HPARD MASTER PLAN

PHASE II : PARK SECTOR PROFILES

The Park Sector Profile describes the physical and demographic characteristic of the Park Sector, provides information on existing parks and facilities and level of service according to park standards and highlights relevant local and regional studies and plans affecting this Park Sector.

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Rice University Shell Center for Sustainability
10 Years of Research, Education and Outreach 2002 - 2012

Rice

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PURPOSE

The Houston Parks and Recreation Department (HPARD) Master Plan Phase II is being prepared as a document that builds upon the previous Parks Master Plans that were completed in 2001 and 2007. These documents have helped to guide growth in the City's parks and recreation system. Since these Parks Master Plans were completed, Houston has experienced both a recession and a subsequent redevelopment boom within the City and its surrounding areas. This astounding rebound has simultaneously been accompanied by a surge in population- since the 1990's the City of Houston has grown from 1.6 million people to 2.1 million people in 2010 (Urban Houston Framework, 2012). The City of Houston is the 4th largest city in the United States and encompasses 656 square miles, or 419,840 acres. Houston is so large that it could fit 9 other major cities from around the United States fit within its geographic boundaries (Figure 2). The entire City of Houston parks system encompasses 370 parks and over 37,859 acres of parkland. With the current inventory of parkland (HPARD, Harris County, and Fort Bend County), as reported by the Trust for Public Land, Houston has almost 23 acres per 1,000 people (the national standard is 20 acres per 1,000 people).

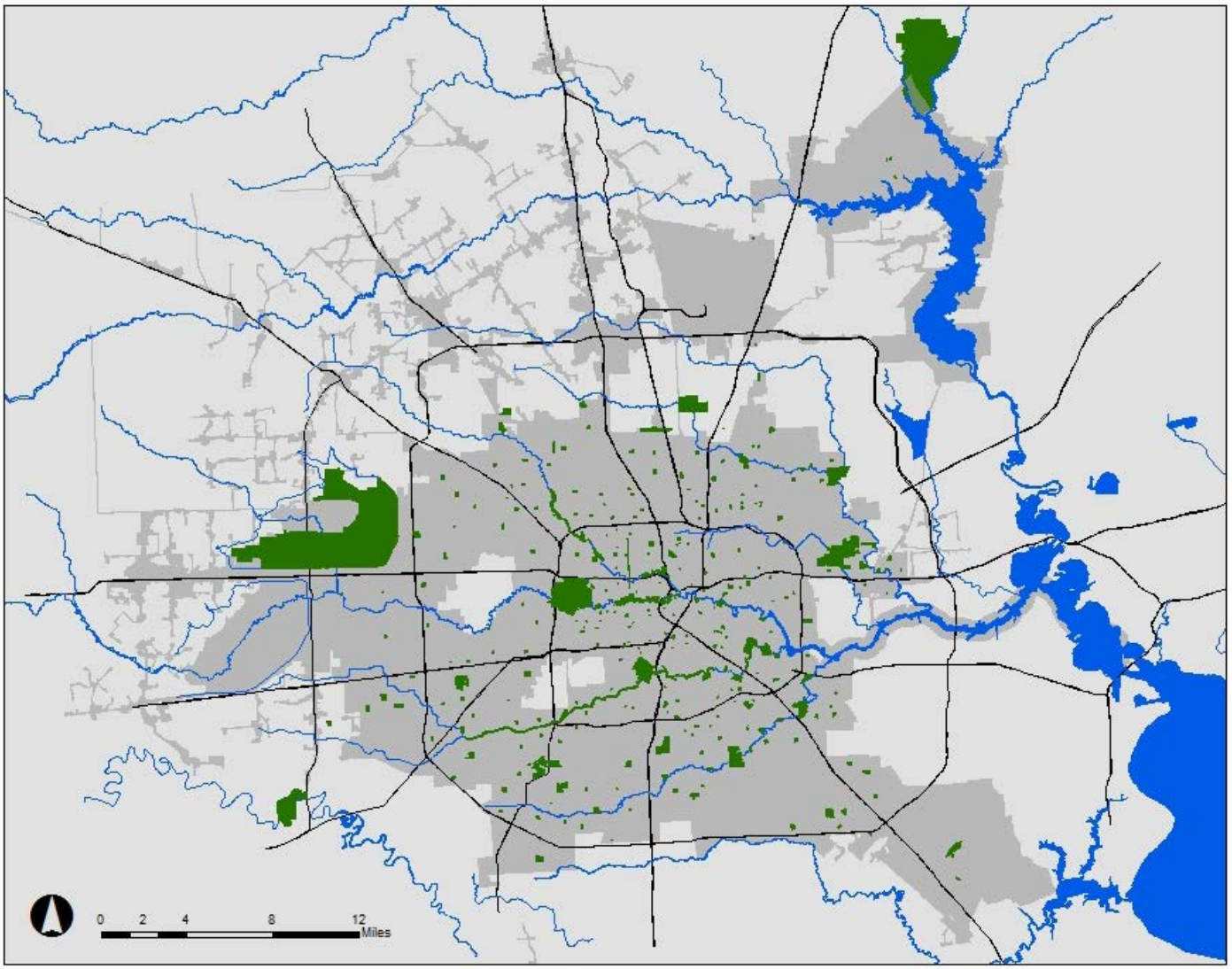


Figure 1: The City of Houston's Parks and Recreation System

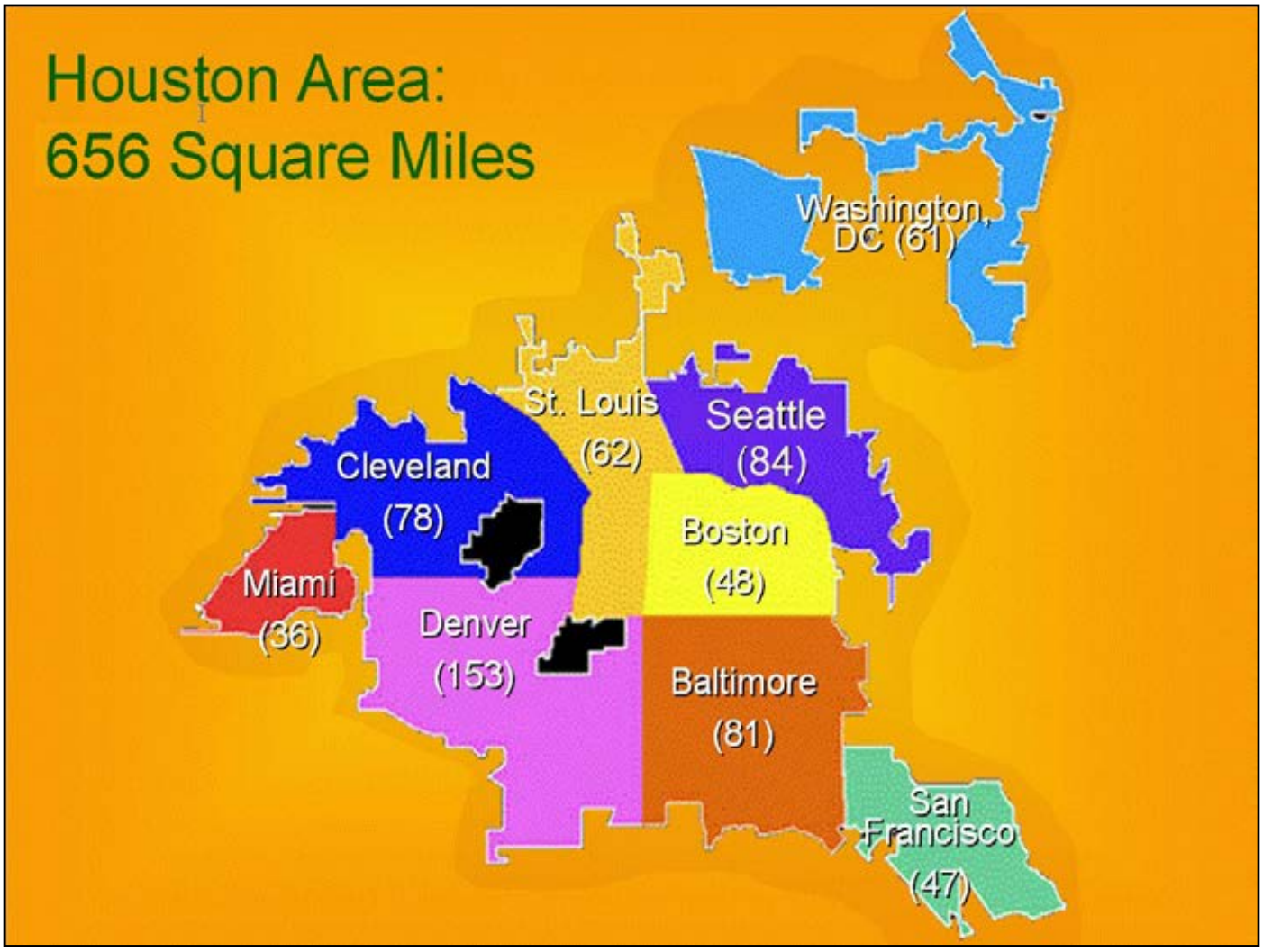


Figure 2: The 9 major cities that fit within Houston's geographic boundaries in square miles

HPARD Park system assets and amenities include the following:

- 61 Community Centers
- 38 Pools
- 23 Water Spraygrounds
- 224 Playgrounds
- 138 Miles of Trails
- 8 Golf Courses
- 5 Disc Golf Courses
- 206 Tennis Courts
- 17 Volleyball Courts
- 62 Outdoor Basketball Courts
- 158 Baseball & Softball Fields
- 90 Soccer Fields
- 9 Dog Parks
- 6 Skate Parks

In 2007, the City of Houston (City of Houston) passed the Parks and Open Space Ordinance as a part of Chapter 42: Subdivisions, Developments and Platting Ordinance. This ordinance divided the City of Houston into 21 Park Sectors (Figure 3). The Park Sectors are defined by freeways and the city limits, not by political boundaries such as Council Districts. Each Park Sector contains multiple Council Districts (Table 1). The Parks and Open Space Ordinance applies to all residential (single-family or apartment) developments within the City limits and gives developers the option to either dedicate land for private or public park purposes or pay a fee-in-lieu of dedication. Chapter 42 of the City of Houston's land development ordinance outlines the standards that are used in evaluating private parkland dedication. The fee-in-lieu of dedication must be used for improvement in existing parks or acquisition of land for park purposes within the same Park Sector as the new development.

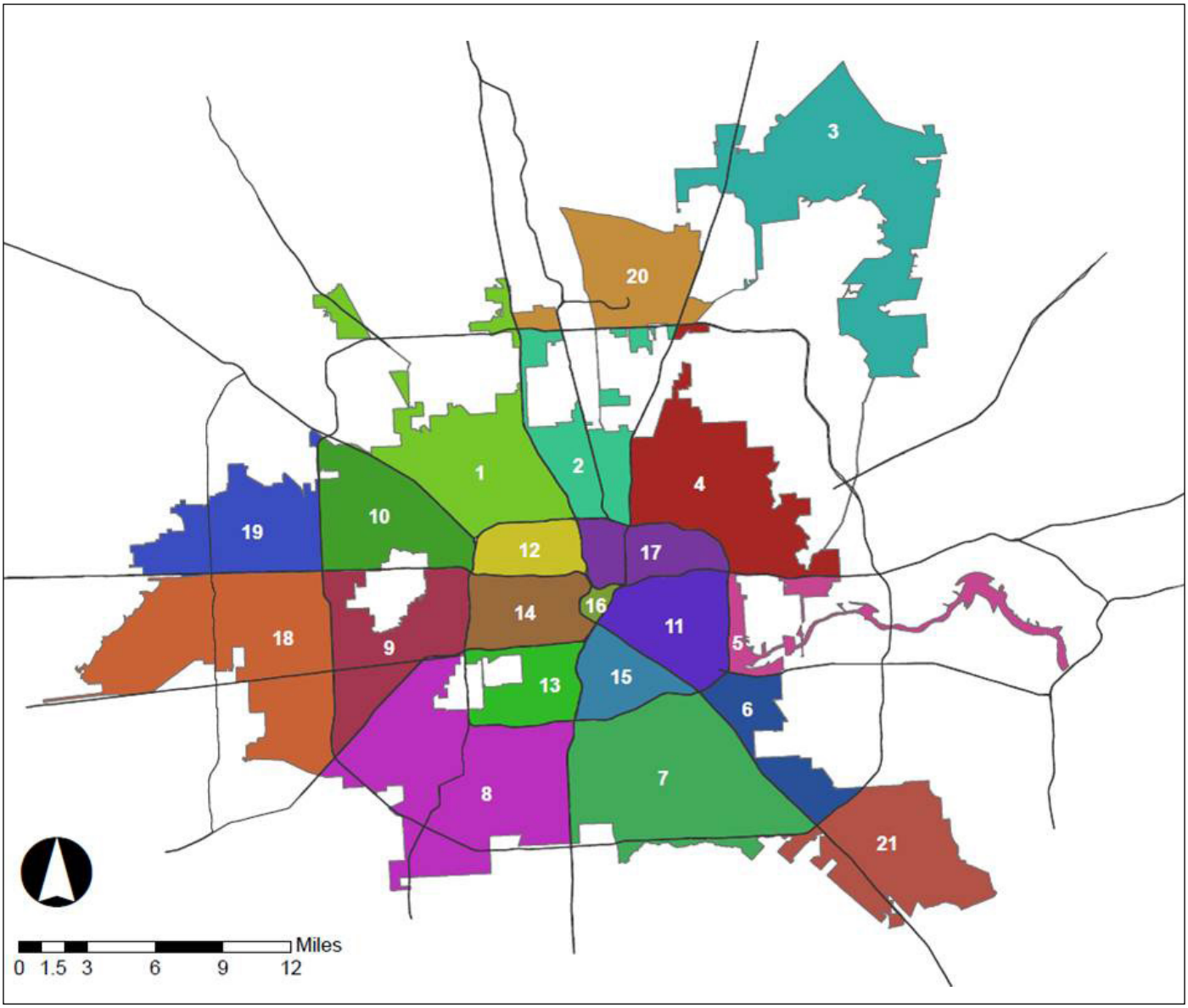


Figure 3: The City of Houston Park Sector Map

District	Park Sectors
A	1,10,19
B	1,2,4,11,17,20
C	1,8,12,13,14,
D	7,8,13,14,15,21
E	3,5,6,21
F	9,18
G	9,13, 14,18
H	1,2,4,11,12,14,16,17
I	4,5,6,7,11,15,16
J	8,9,18
K	8,13

Table 1: Parks and Sectors and their respective Council Districts

With this remarkable rate of population growth and development and the new policy tools available, an updated evaluation of the City of Houston's park and recreation system is needed to efficiently and effectively guide future development and growth. This plan identifies, assesses, and prioritizes park and recreational facility and land needs by Park Sector. This plan builds upon the Parks Master Plan from 2007 and utilizes the same categorizations and many of the same assumptions from this previous plan. However, when the next Master Plan is revisited in 5-10 years, these standards may be revisited and revised. The HPARD system is delineated by Park Sector to analyze the City of Houston by smaller geographic areas in order to help guide amenity development and land acquisition priorities by Park Sector for the next 5-10 years. These recommendations will also help dictate the expenditure of fees acquired through the Parks and Open Space Ordinance as well as future bond elections to fund the highest priorities by Park Sector.

GOALS

The goals of this Parks Master Plan build upon the previous "Big Moves" and goals of the 2007 Parks and Recreation Master Plan Update:

To Create Equity and Balance in the System- This Parks Master Plan utilizes a standard that analyzes parkland acreage per thousand people by Park Sector. Parks are categorized as: Pocket Parks (less than 1 acre), Neighborhood Parks (1-15 acres), Community Parks (16-150 acres), Regional Parks (150+ acres), or Linear Parks (greenways of open space for pedestrians and bicyclists). Each of these categories has different standards as to how many acres of parkland are needed per thousand people with the exception of Linear Parks. Linear Parks tend to be located along bayous or other features that traverse multiple Park Sectors and provide access to a diverse population throughout the City. Like Regional Parks, the parkland acreage standards are not applied to Linear Parks because they serve multiple Park Sectors and a broad population. The standards for Pocket, Community, and Neighborhood Parks enable an objective comparison across Park Sectors to determine which areas of the city are lacking parkland acreage based on its current amount of parkland and population. This assessment will help to empirically determine where service gaps exist throughout the city and where land acquisition should be pursued. A similar analysis has been done for amenities in each Park Sector.

Regional Park standards are not considered at the Park Sector level because they serve a larger area. The Regional Park standard from the 2007 Parks and Recreation Master Plan is 8 acres per 1,000 people, (based on the 2010 population). Accounting for HPARD and County Parks, the current level of service for Houston is 16 acres of Regional Park acreage per 1,000 people. Furthermore, the majority of Houstonians are served by Regional Parks within a 5 mile trip (Figure 4). Regional Parks are varied in Houston, which is desirable since we want to offer recreational and passive opportunities that represent the desires of the diverse community in Houston. However, some Regional Parks in Houston offer a higher quality experience than others. Taking into account the recent Master Plan efforts of some of HPARD's Regional Parks like Lake Houston Wilderness Park and Memorial Park, it is timely for HPARD to take a look at all Regional Parks and community needs.

An online survey was conducted in 2014 by HPARD and received approximately 1,800 responses. 89.5% of survey respondents said they would allocate the most money of HPARD's budget to revitalizing existing parks. In some Park Sectors, there are many parks with amenities that need to be replaced. In each Park Sector summary document, the 3-5 parks with greatest need for revitalization and redevelopment are prioritized for redevelopment. In Park Sectors with little development and Park and Open Space funds from the Chapter 42 land development ordinance, bond and Capital Improvement Plan (CIP) funding should be targeted to those parks with the greatest need for replacements and renovations as to create equity throughout the park system for the entire city.

The Trust for Public Land (TPL) created a ParkScore™ for the City of Houston which identified the areas of the city that are not served by a park within a ½ mile or 10 minute walk (Figure 5). The degree of need (red is very high need and orange is high need) is based on population density, households with incomes less than $35,000 a year, and the presence of youth 19 years or younger. The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. The hatched green circles represent a ½ mile service area for privately owned parks. While they may not publicly accessible, these parks nonetheless serve their constituencies in these areas. This information helps to highlight areas of the city that are in need and where land acquisition should be targeted.

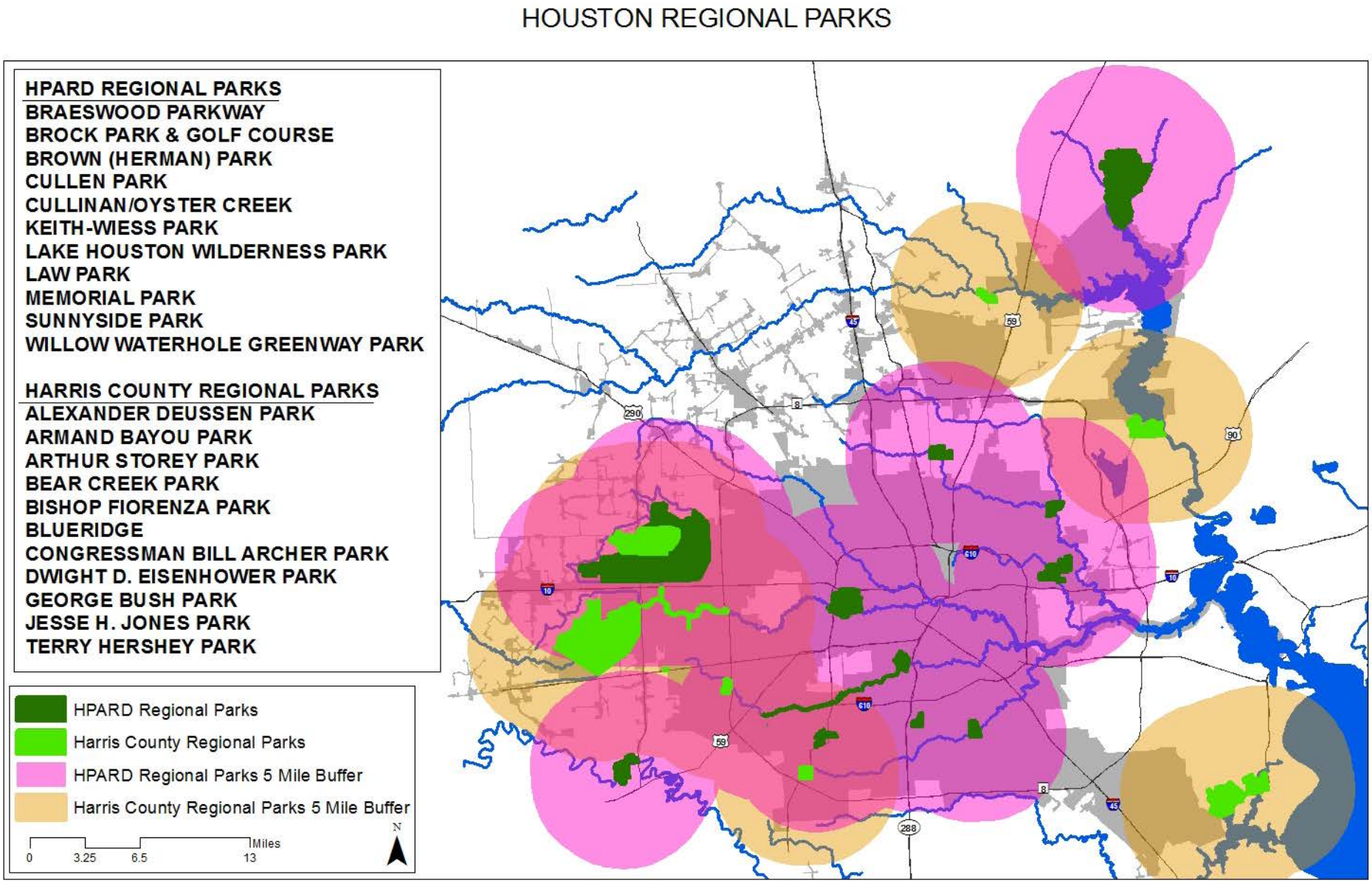


Figure 4: Houston Regional Parks' 5 mile Radii

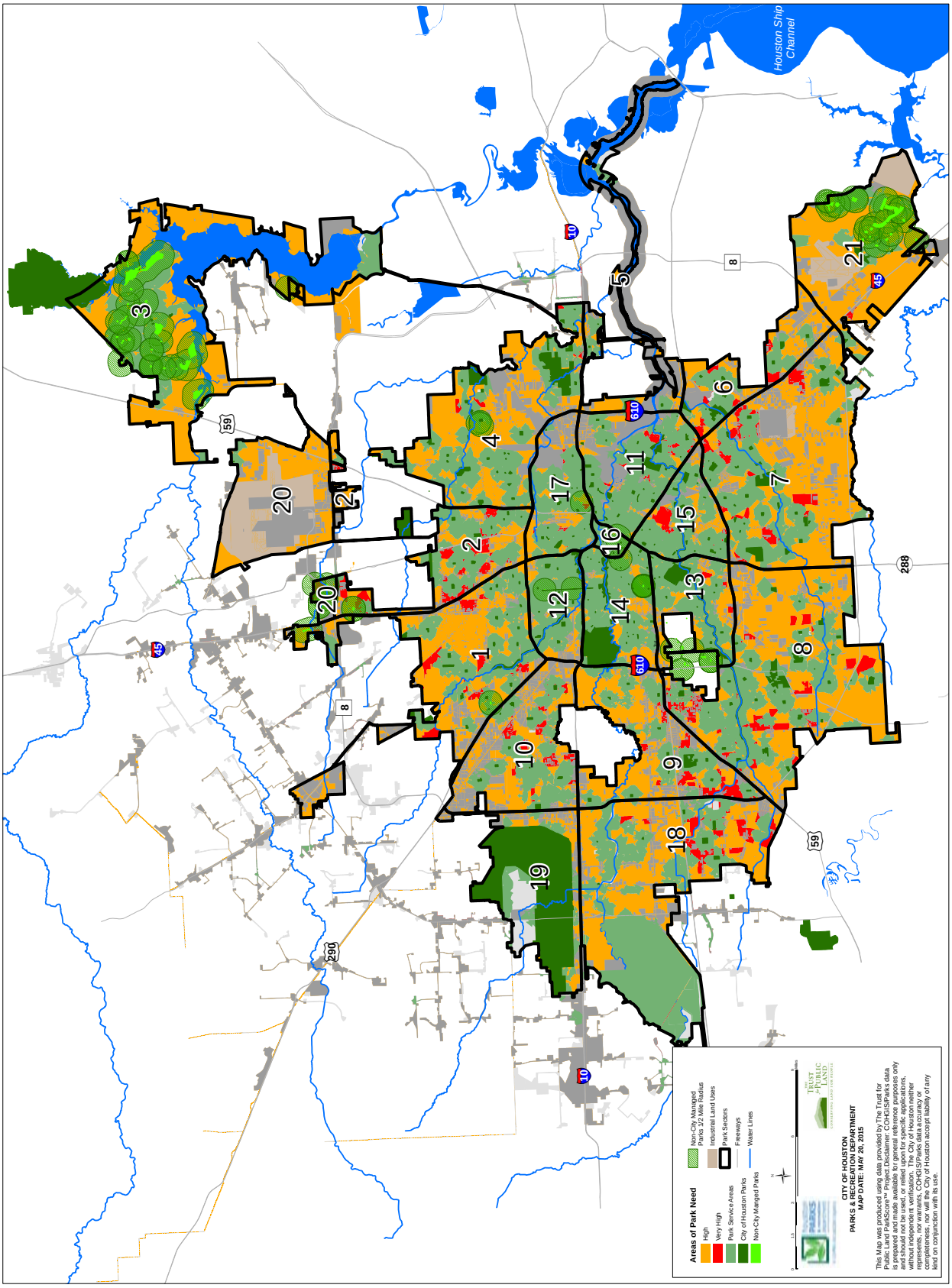


Figure 5: TPL ParkScore™ Service Areas and Park Sector Boundaries

TPL has collaborated with HPARD to create a map of where land acquisition would have the biggest impact and serve the most people. TPL created a map that identified the top 20 sites in the City where land acquisition would have the most benefit for the greatest amount of people (Figure 6). HPARD is using these sites to help guide its land acquisition strategies in these Park Sectors.

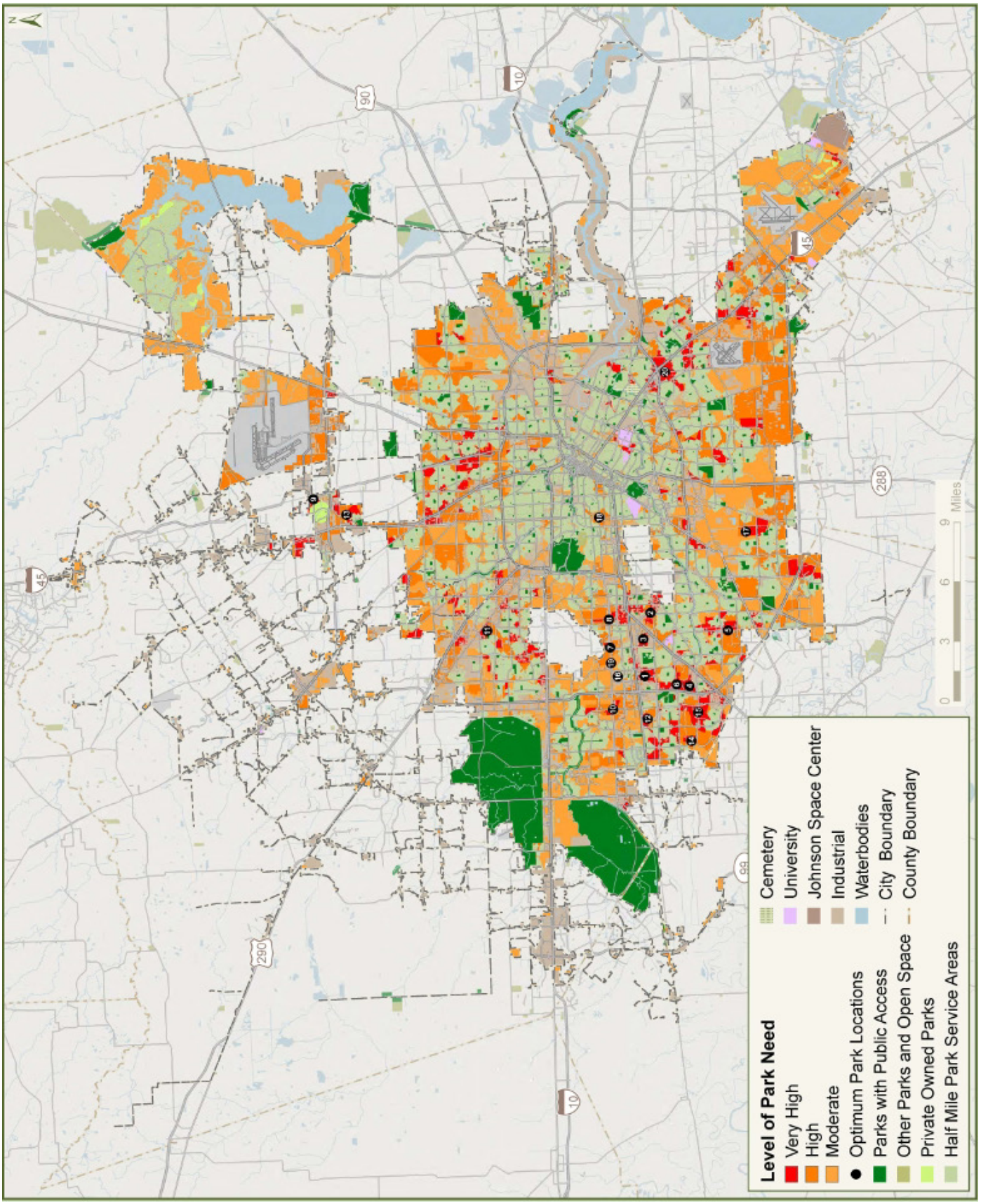


Figure 6: TPL Top 20 sites for land acquisition in the City of Houston

Create Connections- Houston has a world-class system of bayous that run east-west throughout the city that provide needed greenways as well as an excellent off-road system that can be utilized for pedestrians and cyclists. Voters in 2012 approved a $100 million bond, which was matched with a privately funded $105 million, to fund the creation of 80 new miles of trails along 10 major bayous in Houston, for a total of 150 miles of trails that will traverse the city east to west. The creation of these trails has important environmental, health, and equity implications.

These trails will provide parkland throughout Houston that is accessible to diverse segments of the population. They can also provide an outlet for exercise, a means of transportation, and an outlet for excess flood waters. These trails will also help connect many of the parks that are located along the bayous. This Master Plan seeks to compliment these efforts by recommending land acquisition along the bayous to further interconnect the parks and recreation system of Houston.

2014 survey respondents were asked what they thought HPARD's top priority should be; 65% of respondents ranked developing Neighborhood connections to parks or trails as the important prerogative. Creating connections was also an issue that was important in the 2007 Master Plan. To begin to create an interconnected system throughout the entire city, creating trail connections along the bayou must be complemented by other measures. In order to create connections into the bayou system, trails along the utility corridors that mainly run north-south should be explored. Connections from neighborhoods into this developing trail system and the parks along them need to be created as well.

Demonstrate Environmental Leadership- HPARD has collaborated with multiple organizations to partner on projects that will create recreational space for residents as well as educate and showcase environmental stewardship. In 2013, HPARD partnered with over a dozen entities to revitalize Shady Lane Park in a predominantly Latino, low-income Neighborhood with a large population of children. This redevelopment, in part, included the installation of a nature-themed splash pad that integrates educational material for children. This park also abuts Halls Bayou which is prone to frequent flooding; the area next to the park and the bayou was developed by Harris County Flood Control District to serve as a detention basin that will also function as a recreational space when not serving as an overflow catchment for flood water. The revitalization of the park provides environmental benefits and education for the surrounding community. Shady Lane Park is emblematic of the type of project that HPARD needs to pursue into the future.

HPARD is also in the process of identifying natural areas throughout the city-wide system. This effort involves identifying which areas within existing HPARD parks should be recognized for their natural significance to enable development of proper standards of management and protection. An ongoing effort is also being made to catalogue the unique flora and fauna within these areas to inform better stewardship practices.

Provide Equitable Services for all Citizens- As a rapidly expanding city, the demand for aquatic facilities has increased exponentially along with the continued population growth. They not only provide citizens with the access to public pools, but also venues for HPARD to teach swimming and life water saving techniques. Most of 38 existing swimming pools have an average age of 25 or more years. 75% of the existing swimming pools have become obsolete due to the age of the facilities. As repairing these aging facilities has become increasingly costly, natatoriums should be considered as existing swimming pools outlive their useful life. Furthermore, continually repairing aging structures at a certain point only patches the issue for a short amount of time.

Ideally, the City would be divided up into four quadrants: Northeast, Northwest, Southeast, and Southwest. Each location would be a site with access to public transportation to facilitate easy access to by citizens. Each quadrant of the City would have a natatorium.

Respondents to the 2014 HPARD online survey were predominantly high income, non-Hispanic Whites living on the west side of Houston, within or immediately outside the I-610 loop. To obtain a more representative perspective on park improvement preferences, Rice students with the Houston Action Research Team (HART) designed and conducted a survey targeting Black, Hispanic, and low-income park users at parks on the east side of the city. They conducted face-to face interviews with 403 park users at 18 parks in Park Sectors 2, 7 and 15. When survey respondents were given options, their first choice was to clean-up and repair parks; greater connectivity was their second choice. In the 2014 online survey, most respondents prioritized developing Neighborhood connections to parks and trails. HART's examination of the face-to-face survey data suggests that there may be a correlation between the quality of the park at which the interview took place and the desire for connectivity, or a park quality threshold. HART suggests the possibility of a threshold effect: once parks achieve a particular standard of quality, park users will prioritize greater connectivity. The possibility of further research of this park quality threshold to understand the preferences of park users in Houston is being explored with HART.

CITY-WIDE PROFILE

POPULATION AND DEMOGRAPHICS FOR THE CITY OF HOUSTON

The City of Houston's population is projected to increase to 2.9 million by 2040. Houston has become a much more diverse city since the 1990's and is the eighth most diverse region in the nation; the City of Houston is predicted to have a population where 76% of people are of an ethnicity other than Non-Hispanic Whites by 2040 (City of Houston Urban Houston Framework, 2012).

	Houston Number of People 1990	Houston Percent of Total 1990	Houston Number of People 2010	Houston Percent of Total 2010
Total Population	1,631,766	-	2,099,451	-
Hispanic or Latino	450,556	27.6%	919,668	43.8%
Non-Hispanic White	662,766	40.6%	537,901	25.6%
Non-Hispanic Black	448,148	27.5%	485,956	23.1%
Non-Hispanic American-Indian	66,993	4.1%	126,098	6.1%
Non-Hispanic Asian				
Non-Hispanic Hawaiian or Pacific Islander				
Non-Hispanic Some Other Race and two or more races	3,303	0.2%	26,828	1.3%

Table 2: City of Houston Ethnicity (2010 Census & City of Houston Planning and Development Demographic Data)

Only 33% of the population of the City of Houston has an Associate Degree or higher. Many of the Park Sectors fall below this average and have very low levels of educational attainment. Many of these same Park Sectors with low educational attainment also have some of the lowest income levels and poorest health outcomes in the city. As has been documented by TPL, "Studies show that low-income communities of color are disproportionately affected by higher rates of health problems and often have poor access to physical activity settings such as parks, playgrounds, trails, community gardens, and other open spaces" (Park Equity Mapping Supports Advocacy for Parks and Healthier Communities, 2009). Increased recreational programming and improvements such as exercise equipment, trails access points, and fitness centers should be explored for these Park Sectors. Potential partnerships with the Health and Human Services Department (HHSD) should also be pursued to try to increase physical activity levels and improve the health outcomes in these Park Sectors. Many of these Park Sectors have also seen little redevelopment since 2007 when the Parks and Open Space Ordinance was passed. Thus, these Park Sectors have little funding from the ordinance and subsequent new development should be prioritized for funding from the CIP and bond elections to increase equity within the system.

PARK SECTOR	Median Income	No High School Degree
1	$37,578	15.3%
2	$29,259	30.6%
3	$84,714	3.1%
4	$28,410	22.3%
5	$29,875	22.8%
6	$38,717	20.9%
7	$34,711	18.6%
8	$39,142	15.4%
9	$46,539	11.4%
10	$39,127	21.3%
11	$26,942	27.4%
12	$42,375	10.6%
13	$50,650	2.0%
14	$51,918	4.3%
15	$23,445	16.2%
16	$37,139	32.4%
17	$23,204	24.7%
18	$50,741	8.0%
19	$45,457	6.4%
20	$29,148	20.8%
21	$70,948	5.1%

Table 3: City of Houston Median Income and Educational Attainment

Age	City of Houston Population	City of Houston Percent	Program Age Group
0-4 yrs	166,066	8%	8%
5-9yrs	148,843	7%	20%
10-14yrs	135,622	7%	
15-19yrs	140,673	7%	
20-34yrs	539,348	26%	52%
35-44yrs	286,117	14%	
45-54yrs	265,060	13%	
55-64yrs	204,852	10%	19%
65+	192,689	9%	

Table 4: City of Houston Population by Age Group

OVERALL TRENDS BY PARK SECTOR

Density is an important factor in determining park need for an area. In the City of Houston, the Park Sectors that are the densest are 9, 13, and 16. The density of Park Sectors 13 and 16 can partially be accounted for by their relatively small size. Park Sector 9, however, is the third most populous Park Sector in the entire City of Houston. Park Sector 9 is deficient in park amenities, acreage for all types of parks and overall is one of the high need areas for the City of Houston. Land acquisition should be pursued in this Park Sector as it is an underserved, dense area that is continuing to see development and growth. Park Sector 8 contains the greatest percent of the population of the City of Houston. This Park Sector is also an area of high need where parkland acquisition should be pursued.

Park Sectors 2, 4, 15 and 17 all have the most concerning health metrics with over 35% of the population Body Mass Index at obesity levels and over 15% of the population with diabetes diagnosed by a professional. Park Sectors 2, 4, 5, 11, and 17 have both the lowest educational attainment and median income of the entire city. Park Sector 15 has second lowest median income in the City of Houston; however, it does not have a correspondingly high rate of citizens without high school degrees. This could be due in part to the presence of two universities in this Park Sector. Students living in this Park Sector likely contribute to the lower median income of this Park Sector but not to the low educational attainment levels.

Park Sectors 1, 2, and 4 have the highest percentage of children and youth of the entire City of Houston. There are also big Pockets of underserved neighborhoods in these Park Sectors. Development of facilities geared toward a younger demographic should be considered to serve these Park Sectors. These Park Sectors also has a very low median household and would benefit greatly from an increased level of public amenities.

Park Sectors 12 and 14, while not the most dense or populous, are areas that are also experiencing accelerated growth in new development. These areas, while not showing tremendous need currently, are densifying and will have a greater need within the next 5-10 years. Park Sectors 11 and 17 are also both areas that will likely redevelop in the next 10-15 years. While they have not been redeveloping at the pace of Sectors 12 and 14, their proximity to downtown and the presence of the new light rail routes through both Park Sectors signifies that these areas will likely be sites for future redevelopment efforts. Before land in these areas becomes too expensive, parkland acquisition should be pursued to anticipate the very probable densification that will occur.

Park Sectors 3 and 21 are areas that are seemingly in great need of more parks. However, both of these Park Sectors are very affluent (they are the Park Sectors with the highest median household income in the City of Houston) and have neighborhoods that maintain the private parks in their subdivisions. Taking these private parks into account, these communities are relatively well served in regard to parkland.

Park Sector 4 has low density and therefore, the parkland acreage standard is met. However, there are existing facilities which are developed are over 20 years old and need to be replaced.

An amendment to Chapter 42 extended the rules to allow for smaller lots size beyond I-610 to the city limits and it will have an effect on how the city will develop in the next 5 to 10 years. These rules took effect in 2015 and alter patterns of growth in some Park Sectors. Changes could accelerate growth in some Park Sectors that have land available closer to the core and/or decelerating growth in those Park Sectors inside the I-610 loop where land is too expensive. Building permit data will continue to be analyzed to determine how these changes affect growth per Park Sector. Therefore priorities may need to change in individual Park Sectors as the effects of this ordinance amendment take place.

PRIORITIES

Six priorities have been identified for each Park Sector and ranked based on the specific assessment done per Park Sector using the Trust for Public Land ParkScore™ map, the standard-based needs assessment for land and amenities, and the public input received. The priorities are as follows:

1. Acquire new parkland
2. Revitalize existing parks
3. Develop Neighborhood connections to parks and trails
4. Develop partnerships with the school system and other entities
5. Preserve environmentally sensitive areas
6. Develop new park facilities

There are some Park Sectors in which the number of facilities may meet the current population needs, however, because of the age of the facilities, the renovation of these facilities should be a priority. In some cases, these are the same Park Sectors where there is no development occurring and no Management Districts or Tax Increment Reinvestment Zones (TIRZs) exist in the area. As mentioned earlier, to create equity and balance in the system, bond funds should be prioritized to be used in these areas. There are several non-profits and friends groups which dedicate their resources to funding improvements and focus on stewardship of parks in the city. This is a model that exists because of the grass root efforts of citizens. It is successful at the Regional Park level such as Memorial Park and the Hermann Park Conservancies as well as smaller scale parks such as Friends of Mandell Park or Friends of MacGregor Park. This model is effective and should continue to be supported and replicated.

This assessment by Park Sector allows for easier identification of priorities and partners depending on the needs of each area. In areas of the city where health trends are concerning, partnerships with the Health of Houston and Human Services Department and the Harris County Public Health and Environmental Services should be a priority. These same areas are also where the income levels are lowest and Community Development Block Grant (CDBG) program funds through the Housing and Community Development Department may be pursued. These Park Sectors should also be prioritized to receive bond funds for capital improvements.

In addition, there are HISD schools not participating in the SPARK School Park Program in areas where there are a large number of children and a very high or high need for parkland. In schools where there is potential to improve and utilize school grounds as parks after school and on the weekends, partnerships should be pursued with HISD and the SPARK School Program.

In other Park Sectors where there is a need for land for current or future demand, acquisition should be aggressively pursued and leveraged with partnerships and funding from existing Management Districts, Tax Increment Reinvestment Zones (TIRZ), Texas Parks and Wildlife Department, the Trust for Public Land and the development fees from the Open Space Ordinance.

Park Land acquisition will be ranked higher where there are opportunities to expand existing parks where feasible. Also, areas where land will have most impact for equity (density, income and children) determined by using TPL ParkScore™ assessment tool will be a priority. Additional analysis needs to be integrated into the TPL ParkScore™process to assess the need of the senior population where certain Park Sectors have been shown through demographic analysis to have a high concentration of seniors. Identifying where the highest needs are in Park Sectors where funds have been paid and also focusing non-Park Sector funding to areas where investment and development are lagging behind are key strategies for HPARD.

Finally, as more green infrastructure and facilities are added to the park system, the maintenance of these facilities needs to be assessed and funded from the beginning of a project. As of 2013, HPARD spent $31 per resident on park maintenance according to the 2014 TPL report. On average, cities across the nation spend $61 dollars per resident. The cost for the current and projected population, if HPARD were to spend the national average maintenance cost, has been included for each Park Sector.

HPARD continues to view park and trail infrastructure as an essential part of the economic development of the city and the investment in outdoor recreational opportunities as providing immediate economic returns to the city. An effort to quantify these benefits and provide a value to protecting environmental and cultural resources, as well as developing new recreational facilities, should be part of future efforts. The availability of jobs and economic success in the region has brought young talent to the city, but in order to thrive and retain the current residents and attract new citizens, HPARD and the City of Houston have to focus on maintaining and improving the quality of life for all parts of the City and all citizens.

IMPLEMENTATION

SHORT TERM (2015-2016)

- Identify schools in areas of need that are not part of the SPARK School Park program where there may be recreational space within these schools that can be made publicly accessible for underserved areas. Explore interest from the SPARK School Park Program and Houston Independent School District (HISD) to pursue in this effort.
- Continue to acquire parkland where funding is available in areas identified as having park need.
- Improve fund leveraging mechanisms to acquire land utilizing Management Districts and TIRZ funding, where there is interest.
- Identify land along bayous and utility easements in partnership with the City of Houston's Planning and Development Department's Bikeway Master Plan that would improve accessibility of neighborhoods to future trail systems.
- Acquire a permanent license for the TPL ParkScore™ tool to assess the impact of land of potential future land acquisitions.
- Identify areas of high need where there are concentrations of children (0-12) and assess playground access to be able to recommend new playground sites.
- Continue to improve the level of detail of HPARD facilities and amenities for each park in order to produce a publicly accessible on-line interactive map.
- Increase partnerships with organizations to improve health measures and objectives.

MID TERM (2017-2020)

- Measure results of trail investment and park investment in activity, wellness and health outcomes through a survey.
- Conduct a recreation survey and based on public input begin looking at future HPARD programming needs.
- Revisit 5 Park Sectors per year, so that a full update of the Parks Master Plan is completed after 5 years (2020).
- Inventory and assess natural areas for preservation and protection.
- Identify if specific plans are needed for certain specialized amenities (i.e. natatorium, BMX bike facility, or other uncommon amenities).
- Create system-wide level of service maps for different types of major amenities. These maps would identify where there are gaps in service throughout the City. Amenity needs per Park Sector would be assessed to help determine optimal locations for needed amenities.
- Finish build out of BG2020 trails working with Houston Parks Board.

LONG TERM (2020-2025)

- Explore methods to increase the percentage of citizens served by parks within a half mile from 48% to 75% of the population of the City of Houston.
- Explore the feasibility of creating trails along all bayous in the City of Houston with Houston Parks Board.
- Incorporate recreational needs into the next major phase of the Parks Master Plan.

PLAN DEVELOPMENT PROCESS

DATA COLLECTION AND ANALYSES

The analyses conducted for the Parks Master Plan were created through the following methods and sources:

- **Identified existing public, semi-public, and private parks and recreational amenities throughout the City using online research, aerial photography, and site visits.**
- **Reviewed various studies and plans by Park Sector (see Appendix IV).**
- **Created maps in Geographic Information System (GIS) for the following in each Park Sector to create a baseline analysis and understanding of each Park Sector:**
    - Profile maps with all HPARD parks
    - Land use maps created through GIS data from the Harris County Appraisal District (HCAD)
    - System maps of all HPARD and Harris County maps, current and planned trails, bikeways, and light rail tracks
    - Park Service Area maps created with data from the Trust for Public Land ParkScore™ with HCAD land uses underlying areas not served by parks within ½ mile
    - City-wide map of park service areas and areas of park need using data created by the Trust for Public Land ParkScore™

- **Conducted analyses by Park Sector of the following demographic trends:**
  - Ethnic group distributions created with data from the 2010 Census and the City of Houston Planning and Development Department demographic data
  - Age group distributions created with data from the 2011 American Community Survey and the City of Houston Planning and Development Department demographic data
  - Educational attainment levels for the population 25+ years with data from the 2010 Census and the City of Houston Planning and Development Department demographic data
  - Adult health levels with data from the Health of Houston Survey (2010) and the City of Houston Health and Human Services Department

- **Received public input through the following means:**
  - Online survey distributed to City mailing lists and interested citizens who signed up at citywide Capital Improvement Project meetings in 2014 and 2015. There were over 1,800 respondents.
  - The Rice Houston Action Research Team (HART) student team conducted one-on-one surveys with citizens at various parks in Park Sectors that were underrepresented in the online survey to collect additional data. Over 400 surveys were completed by the student team
  - Comments from citizens at the citywide Capital Improvement Project meetings in 2014 and 2015 at a total of 24 meetings
  - Consulted with the Houston Parks Board and the Houston-Galveston Area Council (H-GAC)
  - Attended various community events to publicize the survey and Parks Master Plan to solicit comments
  - Created a Parks Master Plan webpage on the HPARD website with a link to the online survey and a dedicated email address for comments
  - Informational displays were created and placed at City Hall and at all HPARD community centers
  - Media outreach was conducted via TV, radio, Facebook, and Twitter
  - Gave a public presentation of methodology and findings in June 2015. TPL and Rice also presented their contributions to the Parks Master Plan. A 30 day public comment period was given for citizens to provide their input.

- **Used site visits to prioritize by Park Sector to determine which existing parks and amenities in need of replacement.**

- **Created site specific system recommendations and broad recommendations by Park Sector using site visits, data analysis, and public input**

PARK SECTOR 1

PARK SECTOR 1 SUMMARY

PARK SECTOR 1 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and data from The Trust for Public Land ParkScore™ Project), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Acquire new parkland
2. Revitalize existing parks
3. Develop Neighborhood connections to parks and trails
4. Develop partnerships with the school system and other entities
5. Preserve environmentally sensitive areas
6. Develop new park facilities

RECOMMENDATIONS

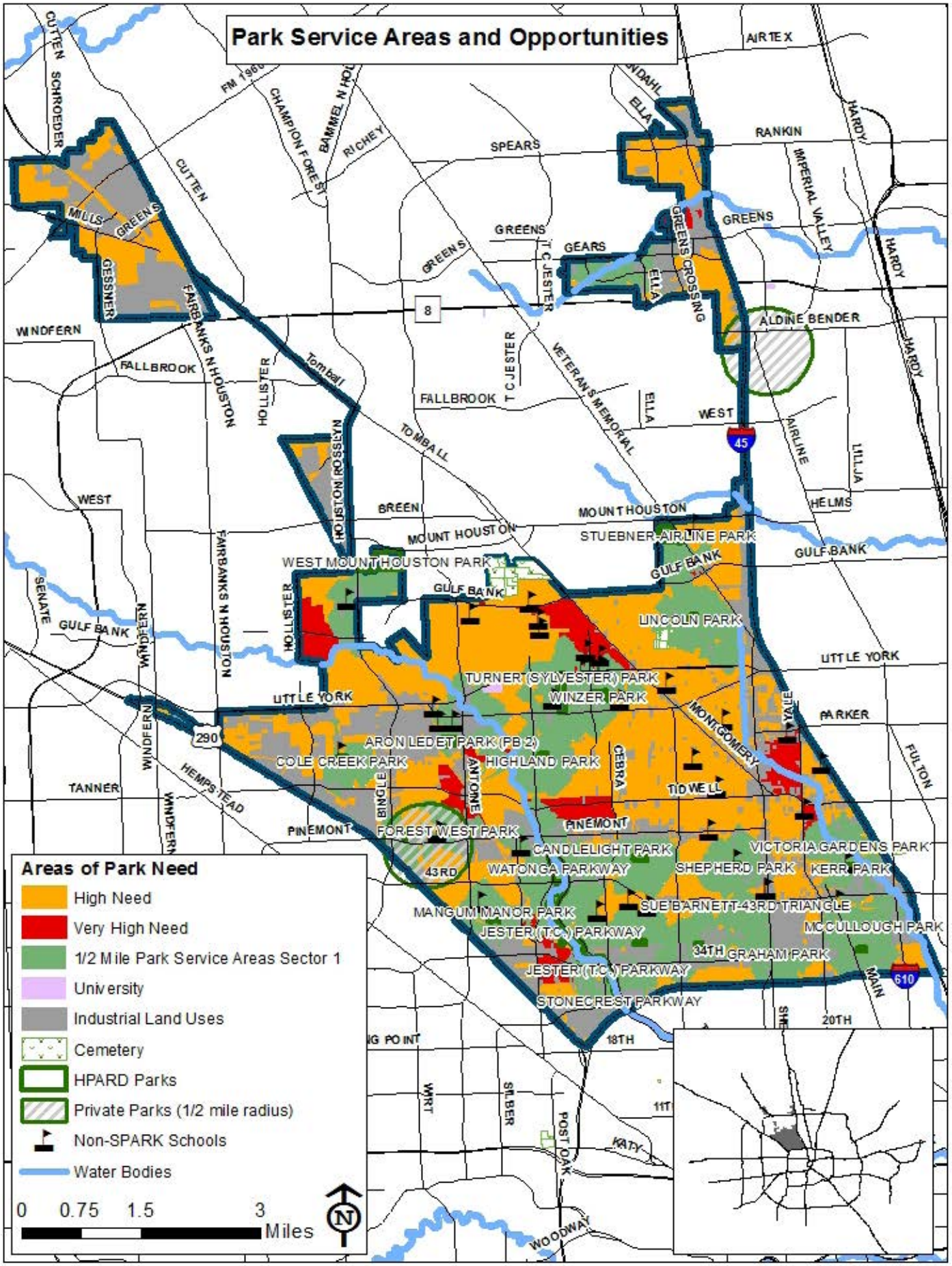
The parks in Park Sector 1 that have the highest need for renovation and/or redevelopment from greatest need to least need are: Victoria Gardens Park, Forest West Park, Watonga Parkway, and T.C. Jester Parkway.

In addition to the existing 12 miles of trails, the Bayou Greenways 2020 (BG2020 Initiative) will add 8.3 miles to the White Oak Bayou trail system which will provide a total of 16 miles of trails on White Oak Bayou, over 3 miles on the MKT trail, and over 7 miles along Buffalo Bayou. Additional on-street and off-street connections to the White Oak Bayou Trail need to be carefully considered to maximize the potential of this public-private partnership investment. Currently, Little White Oak Bayou runs through this Park Sector and is not included in the BG2020 trail development plans. Trail construction could be pursued along this bayou in the future to provide access to Moody Park in Park Sector 17 and connectivity to the METRO light rail.

While many areas closer to I-610 currently have sufficient parkland, as the population increases land acquisition must be pursued to serve the growing number of residents. Development is also increasing in the southern areas of the Park Sector, with some development occurring as far north as Tidwell Road. At the current population, an additional 32 acres of parkland are needed in this Park Sector. There is also a high percentage of undeveloped land in this Park Sector which could be purchased and conserved for future park use. Schools not participating in the SPARK School Park Program (Non-SPARK schools) should be explored as potential future partnerships for park space.

This Park Sector is also deficient in playgrounds, picnic shelters, trails, outdoor basketball courts, volleyball courts, community centers, softball fields, and soccer fields. In the 2014 online survey, the top three priorities of residents in Park Sector 1 when asked what recreational needs existed in their Neighborhood were: hike, bike and walk trails (60%), open space and natural areas (45.5%), and playground areas (43.4%). Other services and amenities that residents asked for in the write-in portion of the survey were: adult volleyball, facilities for tweens and teens, yoga, community garden, programming for kids 0 to 6 year olds, swim lessons, arts and crafts programming, youth nature programs, and fitness programs. The current parks in this Park Sector are not able to support these amenities; their development should be pursued as new land is acquired.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Online Survey, Trust for Public Land


Park Service Areas and Opportunities
Areas of Park Need
High Need
Very High Need
1/2 Mile Park Service Areas Sector 1
University
Industrial Land Uses
Cemetery
HPARD Parks
Private Parks (1/2 mile radius)
Non-SPARK Schools
Water Bodies
0 0.75 1.5 3 Miles
N
AIRTEX
RANKIN
SPEARS
GREENS
GEARS
ALDINE BENDER
WINDFERN
FALLBROOK
TOMBALL
WEST
BREEN
MOUNT HOUSTON
STUEBNER-AIRLINE PARK
WEST MOUNT HOUSTON PARK
GULF BANK
LINCOLN PARK
LITTLE YORK
TURNER (SYLVESTER) PARK
WINZER PARK
PARKER
ARON LEDET PARK (PB 2)
COLE CREEK PARK
HIGHLAND PARK
TIDWELL
TANNER
HEMPSTEAD
PINEMONT
FOREST WEST PARK
CANDLELIGHT PARK
VICTORIA GARDENS PARK
WATONGA PARKWAY
SHEPHERD PARK
KERR PARK
43RD
MANGUM MANOR PARK
SUE BARNETT-43RD TRIANGLE
JESTER (T.C.) PARKWAY
MCCULLOUGH PARK
34TH
GRAHAM PARK
STONECREST PARKWAY
20TH
18TH
KATY
WOODWAY
CUTTEN
SCHROEDER
MILLS
GESSNER
FAIRBANKS N HOUSTON
HOLLISTER
ROSSLYN
SENATE
WINDFERN
CHAMPION FOREST
RICHEY
ELLA
HARDY
IMPERIAL VALLEY
GREENS CROSSING
T C JESTER
VETERANS MEMORIAL
AIRLINE
LILLJA
HELMS
GULF BANK
MONTGOMERY
YALE
FULTON
CEBRA
ANTOINE
BINGLE
WRT
SILBER
POST OAK
FM 1960
BAMMEL N HOU
8
45
290
610

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Poppy Avenue Future Park Site	0	Poppy Avenue	0.29	N/A
Rosslyn Park	6500	Pinemont	0.53	N/A
	Total HPARD Pocket Park Acreage		**0.82**	
Neighborhood Parks				
American Legion Park	3621	Golf Dr.	4.74	N/A
Aron Ledet Park (PB2)	6323	Antoine Dr.	13.44	0.38
Candlelight Park	1520	Candlelight	9.53	0.45
Cole Creek Park	7200	Drowsy Pine	6.97	0.35
Forest West Park	5915	Golden Forest Dr	6.16	0.30
Graham Park	540	West 34th St	2.50	N/A
Highland Park	3316	DeSoto	5.78	N/A
Independence Heights Park	601	East 35th St	3.10	0.31
Kerr Park	4620	Arlington	6.20	N/A
Lincoln Park* (joint maintenance agreement with Harris County)	979	Grenshaw	8.60	N/A
Mangum Manor Park	5235	Saxon	6.82	0.29
McCullough Park	901	E. 40th St	1.30	N/A
Oak Forest Park	2100	Judiway	5.80	N/A
Shepherd Park	4725	Brinkman	7.89	0.25
Stonecrest Parkway	2701	East T.C. Jester	4.66	N/A
Sue Barnett-43rd Triangle	750	43rd St	1.23	N/A
Victoria Gardens Park	4900	Werner	1.87	N/A
West Tidwell Trailhead	4700	West Tidwell	1.43	N/A
Winzer Park	7300	Carver/Dolly Wright	12.03	0.60
Wortham Island Reserve		White Oak Bayou/Tulsa	2.75	N/A
	Total HPARD Neighborhood Park Acreage		**112.80**	
Community Parks				
Alabonson Park	9650	N. Houston Rosslyn	50.21	N/A
Stuebner – Airline Park	9201	Veteran's Memorial Blvd	27.44	0.50
Turner (Sylvester) Park	2800	West Little York	26.01	1.02
West Mount Houston Park	10300	N. Houston-Rosslyn	50.22	N/A
	Total HPARD Community Park Acreage		**153.88**	
Corridor/Linear Parks and Greenways				
Jester (T.C.) Parkway	4201	West T.C. Jester	68.00	1.00
Watonga Parkway	4100	Watonga Blvd	30.00	N/A
	Total HPARD Linear Park Acreage		**98.00**	
	Total HPARD Park Acreage		**365.50**	
	Total HPARD Trail Length			**5.60**

EXISTING COMMUNITY CENTERS AND POOLS

Community Centers and Pool Facilities	Address	Zip Code	Agency Responsible
Candlelight Community Center	1520 Candlelight	77018	HPARD
Highland Community Center	3316 DeSoto	77091	HPARD
Independence Heights Community Center and Pool	603 East 35th	77022	HPARD
Lincoln Community Center and Pool	979 Grenshaw	77007	HPARD
Jester (T.C.) Park Pool	4201 West T.C. Jester	77018	HPARD
Oak Forest Park Pool	2100 Judiway	77018	HPARD

PARK SERVICE AREAS

The Park Service Areas map was produced using data provided by the Trust for Public Land ParkScore™ Project to identify areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger).

The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Approximately 50% of the area in this Park Sector is in need of parkland accessible within a ½ mile, as compared to the 45% of the population of the City of Houston who need park access. Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains 370 acres of parkland (Harris County, HPARD and other providers). Of the 24,739 acres in this Park Sector, 1.5% of this acreage is parkland.
- There are approximately 150,000 residents. Over 34% of the population is African American (higher than the 23% in the City of Houston).
- The Health of Houston Survey 2010 shows that 34% of the population is obese compared to 31% for the City of Houston as whole.
- An additional 32 acres of parkland are needed in this Park Sector. The map on page 3 shows high need in the north and central portion of the Park Sector. This is based on the current population (2010 US Census) of the Park Sector and needs assessment completed for Pocket, Neighborhood and Community parks (number of acres per 1,000 people).
- H-GAC population projections estimate that this area will add over 50,000 residents by 2040. To meet the estimated population, a total of 133 acres of parkland will be needed.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK School Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population data. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	37	15	30	12	15	3	1	1	5	4	2	9	5	15
2015 Existing	23	7	18*	9	15	1	1	1	4	4	2	9	4	0
2015 Needed	14	8	12	3	-	2	-	-	1	-	-	-	1	15
2040 Needed	13	5	10	4	5	1	1	1	2	1	1	2	2	5

* This number includes miles of trails currently planned along White Oak Bayou to Beltway 8 under the Bayou Greenways 2020 (BG2020 Initiative).

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.

2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.

3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.

4. Annual Operation and Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$40,000,000	32 Acres- $5,000,000	$26,000,000	$9,000,000
2040	$52,000,000	101 Acres- $15,000,000	$80,000,000	$3,000,000
TOTAL 2040	$92,000,000	133 Acres- $20,000,000	$106,000,000	$12,000,000

PARK SECTOR PROFILE 1

LOCATION AND POLITICAL BOUNDARIES

Park Sector 1 is located east of US-290, north of IH-610, west of IH-45, and north of Beltway 8.
Park Sector Size: 24,738.8 acres or 38.7 square miles
Population: 148,999 people, Density: 3,870 people/sq mi.

Political Boundaries within Park Sector 1:

- Council Districts: A, B, C, and H
- Super neighborhoods contained in this Park Sector: Fairbanks/Northwest Crossing, Greater Inwood, Acres Home, Hidden Valley, Central Northwest, Lazybrook/Timbergrove, Independence Heights, Northside/Northline, Greater Greenspoint, Willowbrook
- TIRZ: Greenspoint
- Management Districts: Near Northwest, Greater Northside, and Greater Greenspoint

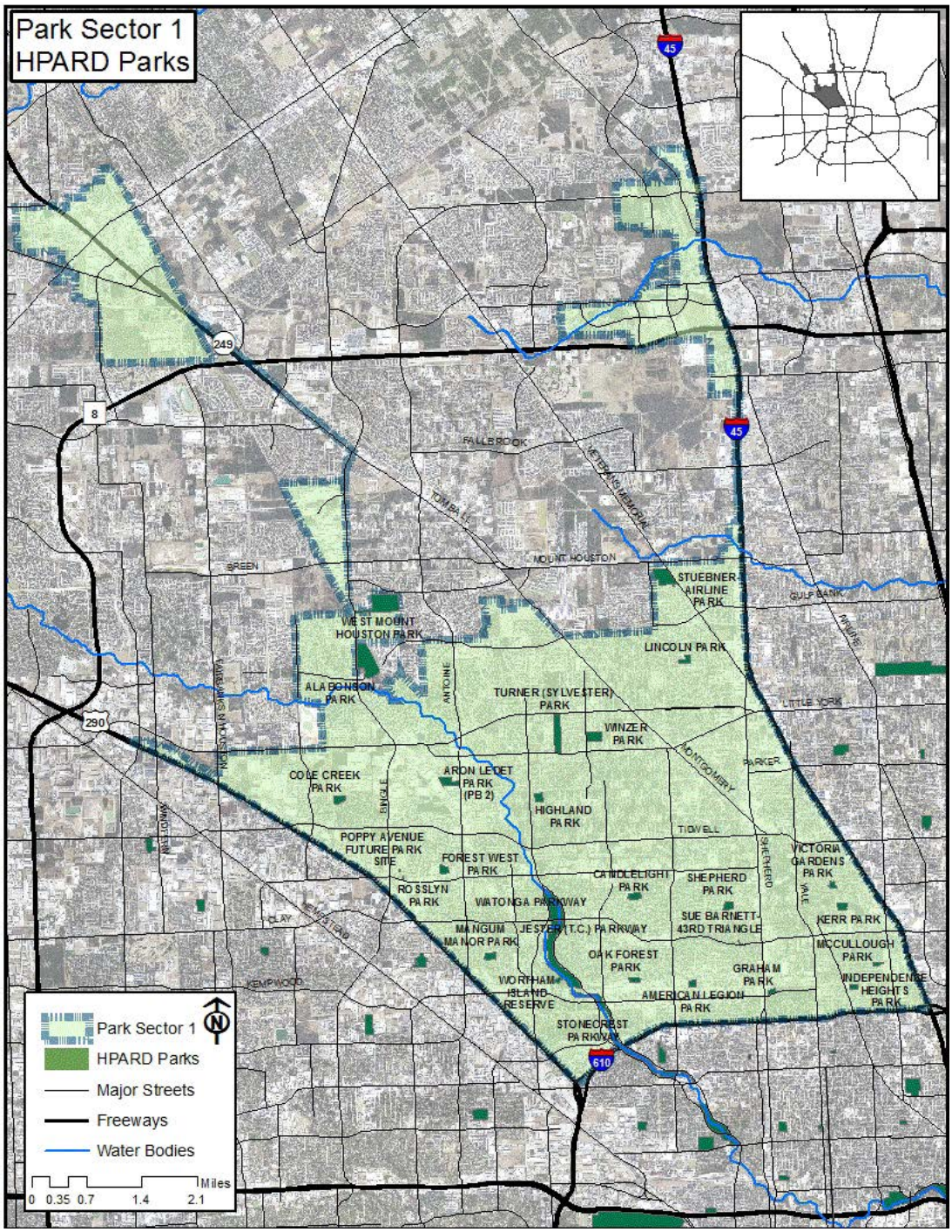


FIGURE 1. PARK SECTOR 1 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 1 Population	Park Sector 1 Percent of Total	Houston Population	Houston Percent of Total
Total Population	148,999	-	2,119,831	-
Hispanic or Latino	61,603	41.3%	919,668	43.8%
Non-Hispanic White	31,550	21.2%	537,901	25.6%
Non-Hispanic Black	51,192	34.4%	485,956	23.1%
Non-Hispanic American-Indian	284	0.2%	126,098	6.1%
Non-Hispanic Asian	2,777	1.9%		
Non-Hispanic Hawaiian or Pacific Islander	34	0.0%		
Non-Hispanic Some Other Race	1,559	1.0%	26,828	1.3%

TABLE 1. PARK SECTOR 1 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains 7% of the population of Houston. The majority (41.3%) of residents are Hispanic/Latinos, followed by Non-Hispanic Blacks (34.4%), Non-Hispanic Whites (21.2%), and Non-Hispanic Asians (1.9%). Most of the population lives along the freeways that comprise the boundaries of the Park Sector. The least dense areas in the Park Sector are the areas north of I- 610, while the farther north areas closer to Beltway 8 are more densely populated.

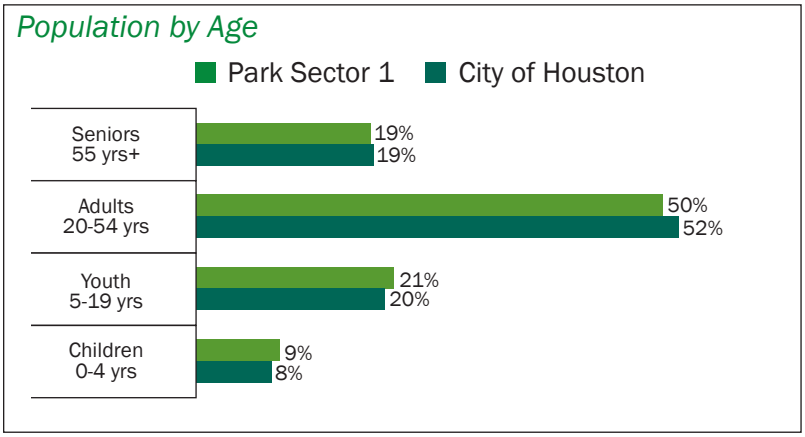


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 1 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that the percent of population under 19 is slightly higher (30%) than that of the rest of the city (28%). Further breakdown of the age groups, as shown in Figure 2., reveals that the percent of adults 20-54 yrs (50%) is slightly lower than the rest of the City of Houston (52%). However, the distribution of age groups in this Park Sector generally mirrors the same pattern as the entire City of Houston. These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 1 Population	PS 1 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	13,140	9%	9%	166,066	8%	8%
Youth	5-9 yrs	11,152	7%	21%	148,843	7%	21%
	10-14 yrs	10,210	7%		135,622	7%	
	15-19 yrs	10,333	7%		140,673	7%	
Adults	20-34 yrs	35,332	23%	50%	539,348	26%	52%
	35-44 yrs	20,521	14%		286,117	14%	
	45-54 yrs	19,926	13%		265,060	13%	
Senior	55-64 yrs	15,434	10%	20%	204,852	10%	19%
	65 yrs +	14,566	10%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 1 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 65,777 housing units in this Park Sector. The percent of vacant housing in Park Sector 1 (15.4%) is higher as compared to the vacancy rates for the entire city (12.3%). Home ownership for this Park Sector (41.4%) is slightly higher than that of the City of Houston (39.7%) and the share of renters is lower (43.1%) than the City's as a whole (47.1%).

Income

The median household income for this Park Sector ($37,578) is significantly lower than that of the City of Houston ($48,322). Sixty-two (62%), or 34,965 of the households, in this area have an income below the Houston median household income. According to the City of Houston Housing and Community Development data (low moderate income derived from 2000 Census as per federal regulations) 56% of the population is low or moderate income, therefore, this area may qualify for Community Development Block Grant (CDBG) funding.

Educational Attainment

Within Park Sector 1, the percent (18%) of individuals 25+ years of age with a Bachelor's degree or above is lower than the relative percent for the entire City of Houston (28%). Conversely, the percentage of those within this Park Sector with a high school degree (30%) is higher than the same population for the City of Houston (23%). The percent of individuals 25+ years without a high school or GED for Park Sector 1 (28%) is slightly higher than that of the entire city (25%).

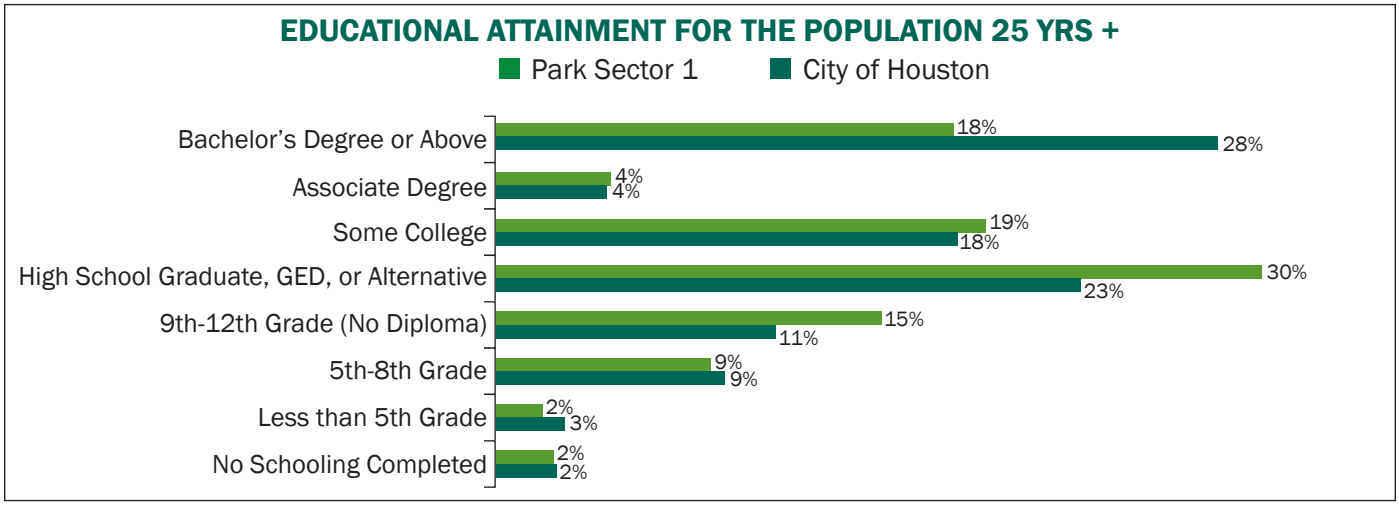


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 33.9% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that 12.5% of the adult population received a diagnosis of diabetes by a professional, which is just above the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that over 34% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is slightly higher than that of the entire city (32%).

The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%. Finally, the survey shows that 17.6% of the population in this Park Sector does not engage in moderate physical activity at all, which is lower than the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

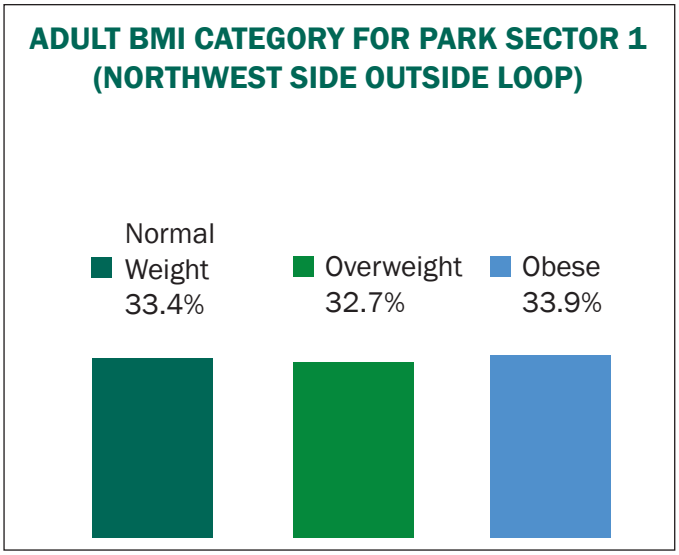


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	17.60
1	5.30
2	12.80
3	17.80
4	12.00
5	10.30
6	2.20
7	22.00

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	34,268	68.10%	7,157	35.50%
Multi-Family	2,826	5.60%	1,216	6.00%
Commercial	1,244	2.50%	1,696	8.40%
Office	187	0.40%	477	2.40%
Industrial	1,041	2.10%	2,479	12.30%
Public & Institutional	1,330	2.60%	1,808	9.00%
Transportation	424	0.80%	530	2.60%
Parks & Open Space	715	1.40%	843	4.20%
Undeveloped	8,062	16.00%	3,435	17.00%
Agriculture Production	104	0.20%	533	2.60%
TOTAL	50,315	100%	20,174	100%

TABLE 4. LAND USE BY DESCRIPTION (2013 HCAD)

In this Park Sector about 74% of the parcels and 42% of the land is residential, with the majority being single-family or multi-family. This Park Sector has a significant portion of undeveloped acreage (17%), mostly east of White Oak Bayou and north of Tidwell. Industrial (9%) and commercial (8.4%) land uses occupy an equivalent acreage in this Park Sector.

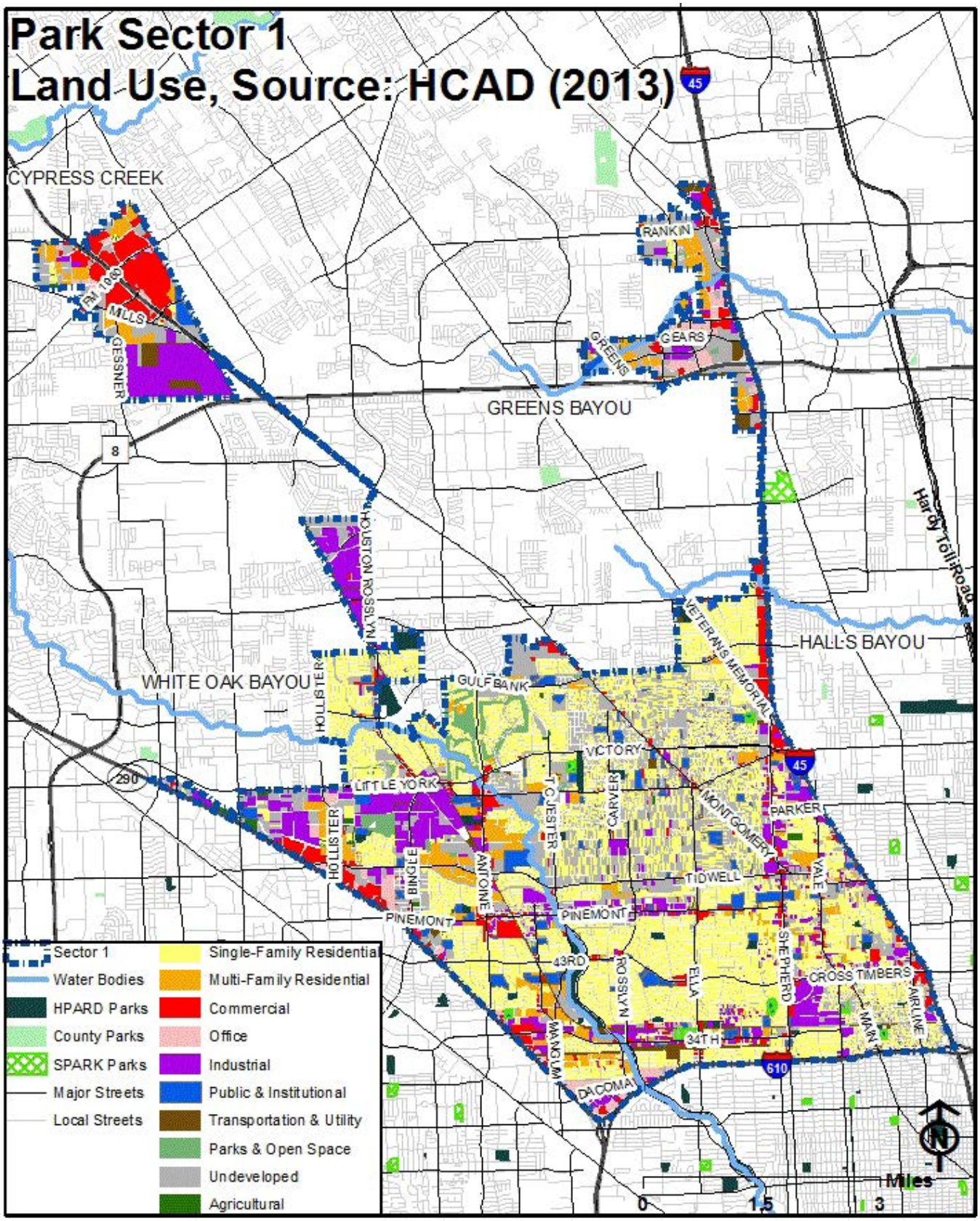


FIGURE 5. PARK SECTOR 1 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

The Houston Parks and Recreation Department operates 28 parks in the area accounting for 365.5 acres of parkland. Chelsea Senior Homes dedicated 1.65 acres of private parkland to serve their residents. While this park is not publicly accessible, it still serves the senior population of this development. In addition, the City of Houston owns open space north of Little York and east of White Oak Bayou. Harris County owns and manages part of Lincoln Park according to an inter-local agreement between the City of Houston and Harris County.

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Poppy Avenue Future Park Site	0	Poppy Avenue	0.29	N/A
Rosslyn Park	6500	Pinemont	0.53	N/A
Total HPARD Pocket Park Acreage			**0.82**	
Neighborhood Parks				
American Legion Park	3621	Golf Dr.	4.74	N/A
Aron Ledet Park (PB2)	6323	Antoine Dr.	13.44	0.38
Candlelight Park	1520	Candlelight	9.53	0.45
Cole Creek Park	7200	Drowsy Pine	6.97	0.35
Forest West Park	5915	Golden Forest Dr	6.16	0.30
Graham Park	540	West 34th St	2.50	N/A
Highland Park	3316	DeSoto	5.78	N/A
Independence Heights Park	601	East 35th St	3.10	0.31
Kerr Park	4620	Arlington	6.20	N/A
Lincoln Park* (joint maintenance agreement with Harris County)	979	Grenshaw	8.60	N/A
Mangum Manor Park	5235	Saxon	6.82	0.29
McCullough Park	901	E. 40th St	1.30	N/A
Oak Forest Park	2100	Judiway	5.80	N/A
Shepherd Park	4725	Brinkman	7.89	0.25
Stonecrest Parkway	2701	East T.C. Jester	4.66	N/A
Sue Barnett-43rd Triangle	750	43rd St	1.23	N/A
Victoria Gardens Park	4900	Werner	1.87	N/A
West Tidwell Trailhead	4700	West Tidwell	1.43	N/A
Winzer Park	7300	Carver/Dolly Wright	12.03	0.60
Wortham Island Reserve		White Oak Bayou/Tulsa	2.75	N/A
Total HPARD Neighborhood Park Acreage			**112.80**	
Community Parks				
Alabonson Park	9650	N. Houston Rosslyn	50.21	N/A
Stuebner – Airline Park	9201	Veteran's Memorial Blvd	27.44	0.50
Turner (Sylvester) Park	2800	West Little York	26.01	1.02
West Mount Houston Park	10300	N. Houston-Rosslyn	50.22	N/A
Total HPARD Community Park Acreage			**153.88**	
Corridor/Linear Parks and Greenways				
Jester (T.C.) Parkway	4201	West T.C. Jester	68	1.00
Watonga Parkway	4100	Watonga Blvd	30	N/A
Total HPARD Linear Park Acreage			**98.0**	
	Total HPARD Park Acreage		**365.5**	
	Total HPARD Trail Length			**5.6**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 1

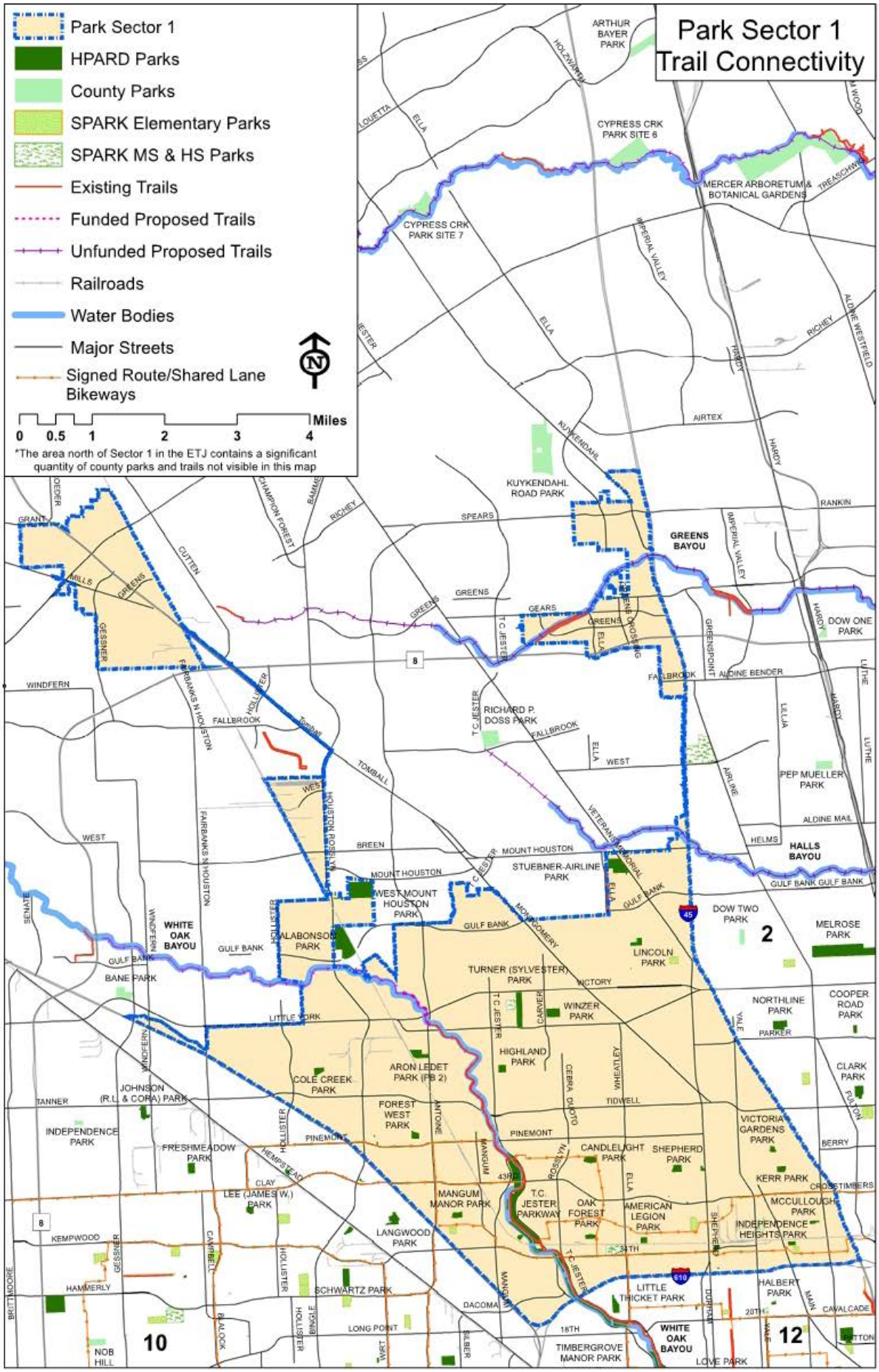


FIGURE 6. PARK SECTOR 1 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, TXDOT BIKE/PED BRIDGES AND LIGHT RAIL

Currently, Houston Parks and Recreation Department maintains 5.6 miles of trails inside parks and 5.6 miles of trail along White Oak Bayou. In addition, there are 0.64 miles of trails inside SPARK Parks that are accessible to the public for a total of 11.8 miles. Through the TIGER grant the City of Houston will be building a 0.75 mile trail connection from Antoine Road to Alabonson Road along White Oak Bayou in this Park Sector. The trail along T.C. Jester (currently closed for construction under IH-610) will connect to the MKT trail along 11th Street once the other TIGER funded connection is completed in Park Sector 12. In addition, the Bayou Greenways 2020 initiative proposes to extend the White Oak Bayou Trail northwest of Alabonson Road to Beltway 8 which would add 5.7 miles to the White Oak Bayou trail system. Once the connections are made south of this Park Sector, residents would be able to travel to Downtown to different destinations including universities and the light rail. With these connections, residents would have access to 16 miles of trails on White Oak Bayou, 3.4 miles on the MKT trail and 7 miles along Buffalo Bayou.

EXISTING PARK FACILITIES

County Parks and Trails

Harris County Precinct 1 shares maintenance responsibility of Lincoln Park facilities with HPARD. Other than its maintenance of Lincoln Park's facilities and acreage, Harris County does not own or maintain any other land used for park purposes in this Park Sector. The Harris County Flood Control District owns land along the bayous and has an agreement with the City of Houston for maintenance of some of these areas along trails.

County Park				
Facility Name	Address	Street	Total Acres	Trail Length
Lincoln Park* (inter-local agreement with HPARD)	979	Grenshaw	8.6	0.50
Total HC Park Acreage			**8.6**	
Total HC Trail Length				**0.50**

TABLE 6. TRAILS INTERNAL TO COUNTY PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR

SPARK Parks

There are 5 Elementary Schools and 2 High Schools participating in the SPARK Program providing access to park space and a variety of amenities to the public.

SPARK Parks				
Facility Name	**Address**	**Street**	**Total Acres**	**Amenities**
Booker T. Washington High School	119	East 39th Street	3.14	0.26 mi Trail, Multi-Purpose Field
Burrus Elementary School	701	33rd Street	4.99	Playground
Garden Oaks Elementary School	901	Sue Barnett Dr	9.81	Playground
Harris Academy	3130	Holder Forest Dr	10.36	0.12 mi Trail, Playground, Swing Set
Osborne Elementary School	800	Ringold Street	7.26	Playground
Wainwright Elementary School	5330	Milwee Street	5.71	Playground
Waltrip High School	1900	West 34th St	19.60	0.26 mi Paved Trail, 2 Baseball Fields, Football Field, 3 Tennis Courts
Total Acres			**60.87**	

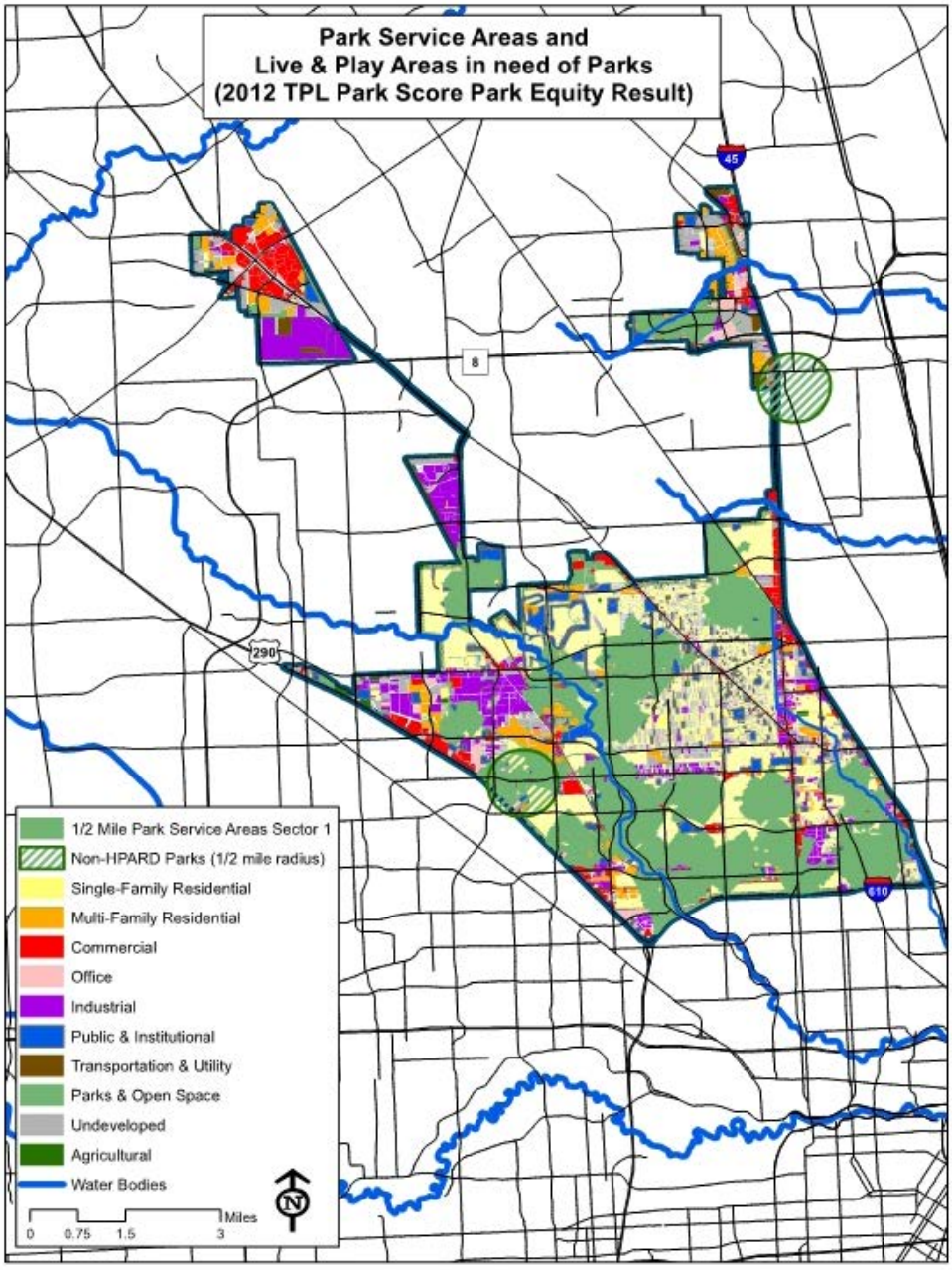
TABLE 7. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 1 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

Open and Green Space

In addition to the already mentioned 365.5 acres of parkland operated by HPARD, the Pinemont HOA built and maintains a 2.71 acre park inside that subdivision, and through the Parks and Open Spaces ordinance the Chelsea Senior Community dedicated 1.65 acres of land to serve the residents of this senior multi-family development. The Chelsea Senior Community park serves the residents of this community, so the acreage is included in the Open and Green Space table; however, it is not shown on the service area map since only residents of the Chelsea Senior complex may use the park. The acreage for Lincoln Park is accounted for by HPARD and not in the Harris County acreage in Table 8 below.

Park Type	HPARD Park Number	HC Park Number	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
							Population			148,999	
Pocket Park (1 acre)	2	0	0.82	0	0	0.82	0.005 ac/ 1,000 people	0.01	0.01	-0.08	-0.08
Neighborhood Park (1-15 acres)	20	0	112.80	0	4.36	117.16	1 ac/1,000 people	0.76	0.79	36.00	32.00
Community Park (16-150 acres)	6	0	251.90	0	0	251.90	1.5 ac/1,000 people	1.83	1.83	-28.00	-28.00
TOTAL	28	0	365.50	0	4.36	369.9	**19 ac/1,000 people**			36.00	32.00

TABLE 8. PARK SECTOR 1 HPARD AND LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

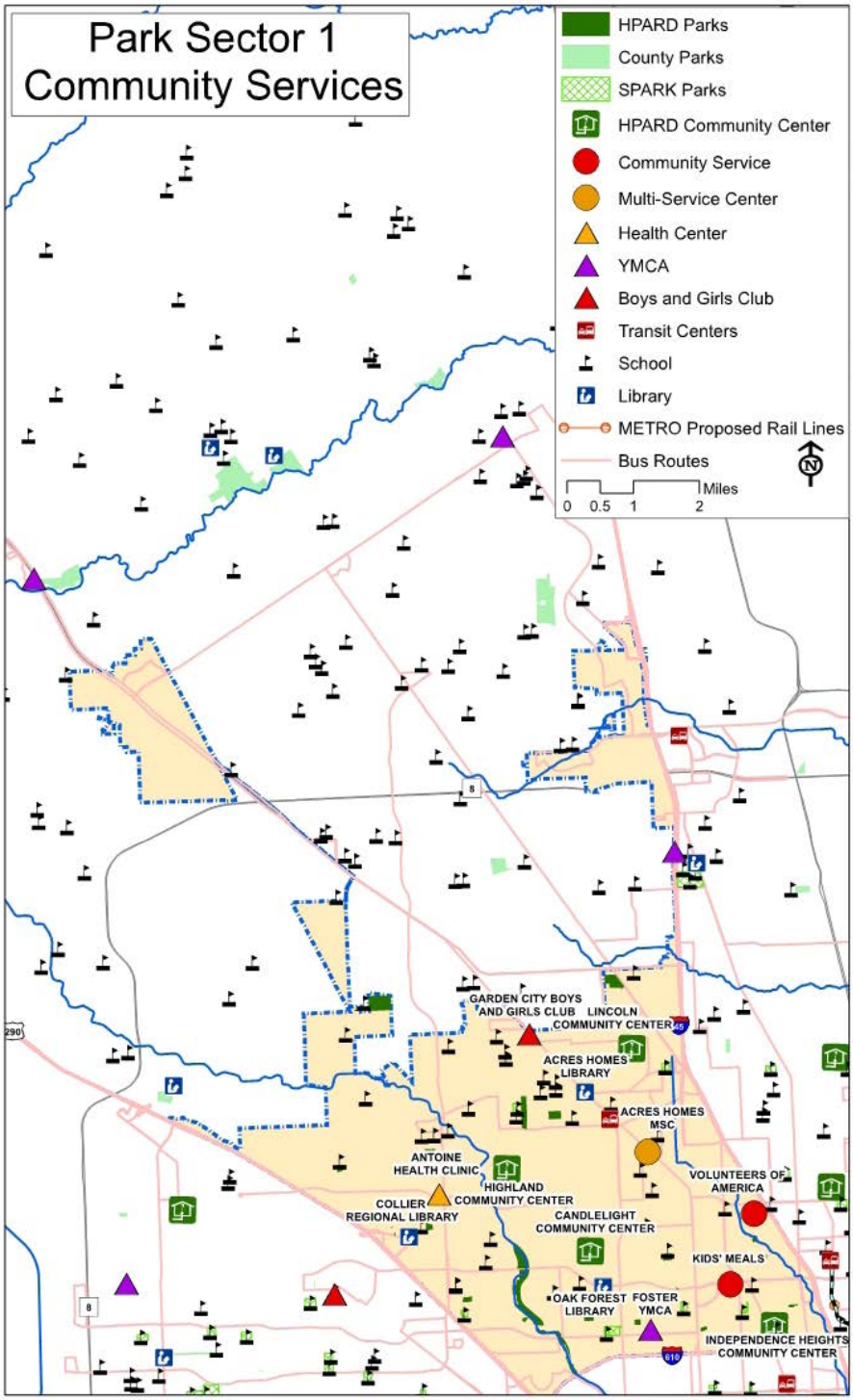


To determine level of service, the 2007 Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people), as well as park accessibility within a ½ mile radius using the ParkScore™ Evaluator tool developed by the Trust for Public Land. Table 8 above shows the level of service (LOS) based on the 2007 HPARD recommended standards of a number of acres per 1,000 people using the 2010 Census population. For the purpose of this calculation, TC Jester and Watonga Parkways' acreage is included in the Community Park acreage. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs), this Park Sector is lacking 32 acres of Neighborhood Park land. The acreage for Regional Parks is accounted for in the city-wide analysis.

Another way to measure the level of service provided by parks is by looking at a "walkable" distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for

FIGURE 7. PARK SECTOR 1 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/ PLAY AREAS OF NEED

Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ study mapped the park needs of the City of Houston based on accessibility, density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project. The areas in green in Figure 7 above represent the area within ½ mile of existing parks not blocked by freeways or major roads; the hatched area represents the service area of a publicly accessible (owned, developed and maintained by the Greenspoint District and the Pinemont HOA) parks that were not accounted for when the Trust for Public Land (TPL) ParkScore™ data was produced. While the Greenspoint park is outside of the Park Sector, its service area provides a small amount of coverage for the fringes of the northern part of the Park Sector. Chelsea Senior Living's private park was not included in the Trust for Public Land (TPL) analysis due to the fact that it is contained within the development and only accessible to its residents and not the public. Roughly 50% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector.



AMENITIES AND SERVICES

This map shows some of the community services available in this area: community centers, multi-service and health centers, transit centers, schools, libraries, YMCAs, and Boys and Girls Clubs. There are four community centers located in Park Sector 1: Candlelight, Highland, Independence Heights, and Lincoln Community Centers.

The Acres Homes Multi-Service Center, which is owned and operated by the City of Houston is located in this Park Sector. It contains many valuable community resources, such as senior services, family planning, HIV planning, Houston Community College classes, food assistance, WIC services, immunizations, Head Start programs, and summer youth programs. The Harriet and Joe Foster YMCA is also located in this Park Sector. The non-profit organization ARC of Greater Houston is located in this Park Sector, which advocates for children and adults with intellectual and developmental disabilities. It provides recreational and social programs, educational and disability trainings, and self-advocacy seminars for those with disabilities and their families and caregivers. The Volunteers of American in Greater Houston is a faith-based non-profit organization with a facility in this Park Sector. They provide addiction treatment, location of affordable housing, financial and employment coaching, youth prevention programs, and services for those with disabilities. Kids' Meals is another non-profit organization in this Park Sector that provides home delivery of free, nutritious lunches to children under 5 years of age living in poverty. The libraries in this Park Sector provide computer access, community meeting space, and educational programs.

FIGURE 8. PARK SECTOR 1 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities-Level of Service

The 2007 HPARD standards by amenity have been applied to the amenities in Park Sector 1. The first column after the recommended HPARD standards indicates the level of service (LOS) accounting for HPARD facilities only, the total inventory standard accounts for facilities from all providers. Then, the standard for each amenity is compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these recommended HPARD standards, Harris County and other providers are meeting the needs of the residents for tennis courts, dog parks, skate parks, swimming pools, outdoor spraygrounds, and baseball fields. This Park Sector is deficient in playgrounds (15), picnic shelters (8), trails (18 miles), outdoor basketball courts (3), volleyball courts (2), community centers (1), softball fields (1), and soccer fields (15). The current parks in this Park Sector would not support the number of fields shown in the Total Inventory Needs, so additional land would be needed to develop some of these amenities.

	HPARD	**Harris County**	**Other Providers**	**Total**	**Recommended HPARD Standard**		**Current HPARD Level of Service**			**Current Total Inventory Level of Service**	**HPARD NEEDS** Over/ Under Service	**Total Inventory NEEDS** Over/ Under Standard
								Population		**148,999**		
Playgrounds	18	0	5	23	1	4,000	1	8,278	1	6,478	19	14
Picnic Shelters	6	0	1	7	1	10,000	1	24,833	1	21,286	9	8
Trails (developed, not natural, off-street)	11.2	0	0.64	12	0.2	1,000	0.08	1,000	0.08	1,000	19	18
Outdoor Basketball Courts	9	0	0	9	1	12,000	1	16,555	1	16,555	3	3
Tennis	12	0	3	15	1	10,000	1	12,417	1	9,933	3	0
Volleyball	1	0	0	1	1	50,000	1	148,999	1	148,999	2	2
Dog Parks	1	0	0	1	1	100,000	1	148,999	1	148,999	0	0
Skate Parks	1	0	0	1	1	100,000	1	148,999	1	148,999	0	0
Community Centers	4	0	0	4	1	30,000	1	37,250	1	37,250	1	1
Swimming Pools	4	0	0	4	1	50,000	1	37,250	1	37,250	-1	-1
Outdoor Spray-grounds	2	0	0	2	1	100,000	1	74,500	1	74,500	-1	-1
Baseball (Lit & Unlit)	7	0	2	9	1 field	30,000	1	21,286	1	16,555	-2	-4
Softball (Lit & Unlit)	4	0	0	4	1 field	30,000	1	37,250	1	37,250	1	1
Soccer (Lit & Unlit)	0	0	0	0	1 field	10,000	0	148,999	0	148,999	15	15

TABLE 9. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 1
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- Mangum Manor Park had a retaining wall constructed in part of the park that was experiencing erosion. Along with improving drainage and flooding issues, some beatification was undertaken for this project, which included remulching trees and replanting grass. This project was completed in July 2012.

- In 2007 Turner (Sylvester) Park recently had its baseball fields renovated and the park was redeveloped through a partnership with the Major League Astros baseball team and CIP funds. The scope of work included: lighting two little league fields, one lighted NCAA field, jogging trails, walks, boardwalk, signage, fencing, irrigation, site lighting, parking lots, playground, picnic shelter, landscape and drainage improvements.

SUPPLEMENTAL MAPS: Park Sector 1 Council Districts

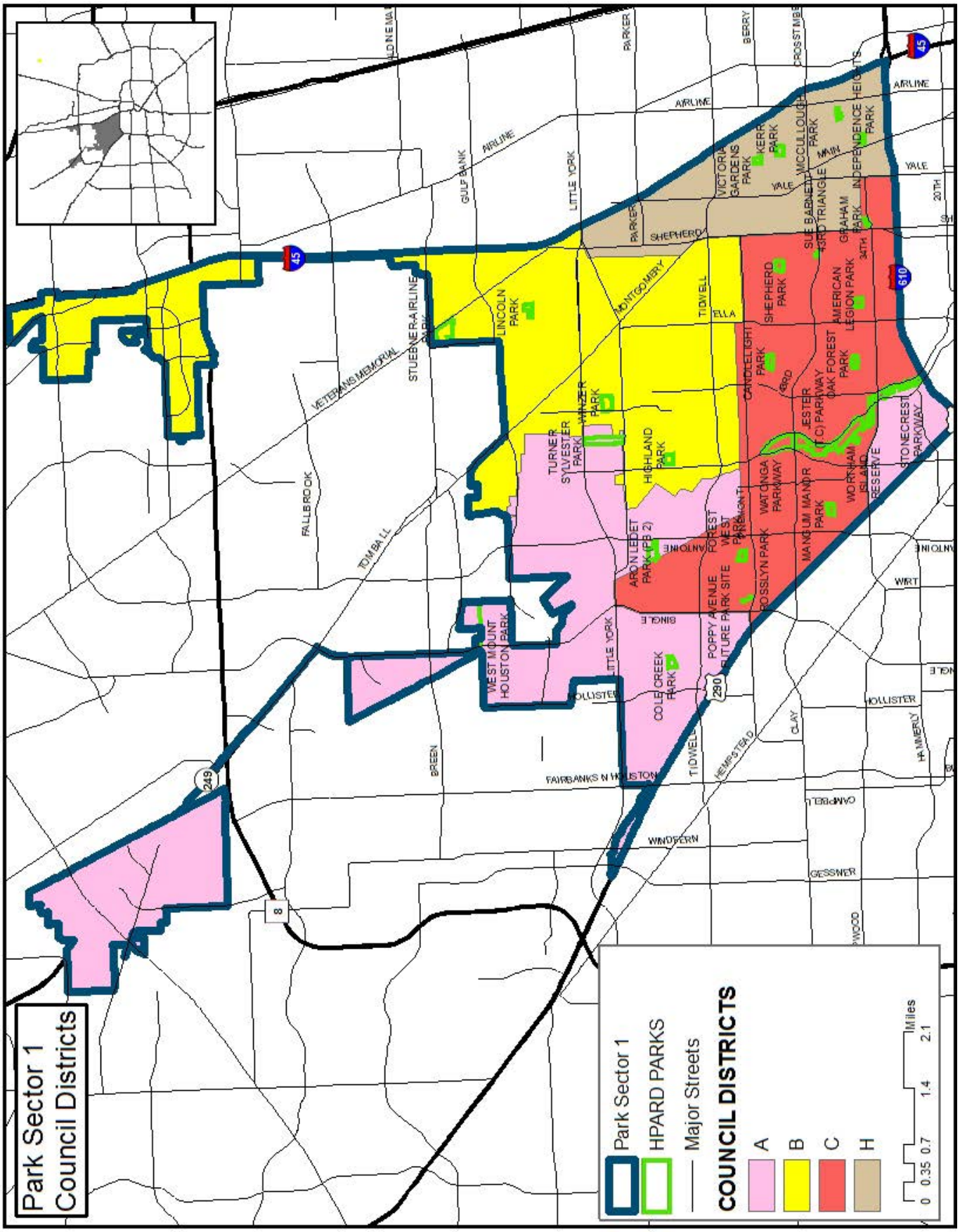


FIGURE 1: PARK SECTOR 1 COUNCIL DISTRICTS

Park Sector 1 Tax Increment Reinvestment Zones (TIRZs) and Management Districts

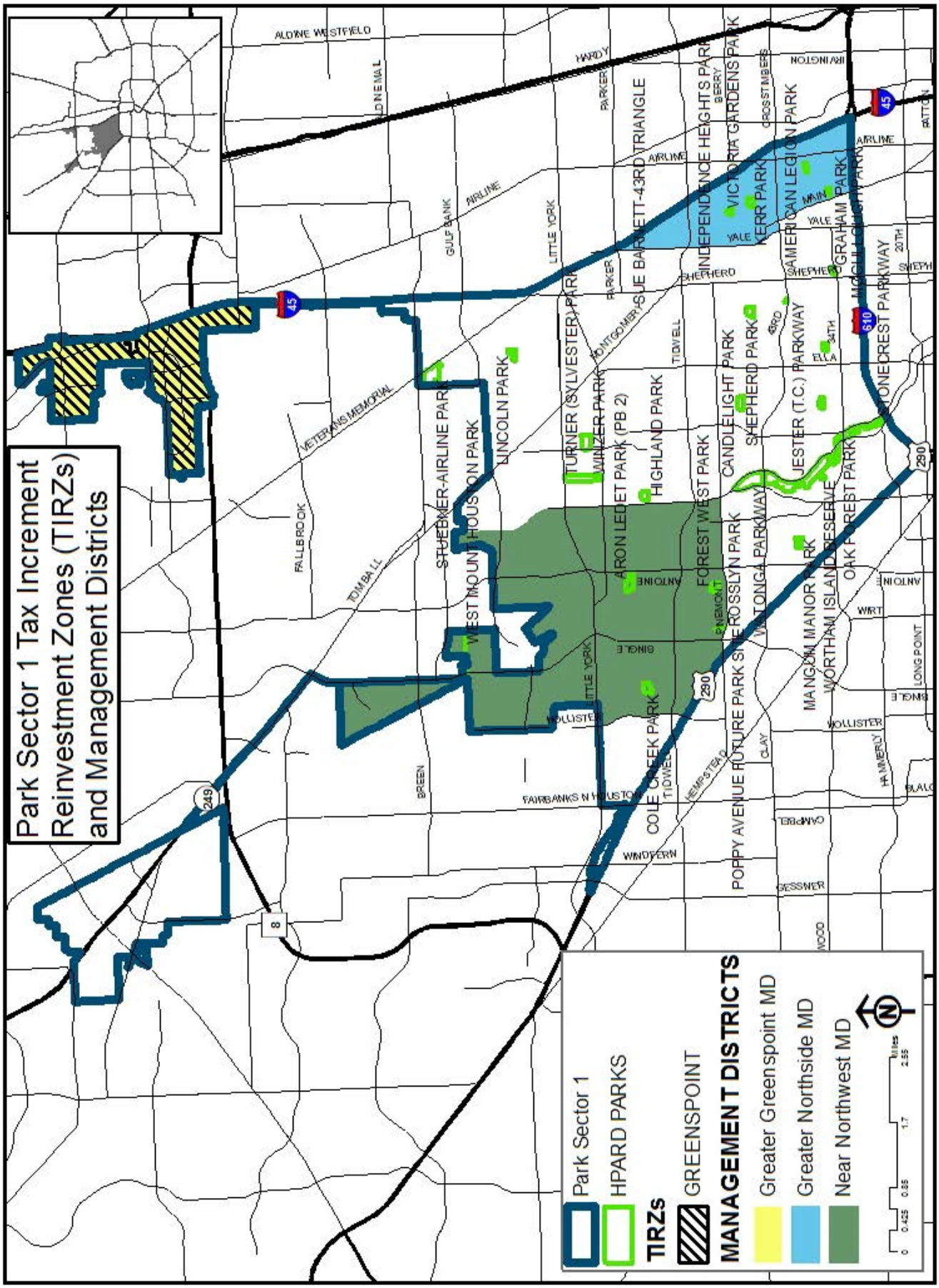


FIGURE 2: PARK SECTOR 1 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 1 Super neighborhoods

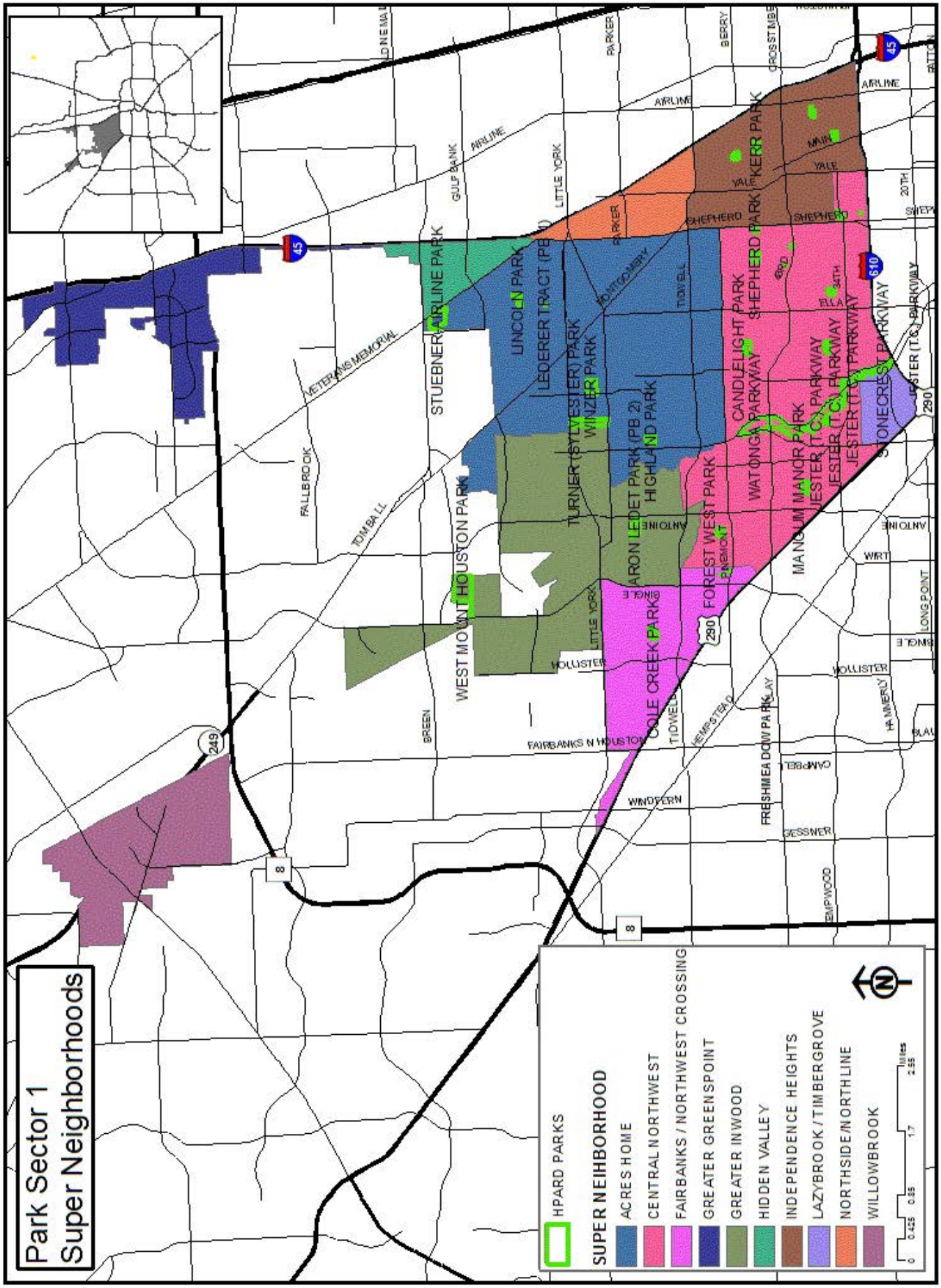


FIGURE 3: PARK SECTOR 2 SUPER NEIGHBORHOODS

Park Sector 1 Floodplain Areas

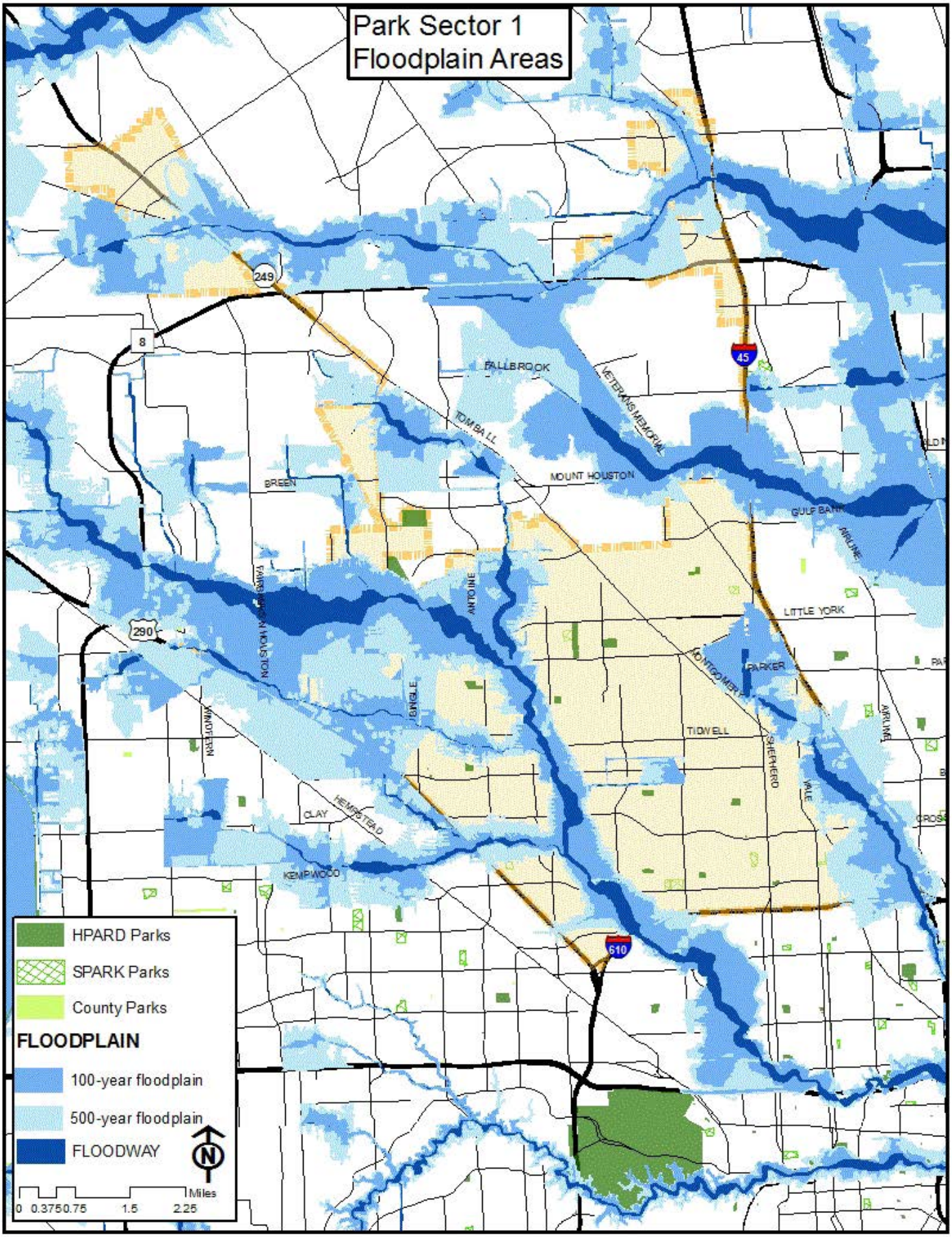


FIGURE 4: PARK SECTOR 1 FLOODPLAIN AREAS

PARK SECTOR 2

PARK SECTOR 2 SUMMARY

PARK SECTOR 2 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and data from The Trust for Public Land ParkScore™ Project), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Revitalize existing parks
2. Develop Neighborhood connections to parks and trails
3. Develop partnerships with the school system and other entities
4. Acquire new parkland
5. Develop new park facilities
6. Preserve environmentally sensitive areas

RECOMMENDATIONS

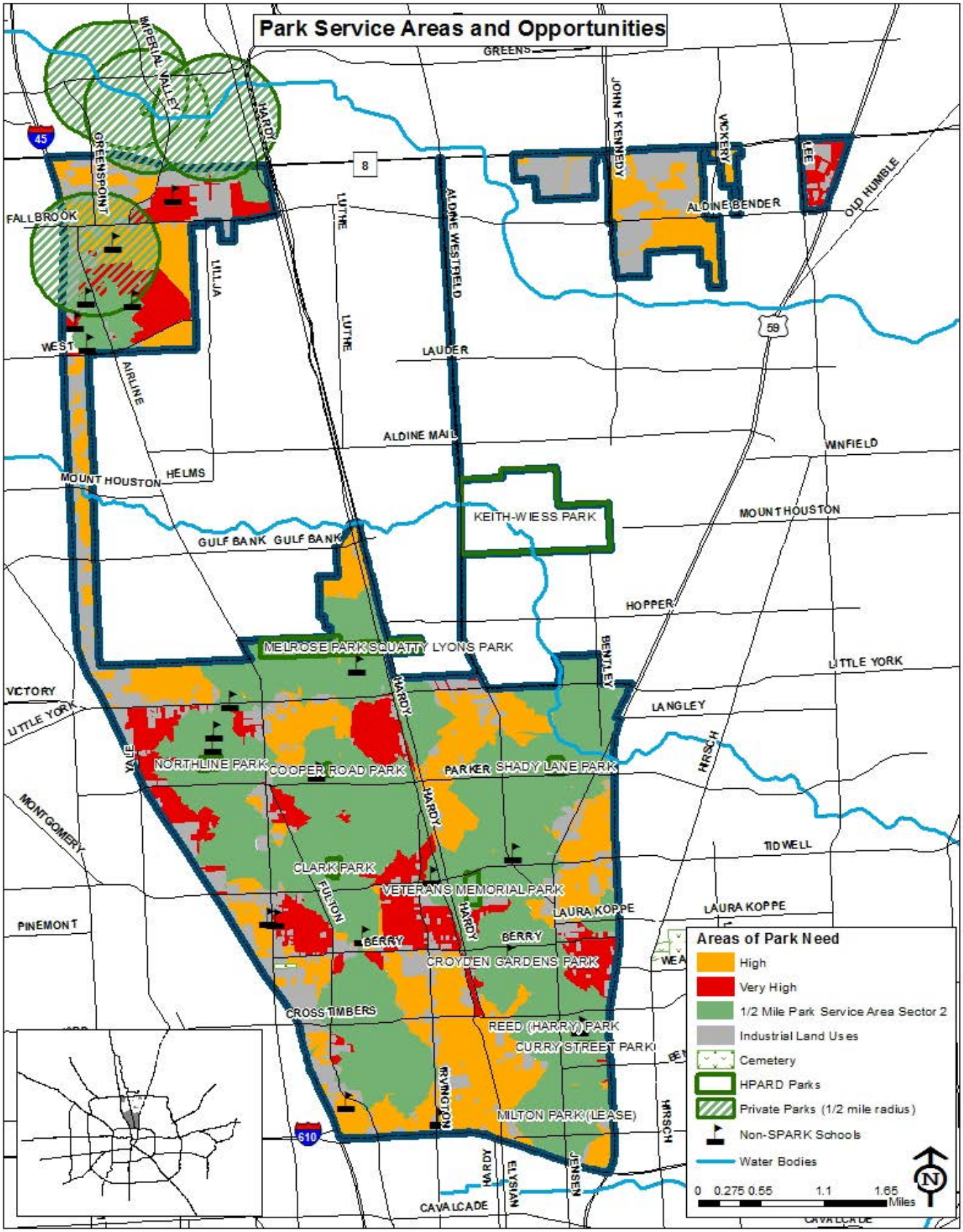
The parks in Park Sector 2 that have the highest need for redevelopment are listed from greatest need to least need: Cooper Road Park, Curry Street Park, Milton Park, Croyden Gardens Park, and Squatty Lyons Park.

An additional 17.5 acres of parkland are needed in this Park Sector. Schools not participating in the SPARK School Park Program (Non-SPARK schools) should be explored as potential future partnerships for park space. There is also a high percentage of undeveloped land in this Park Sector which could be conserved for future park use. There is one utility corridor running north-south, south of Veterans Memorial Park and east of the Hardy Toll Road that could be explored for future trail development. As there are few portions of this Park Sector that are traversed by bayous, trail development should be explored along existing utility corridors. In addition, both the Antoine Corridor and the Harris County-Airline Improvement District Livable Center Studies have identified some areas of potential future connections to the current park system which should be explored to address future park space and trail connections.

This Park Sector is deficient in playgrounds, trails, volleyball courts, dog parks, skate parks, community centers, and pools. In the 2014 Online survey, the top four priorities of residents in Park Sector 2 when asked what recreational needs existed in their Neighborhood were: hike, bike and walk trails, upgraded community centers, playground areas, and picnic areas and pavilions. Other services and amenities that residents asked for in the write-in portion of the survey were: a swimming pool at Melrose Park, Zumba and aerobics classes, spraygrounds, walking trails, natural areas, fitness and nutrition programs, swim lessons, dance and theater programs, and senior programming.

As there is little redevelopment occurring in this Park Sector, although some is anticipated close to I-610 and along the light rail line, this Park Sector should be targeted for CIP and bond funds for future development and land acquisition. In addition, because 72% of the population in this Park Sector has low to moderate incomes, there is an opportunity to pursue Community Development Block Grant (CDBG) funds. Because of the health profile (obesity, 35.6%, and diabetes, 16.8%, levels higher than the city as a whole of 30.8% and 11.4% respectively) of this Park Sector, partnerships focused on increasing physical activity levels and programming for healthy living should be explored.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Online Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector


Park Service Areas and Opportunities
IMPERIAL VALLEY
HARDY
GREENSPOINT
FALLBROOK
LILLJA
WEST
AIRLINE
LUTHE
ALDINE WESTFIELD
JOHN F KENNEDY
VICKERY
LEE
OLD HUMBLE
ALDINE BENDER
LAUDER
ALDINE MAIL
HELMS
MOUNT HOUSTON
WINFIELD
KEITH-WIESS PARK
GULF BANK
HOPPER
MELROSE PARK
SQUATTY LYONS PARK
BENTLEY
LITTLE YORK
VICTORY
LANGLEY
YALE
NORTHLINE PARK
COOPER ROAD PARK
PARKER
SHADY LANE PARK
HRSCH
MONTGOMERY
TIDWELL
CLARK PARK
VETERANS MEMORIAL PARK
FULTON
LAURA KOPPE
PINEMONT
BERRY
CROYDEN GARDENS PARK
CROSS TIMBERS
REED (HARRY) PARK
CURRY STREET PARK
IRVINGTON
MILTON PARK (LEASE)
ELYSIAN
JENSEN
CAVALCADE
Areas of Park Need
High
Very High
1/2 Mile Park Service Area Sector 2
Industrial Land Uses
Cemetery
HPARD Parks
Private Parks (1/2 mile radius)
Non-SPARK Schools
Water Bodies
0 0.275 0.55 1.1 1.65
Miles
N

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Milton Park (Lease)	6150	Jensen/Caplin	0.94	N/A
Total HPARD Pocket Park Acreage			**0.94**	
Neighborhood Parks				
Clark Park	9718	Clark	12.74	0.36
Cooper Road Park	200	Cooper Rd	3.64	N/A
Croyden Gardens Park	8400	Millicent	2.70	N/A
Curry Street Park	7201	Curry	6.00	N/A
Northline Park	6902	Nordling	13.63	0.42
Reed (Harry) Park	7500	Jensen	1.88	N/A
Shady Lane Park	10220	Shady Lane	12.40	0.70
Total HPARD Neighborhood Park Acreage			**52.99**	
Community Parks				
Melrose Park	1000	Canino Road	92.44	0.25
Squatty Lyons Park	1701	Chamberlin	19.79	N/A
Veterans Memorial Park	1800	Tidwell	21.54	0.36
Total HPARD Community Park Acreage			**133.77**	
Regional Parks				
Keith-Wiess Park	12300	Aldine-Westfield	499.46	2.85
Total HPARD Regional Park Acreage			**499.46**	
Total HPARD Park Acreage			**687.20**	
Total HPARD Trail Length				**4.94**

EXISTING COMMUNITY CENTERS AND POOLS

Community Centers and Pool Facilities	Address	Zip Code	Agency Responsible
Clark Community Center	9718 Clark	77076	HPARD
Melrose Community Center	1000 Canino Road	77076	HPARD
Northline Park Pool	6902 Nordling	77076	HPARD
Shady Lane Community Center	10220 Shady Lane	77093	HPARD

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to identify areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger). The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Approximately 40% of the area in this Park Sector is in need of parkland accessible within a ½ mile, as compared to the 45% of the population of the city of Houston who need park access. Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains 743 acres of parkland (Harris County, HPARD and other providers). Of the 13,166 acres in this Park Sector, 6% of this acreage is parkland.
- There are approximately 100,000 residents. Over 81% of the population is Hispanic or Latino (higher than the City of Houston at 44%).
- Growth for this Park Sector is expected along the light rail and closest to 610 freeway.
- An additional 17.5 acres of parkland are needed in Sector 2. This is based on the current population (2010 US Census) of the Park Sector and needs assessment completed for Pocket, Neighborhood and Community parks (number of acres per 1,000 people).
- There is a total of 8 miles of existing trails serving this Park Sector.
- H-GAC population projections estimate that this area will add over 10,000 residents by 2040. To meet the parkland needs for the estimated 2040 population an additional 11 acres of parkland will be needed.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK School Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	24	12	19	9	12	2	1	1	4	2	2	14	4	15
2015 Existing	22	12	8	9	12	1	0	0	3	1	2	14	4	15
2015 Needed	2	-	11	-	-	1	1	1	1	1	-	-	-	-
2040 Needed	3	-	2	-	-	-	-	-	1	-	-	-	-	-

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of and if expansion of the park was needed for these amenities.

2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.

3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.

4. Annual Operation and Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication “2014 City Park Facts.” Houston spent $29 per resident on parks and recreation per resident in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$18,000,000	17.5 Acres $3,000,000	$18,000,000	$6,000,000
2040	$9,000,000	11 Acres $2,000,000	$44,000,000	$700,000
TOTAL 2040	$27,000,000	28 Acres $5,000,000	$62,000,000	$6,700,000

PARK SECTOR PROFILE 2

LOCATION AND POLITICAL BOUNDARIES

Park Sector 2 is located east of IH-45, north of IH- 610, west of US-59, and south of Beltway 8
Park Sector Size: 13,166 acres or 20.6 square miles
Population: 97,367 people, Density: 4,726 persons/sq. mi.
Political Boundaries with Park Sector 2:

- Council Districts: B and H
- Super neighborhoods contained in this Park Sector: Northside/ Northline, Northside Village, Eastex- Jensen Area, IAH/ Airport Area, and Greater Greenspoint
- TIRZ: Greenspoint
- Management Districts: Greater Northside, Greater Greenspoint, and Aldine Public Improvement District.

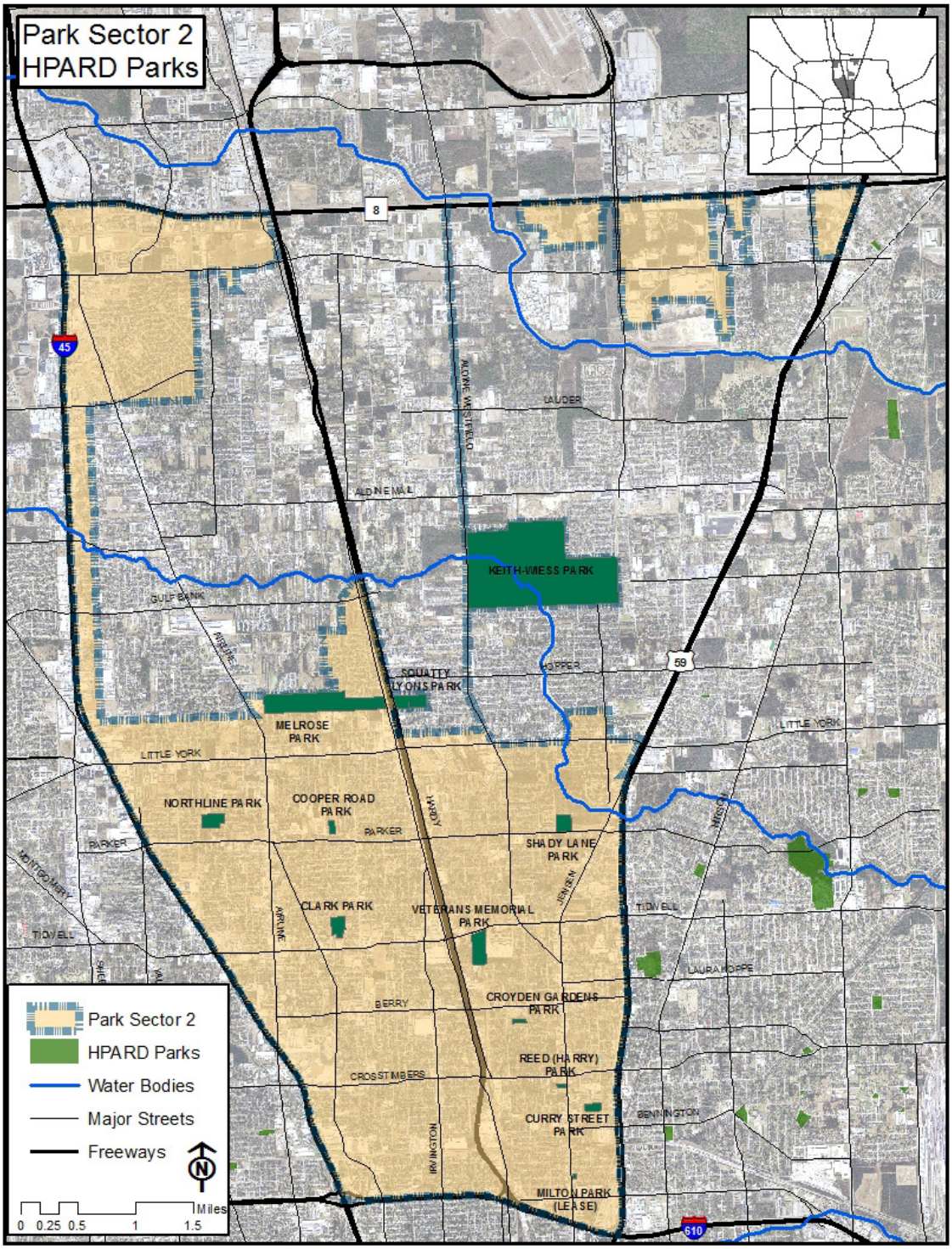


FIGURE 1. PARK SECTOR 2 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 2 Population	Park Sector 2 Percent of Total	Houston Population	Houston Percent of Total
Total Population	97,367	-	2,119,831	-
Hispanic or Latino	79,202	81.3%	919,668	43.8%
Non-Hispanic White	6,991	7.2%	537,901	25.6%
Non-Hispanic Black	10,338	10.6%	485,956	23.1%
Non-Hispanic American-Indian	97	0.1%	126,098	6.1%
Non-Hispanic Asian	355	0.4%		
Non-Hispanic Hawaiian or Pacific Islander	13	0.0%		
Non-Hispanic Some Other Race	371	0.1%	26,828	1.3%

TABLE 1. PARK SECTOR 2 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains about 4.6% of the population of Houston; the majority (81%) of the residents are Hispanic/Latino, followed by Non-Hispanic Blacks (11%) and Non-Hispanic Whites (7%). Most of the population lives in the eastern portion of the Park Sector closer to IH-45.

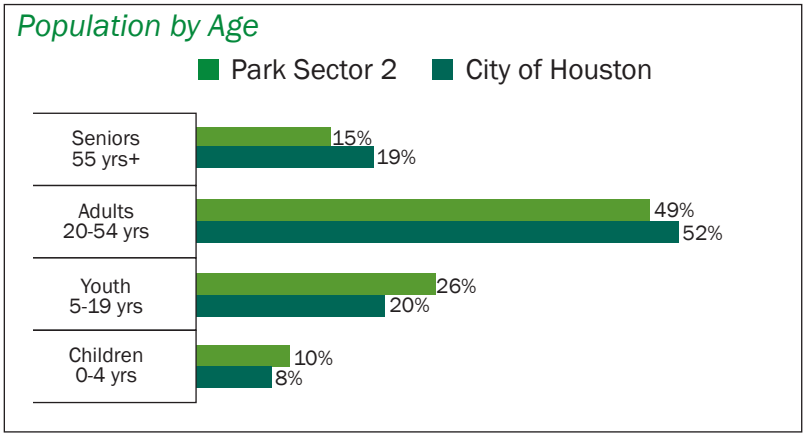


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 2 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that the percent of population under 19 (36%) is much higher than that of the rest of the city (28%). The percentage of adults 55+ years is lower (15%) than the rest of the City of Houston (19%). However, the distribution of age groups in this Park Sector generally mirrors the same pattern as the entire City of Houston. These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 2 Population	PS 2 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	10,088	10%	9%	166,066	8%	8%
Youth	5-9 yrs	9,420	9%	21%	148,843	7%	21%
	10-14 yrs	8,129	8%		135,622	7%	
	15-19 yrs	8,406	8%		140,673	7%	
Adults	20-34 yrs	25,019	25%	50%	539,348	26%	52%
	35-44 yrs	13,020	13%		286,117	14%	
	45-54 yrs	11,214	11%		265,060	13%	
Senior	55-64 yrs	7,504	8%	20%	204,852	10%	19%
	65 yrs +	7,142	7%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 2 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 30,859 housing units in this Park Sector. The percent of vacant housing in Park Sector 2 (10.5%) is lower than the vacancy rates for the entire city (12.3%). Home ownership for this Park Sector (40.3%) is just above the City of Houston's home ownership rate (39.7%); similarly, the share of renters (49%) is just above that of the city's as a whole (47.1%).

Income

The median household income for this Park Sector ($29,259) is much lower than that of the City of Houston ($48,322). In this Park Sector, 72% of the population is low to moderate income; therefore, this area could qualify for Community Development Block Grant (CDBG) funds.

Educational Attainment

Within Park Sector 2, the percent (6%) of individuals 25+ years of age with an Associate degree or a Bachelor's degree or above is drastically lower than the relative percent for the entire City of Houston (32%). Conversely, the percentage of those within this park Park Sector without a high school degree (56%) is markedly higher than the same population for the City of Houston (25%).

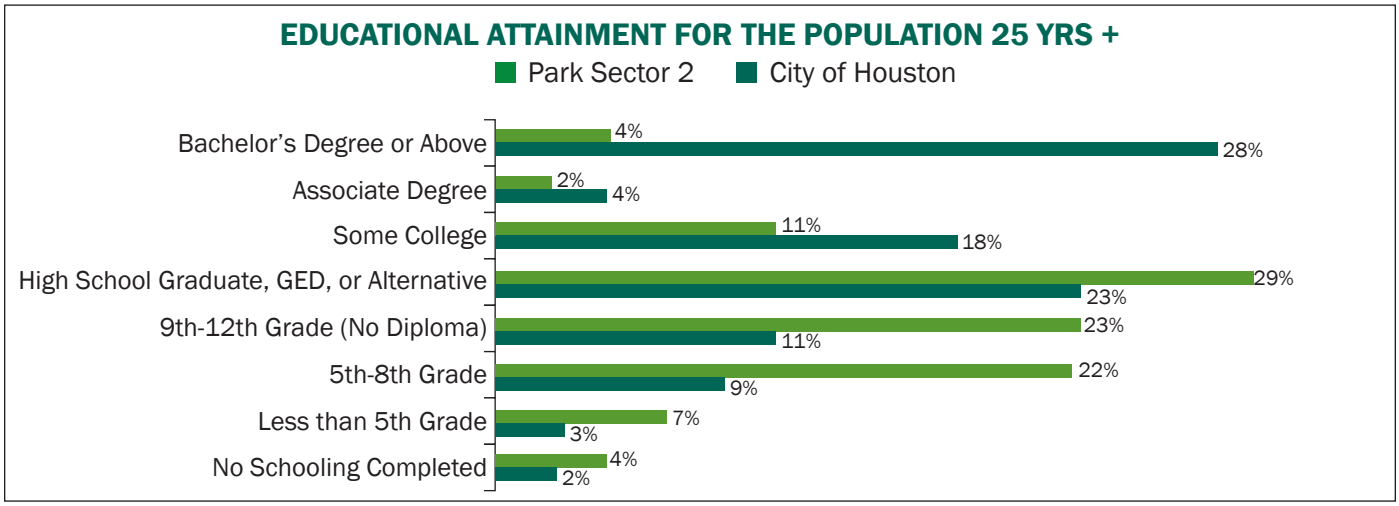


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 35.6% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that 16.8% of the adult population received a diagnosis of diabetes by a professional, which is above the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that over 26% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is lower than that of the entire city (32%). The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%. Finally, the survey shows that over a quarter of the population in this Park Sector (26.7%) does not engage in moderate physical activity at all, which is higher than the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

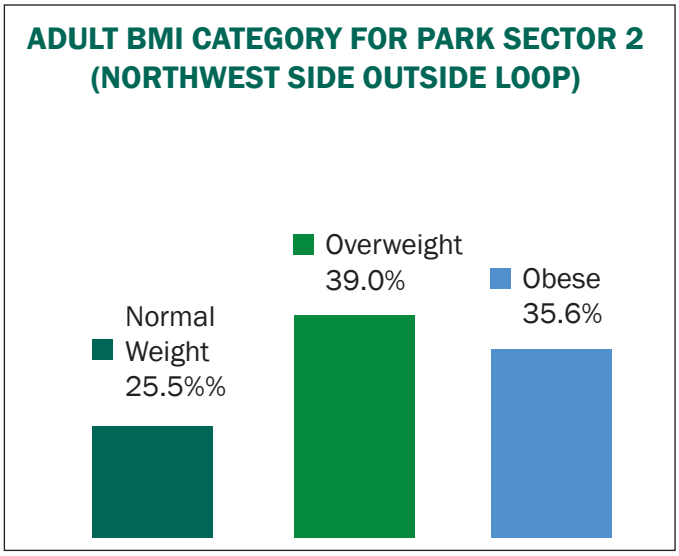


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	17.60
1	5.30
2	12.80
3	17.80
4	12.00
5	10.30
6	2.200
7	22.00

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

In Park Sector 2, while the acreage of residential, single-family parcels and multi-family (40.5%), is most common, there is a significant portion (16.1%) of the land classified as industrial. Undeveloped land accounts for over 14% of the acreage in this Park Sector. As expected, most of the commercial uses are along freeways or major thoroughfares; however, the industrial uses seem more evenly spread throughout the Park Sector.

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	18,534	75.0%	4,332	38.9%
Multi-Family	569	2.3%	573	5.1%
Commercial	1,022	4.1%	890	8.0%
Office	115	0.5%	216	1.9%
Industrial	806	3.3%	1,792	16.1%
Public & Institutional	573	2.3%	1,023	9.2%
Transportation	158	0.6%	413	3.7%
Parks & Open Space	259	1.0%	271	2.4%
Undeveloped	2,642	10.7%	1,587	14.3%
Agriculture Production	10	0.1%	35	0.3%
TOTAL	24,702	100%	11,133	100%

TABLE 4. LAND USE BY DESCRIPTION (2013 HCAD)

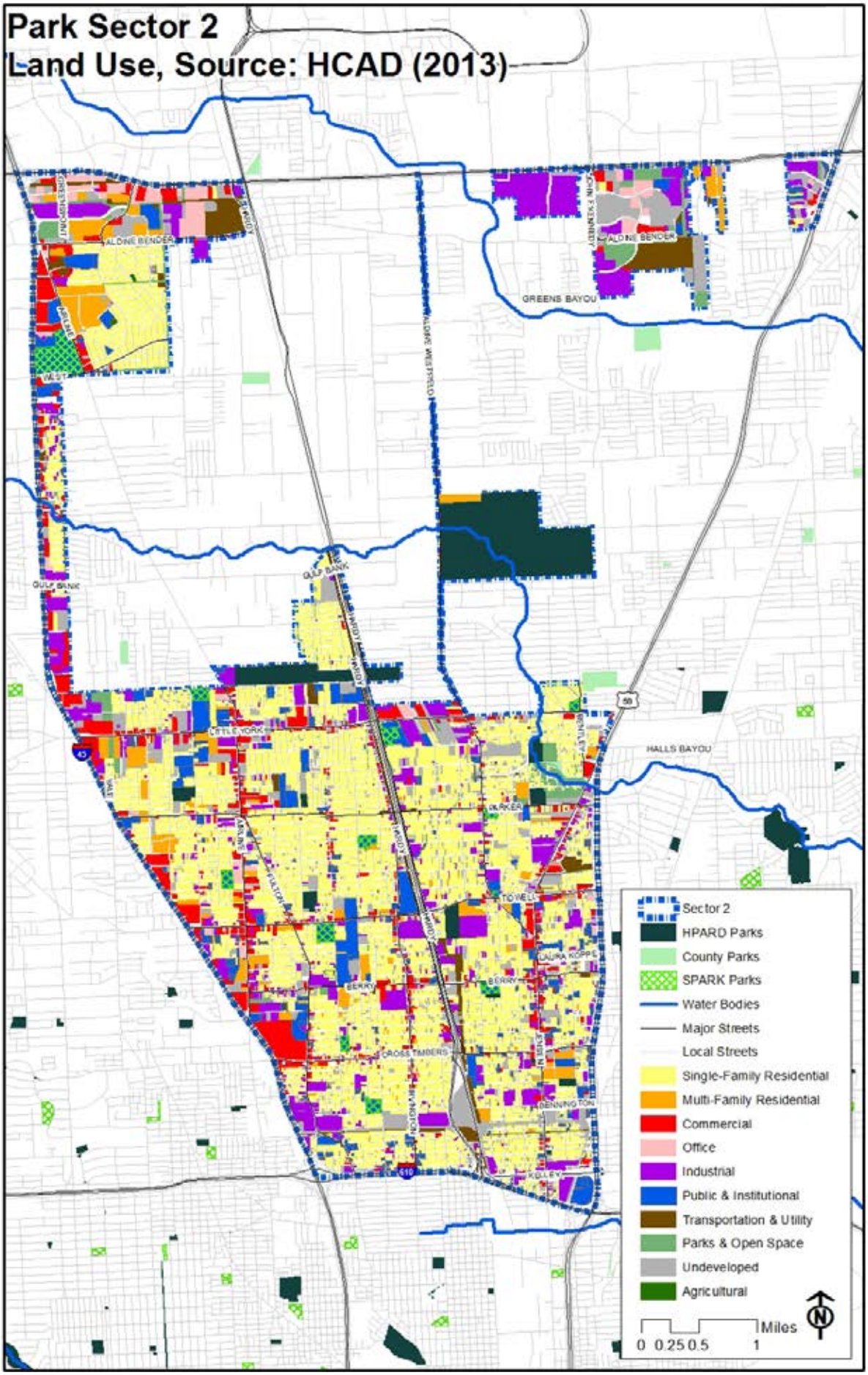


FIGURE 5. PARK SECTOR 2 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

HPARD PARKS AND TRAILS

The Houston Parks and Recreation Department (HPARD) operates 12 parks in the area accounting for 687.2 acres of parkland. Located in the Halls Bayou watershed, Keith-Wiess Park is operated in partnership with Harris County Flood Control District and serves as a small forest preserve, a recreational area and a natural detention area that helps to protect those in the watershed from fast traveling flood waters. Harris County operates 4 parks in this Park Sector, totaling 44.63 acres of parkland. Two of these parks, Mary Withers and Pinewood Village Parks, are owned by the City of Houston but maintained and operated by the County through a 30-year inter-local agreement. In addition, the Greenspoint District has developed two parks, City View Park (2.5 acres) and Buckboard Park (5 acres), and maintains open space that is set aside for a third park, Bradfield Park (4 acres).

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Milton Park (Lease)	6150	Jensen/Caplin	0.94	N/A
Total HPARD Pocket Park Acreage			**0.94**	
Neighborhood Parks				
Clark Park	9718	Clark	12.74	0.36
Cooper Road Park	200	Cooper Rd	3.64	N/A
Croyden Gardens Park	8400	Millicent	2.70	N/A
Curry Street Park	7201	Drowsy Pine	6.00	N/A
Northline Park	6902	Nordling	13.63	0.42
Reed (Harry) Park	7500	Jensen	1.88	N/A
Shady Lane Park	10220	Shady Lane	12.40	0.70
Total HPARD Neighborhood Park Acreage			**52.99**	
Community Parks				
Melrose Park	1000	Canino Road	92.44	0.25
Squatty Lyons Park	1701	Chamberlin	19.79	N/A
Veterans Memorial Park	1800	Tidwell	21.54	0.36
Total HPARD Community Park Acreage			**133.77**	
Regional Parks				
Keith-Wiess Park	12300	Aldine-Westfield	499.46	2.85
Total HPARD Regional Park Acreage			**499.46**	
		Total HPARD Park Acreage	**687.2**	
		Total HPARD Trail Length		**4.94**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 2

Inside HPARD parks, there are a total of 4.94 miles of trails. In addition, there are 1.44 miles of trails inside SPARK parks and 2 miles of trails along Halls Bayou between Jensen Drive and Keith-Wiess Park (passing through Bretshire, Mary Withers and Pinemont Village Parks) for a total of 8 miles of existing trails serving this Park Sector. Halls Bayou only touches the northeast corner of this Sector, so the majority of the Sector is not served by trails along it. There is one utility corridor running north-south, south of Veterans Memorial Park east of the Hardy Road which could be explored for future trail development. Hardy Toll Road could also present opportunities for bike travel from Downtown to Spring Creek. Less than a quarter mile to the south of this Park Sector, across from loop 610, is the Hunting Bayou trail. A connection to this trail system would provide needed access to trails in this area.

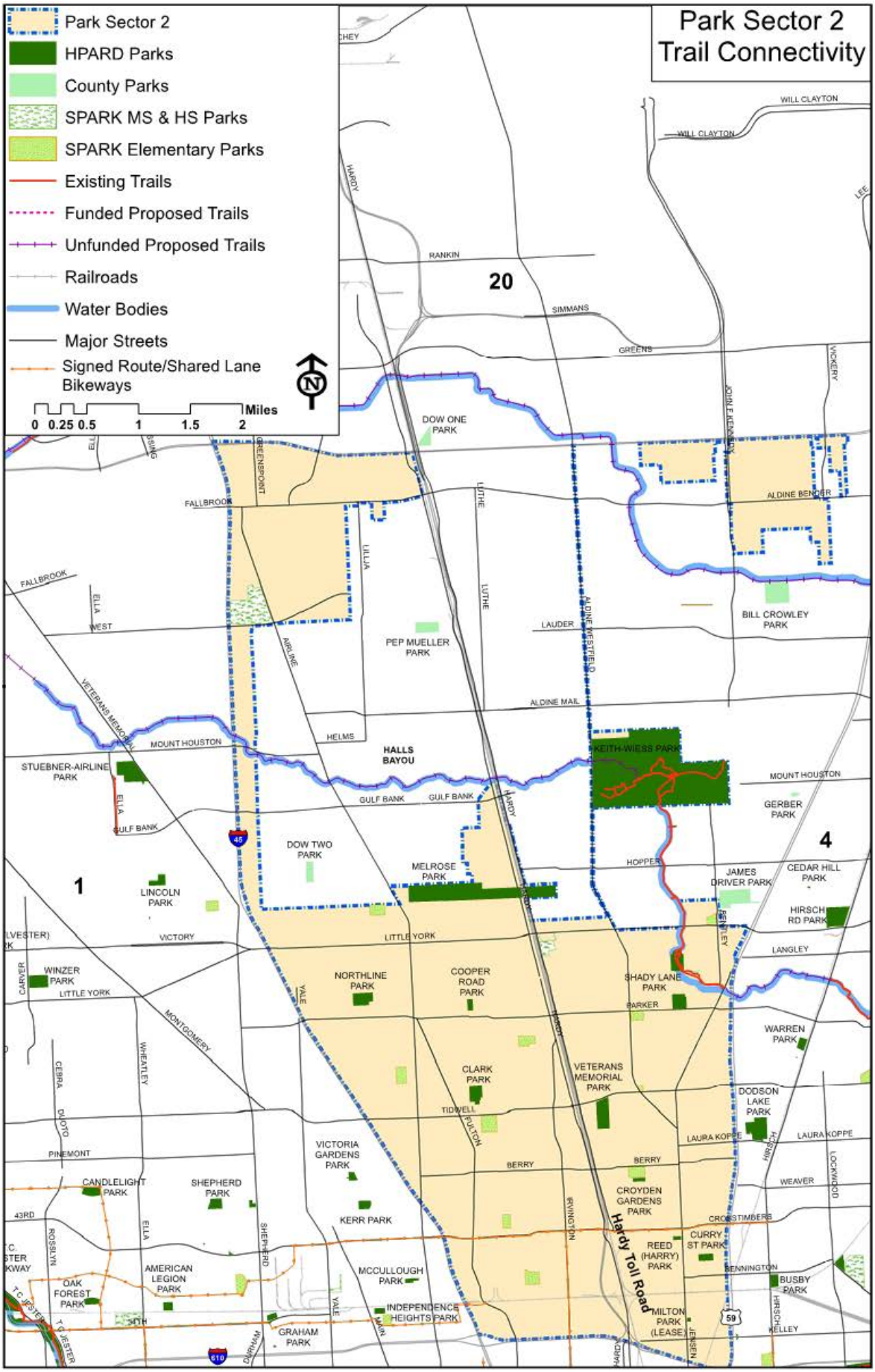


FIGURE 6. PARK SECTOR 1 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, TXDOT BIKE/PED BRIDGES AND LIGHT RAIL

EXISTING PARK FACILITIES

County Parks and Trails

County Park				
Facility Name	**Address**	**Street**	**Total Acres**	**Trail Length**
Bretshire Park		Foy at Marzelle	6.50	0.48
Mary Withers	10600	Shady Lane	6.00	0.16
Pinewood Village	2800	Briarwick Lane	2.86	0.15
		Total HC Park Acreage	**44.63**	
		Total HC Trail Length		**0.98**

TABLE 5. TRAILS INTERNAL TO COUNTY PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 2

SPARK Parks

There are 10 Elementary Schools and 2 Middle Schools participating in the SPARK Program providing access to park space and a variety of amenities to the public.

SPARK Parks				
Facility Name	**Address**	**Street**	**Total Acres**	**Amenities**
Berry Elementary School	2301	Berry	10.22	2 playgrounds
Burbank Elementary School	216	Tidwell	15.15	Playground, Soccer Field
Coop Elementary School	10130	Aldine-Westfield	6.95	Playground, 0.16 mi Trail
Garcia Elementary School	9550	Aldine-Westfield	1.45	Playground, 0.26 mi Trail, Multi-Purpose Field
Herrera Elementary School	525	Bennington	10.79	Playground, 0.24 mi Trail
Janowski Elementary School	7600	Bauman	6.36	Playground, 0.18 mi Trail
Lyons Elementary School	800	Roxella	9.52	2 Playgrounds, 0.19 mi Trail, Pavilion
Moreno Elementary School	620	Canino	10.00	0.13 mi Trail, 2 Playgrounds
Northline Elementary School	821	Witcher	9.61	Playground, Pavilion
Patrick Henry Middle School	10702	E. Hardy Rd	10.55	Soccer field, Multi-Purpose Field, 2 Tennis Courts
Scarborough Elementary School	3021	Little York	5.06	2 Playgrounds, 0.11 mi Trail, Pavilion
Stovall Middle School	11201	Airline Dr	66.88	0.17 mi Trail, Playground, 4 Tennis Courts, and 2 Baseball fields
Total Acres*			**162.54**	

TABLE 6. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 2 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

Park Type	HPARD Park Number	HC Park Number	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
									Population		**97,367**
Pocket Park (<1 acre)	1	0	0.94	0	0	0.9	0.005 ac/ 1,000 people	0.01	0.01	-0.45	-0.45
Neighborhood Park (1-15 acres)	7	3	52.99	15.36	11.5	68.4	1 ac/1,000 people	0.54	0.70	44.38	17.52
Community Park (16-150 acres)	3	1	133.8	29.27	0	163.0	1.5 ac/1,000 people	1.37	1.67	12.28	-16.99
Regional Park (151+ acres)	1	0	499.5	0	0	499.5	8.0 ac/1,000 people				
TOTAL	**12**	**4**	**687.2**	**44.6**	**11.5**	**743**				**56.66**	**17.52**

TABLE 7. PARK SECTOR 2 HPARD LOS AND PARKLAND NEED ANALYSIS.
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

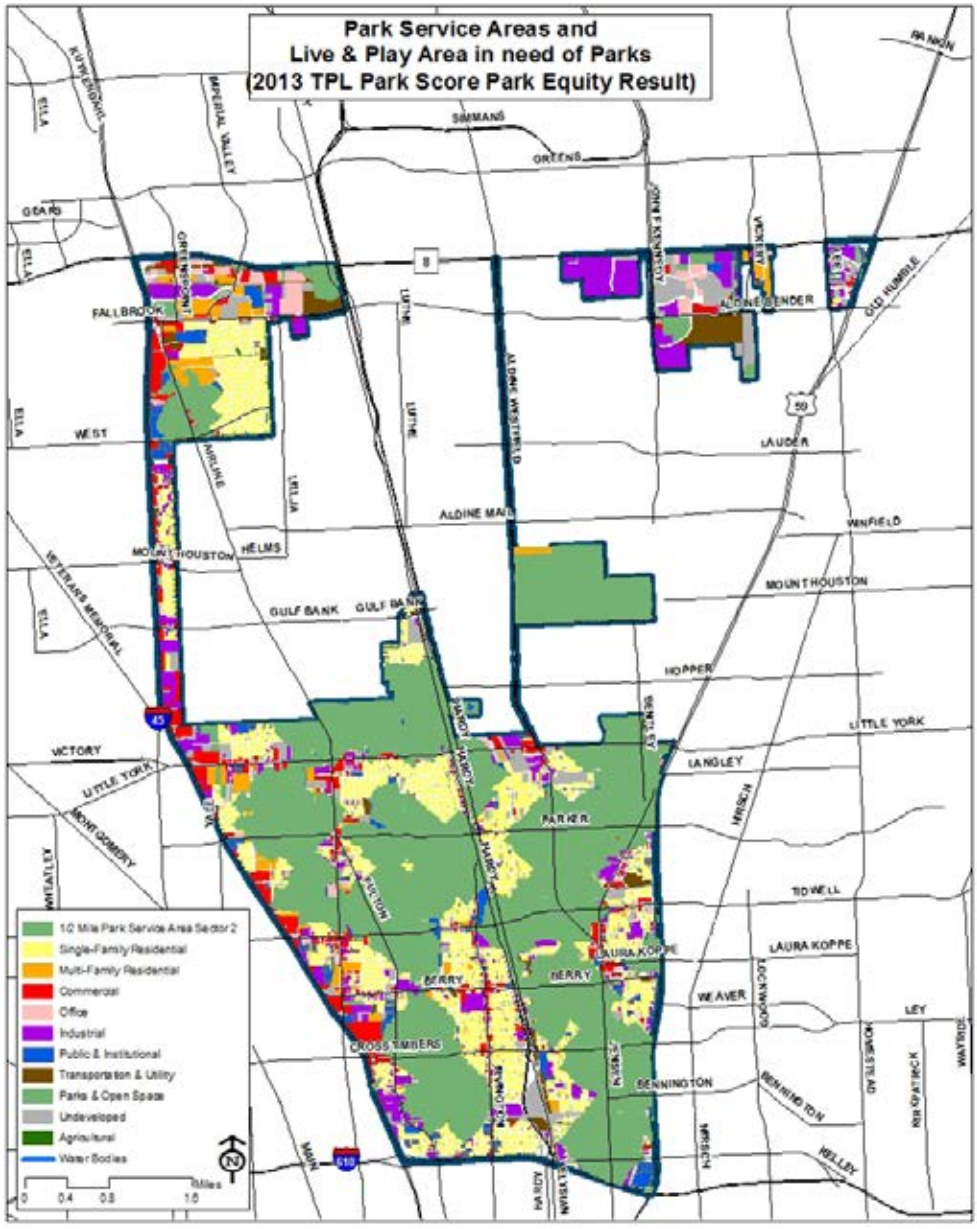
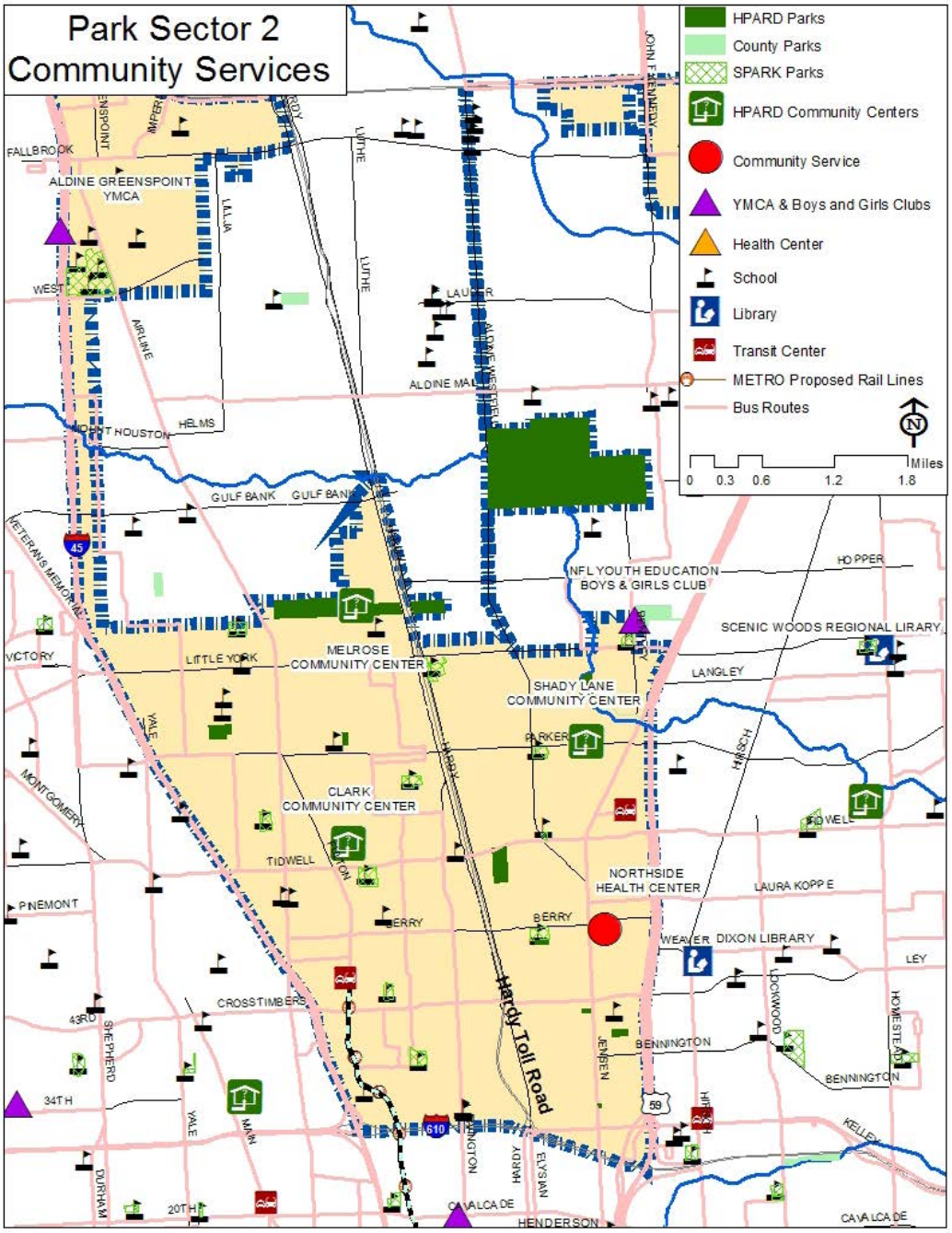


FIGURE 7. PARK SECTOR 2 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

To determine level of service, the 2007 Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a one-half mile radius using data from the Trust for Public Land ParkScore™ Project. Figure 6 below shows the level of service (LOS) based on the 2007 HPARD recommended standards of a number of acres per 1,000 people using the 2010 Census population. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 0.005 acres/1,000 people for a Pocket Park, Park Sector 2 meets the standard. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 1.5 acres/1,000 people for a Community Park, Park Sector 2 also meets this standard. The analysis for level of service and needs is shown below. 17.52 acres of Neighborhood parkland are needed in this Park Sector.

Another way to measure the level of service provided by parks is by looking at a "walkable" distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (TPL) ParkScore™ study mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project. The areas in green in Figure 7 represent the area within ½ mile of existing parks not blocked by freeways or major roads. Roughly 40% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, which is lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector. The hatched areas touching the boundaries of the Park Sector correspond to the existing Greenspoint District parks: CityView Park, Buckboard Park and Bradfield Park. These parks serve the most northwestern portion of this Park Sector. The other hatched areas hatched outside the Park Sector are proposed parks (according to the Greens Bayou Corridor Coalition Parks (GBCC) and Trails Master Plan) along Greens Bayou. The hatched areas are not accounted in the percentage for the areas served at this time, so the service area percentage is underestimated.

AMENITIES AND SERVICES



This map shows some of the community services available in this area: community centers, health centers, transit centers, schools, libraries, YMCAs, and Boys and Girls Clubs. There are three community centers located in Park Sector 2: Clark, Melrose, and Shady Lane Community Centers.

The Northside Health Center provides a variety of services: immunizations, STD services, TB services, family planning, benefits eligibility screening, Women, Infants and Children Program (WIC), pregnancy testing, speech and language therapy, cervical cancer screening, Hansen's Disease clinic, and mammogram screenings.

FIGURE 7. PARK SECTOR 2 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities-Level of Service

The 2007 HPARD standards by amenity have been applied to the amenities in Park Sector 2. The first column after the recommended HPARD standards indicates the level of service (LOS) accounting for HPARD facilities only, the total inventory standard accounts for facilities from all providers. Then, the standard for each amenity is compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these recommended HPARD standards, Harris County and other providers are meeting the needs of the residents for picnic shelters, outdoor basketball courts, tennis courts, outdoor spraygrounds, ball fields and soccer fields. This Park Sector is deficient in playgrounds (2), trails (11 miles), volleyball courts (1), dog parks (1), skate parks (1), community centers (1), and pools (1). A ground breaking for a 10-acre state-of-the-art skate park, Spring Skate Park, was held in January of 2013 and the facility opened in the Spring of 2014. This skate park meets the needs of the north Houston area. CityView Park offers a pavilion, and a garden and Buckboard Park offers a gazebo; both of these parks are maintained by the Greenspoint District.

	HPARD	**Harris County**	**Other Providers**	**Total**	**Recommended HPARD Standard**		**Current HPARD Level of Service**			**Current Total Inventory Level of Service**	**HPARD NEEDS** Over/ Under Service	**Total Inventory NEEDS** Over/ Under Standard
								Population		**97,367**		
Playgrounds	8	0	14	22	1	4,000	1	12,171	1	4,426	16	2
Picnic Shelters	11	0	1	12	1	10,000	1	8,852	1	8,114	-1	-2
Trails (developed, not natural, off-street)	4.9	2	1.44	8	0.2	1,000	0.05	1,000	0.09	1,000	15	11
Outdoor Basketball Courts	7	2	0	9	1	12,000	1	13,910	1	10,819	1	-1
Tennis	8	0	4	12	1	10,000	1	12,171	1	8,114	2	-2
Volleyball	1	0	0	1	1	50,000	1	97,367	1	97,367	1	1
Dog Parks	0	0	0	0	1	100,000	0	97,367	0	97,367	1	1
Skate Parks	0	0	0	0	1	100,000	0	97,367	0	97,367	1	1
Community Centers	3	0	0	3	1	30,000	1	32,456	1	32,456	1	1
Swimming Pools	1	0	0	1	1	50,000	1	97,367	1	97,367	1	1
Outdoor Spray-grounds	2	0	0	2	1	100,000	1	48,684	1	48,684	-1	-1
Baseball (Lit & Unlit)	12	0	2	14	1 field	30,000	1	8,114	1	6,955	-9	-11
Softball (Lit & Unlit)	4	0	0	4	1 field	30,000	1	24,342	1	24,342	-1	-1
Soccer (Lit & Unlit)	13	0	2	15	1 field	10,000	1	7,490	1	6,491	-3	-5

TABLE 8. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 2
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- Keith-Wiess Park received funds to execute a project of which the scope of work includes: 3 new soccer fields, irrigation, water well, parking lot, field and parking lot lighting, electrical service, bleachers, and side walks. The work was completed in April 2013.

- Shady Lane Park received $1.5 million in CIP funds and other private and public grants for a major renovation. The scope of the work consists of demolishing of existing playground equipment, picnic tables, benches and concrete pads and replacing these with new grading, drainage, sidewalks, concrete bordering, playground, swings, picnic tables, grills, benches, decomposing granite pathways, boulder placement and outdoor exercise equipment. The existing picnic shelter plaza was expanded and water spray features were constructed. The work was finished in October of 2013.

SUPPLEMENTAL MAP: Park Sector 2 Council Districts

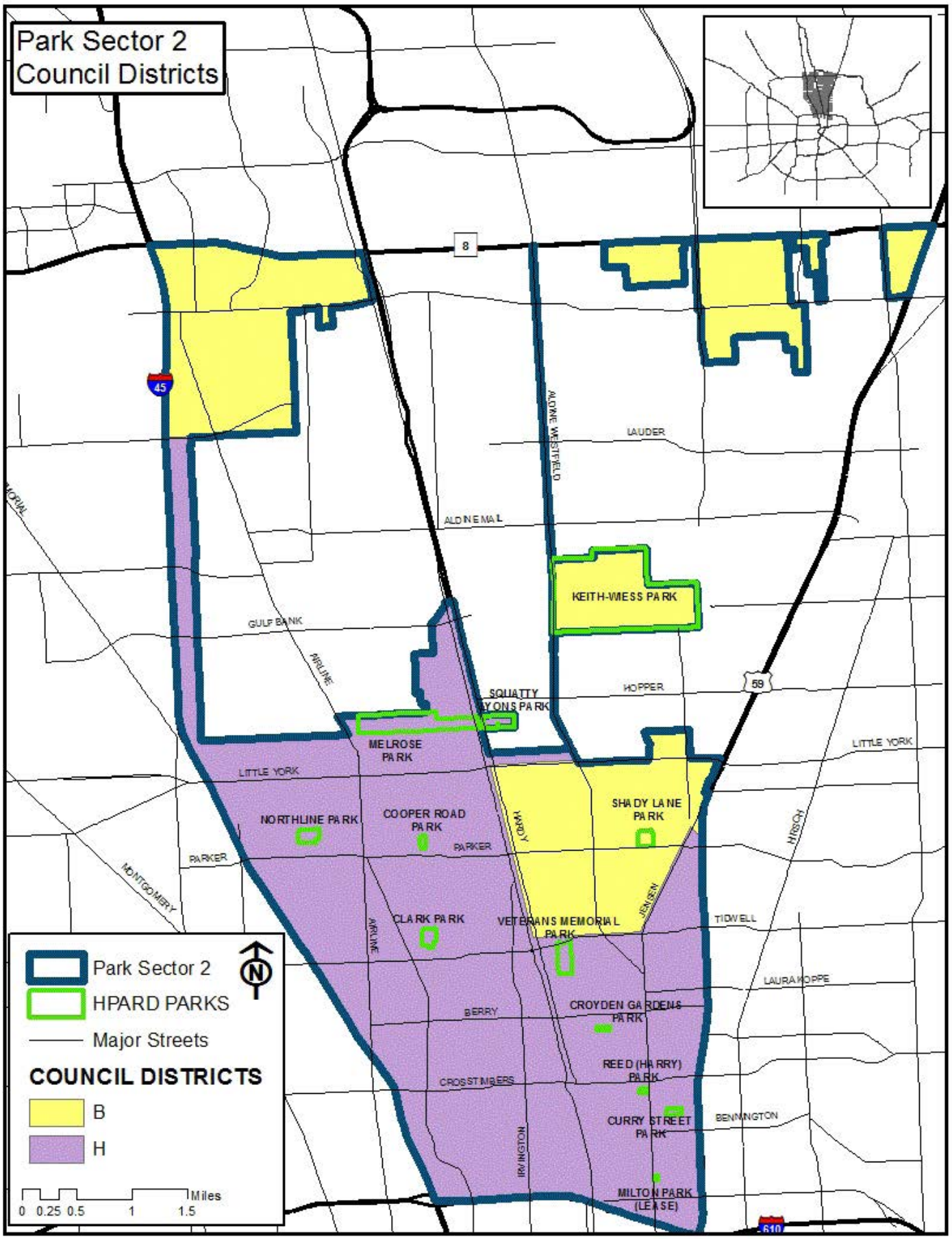


FIGURE 1: PARK SECTOR 2 COUNCIL DISTRICTS

Park Sector 2 Tax Increment Reinvestment Zones (TIRZs) and Management Districts

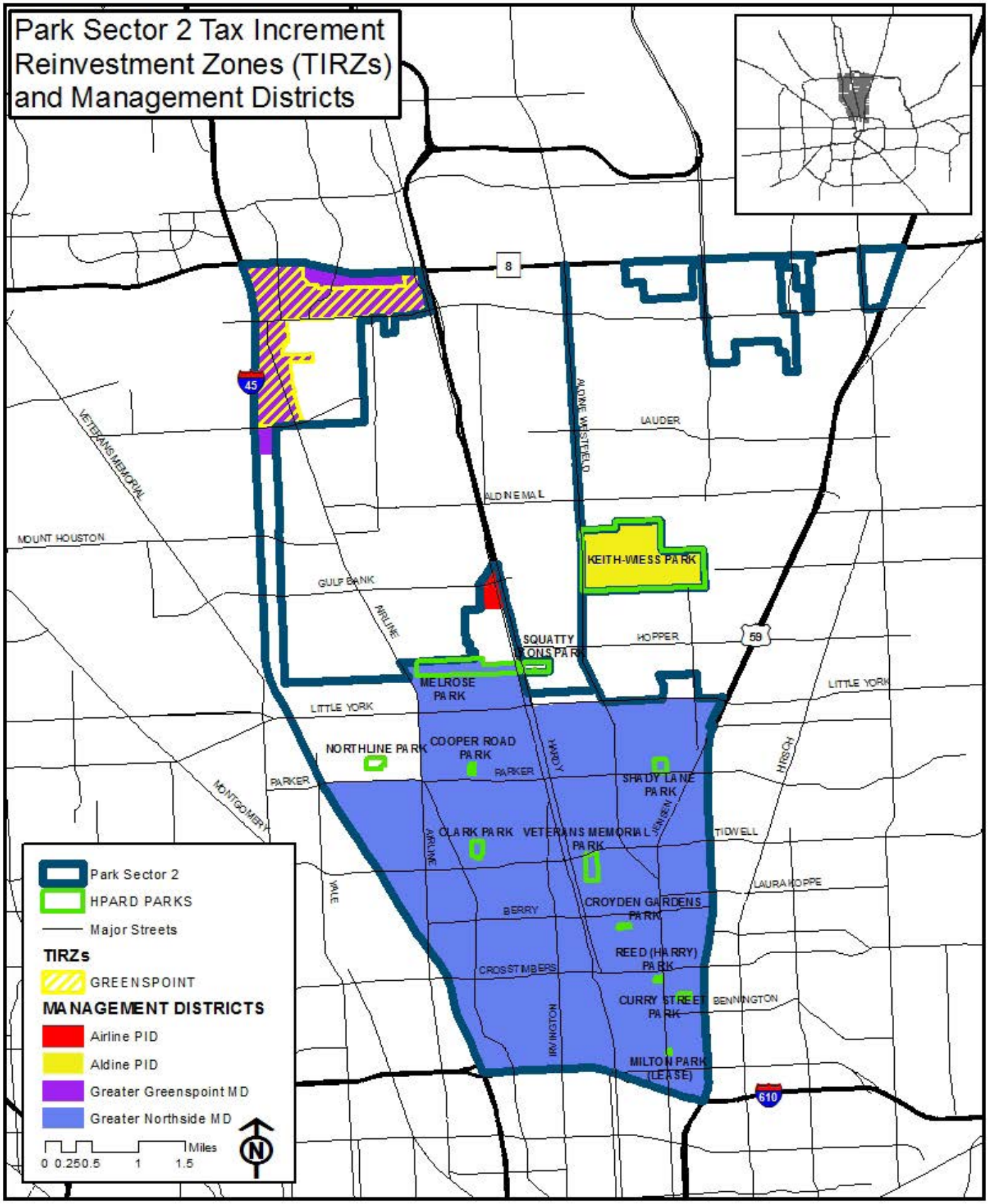


FIGURE 2: PARK SECTOR 2 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 2 Super neighborhoods

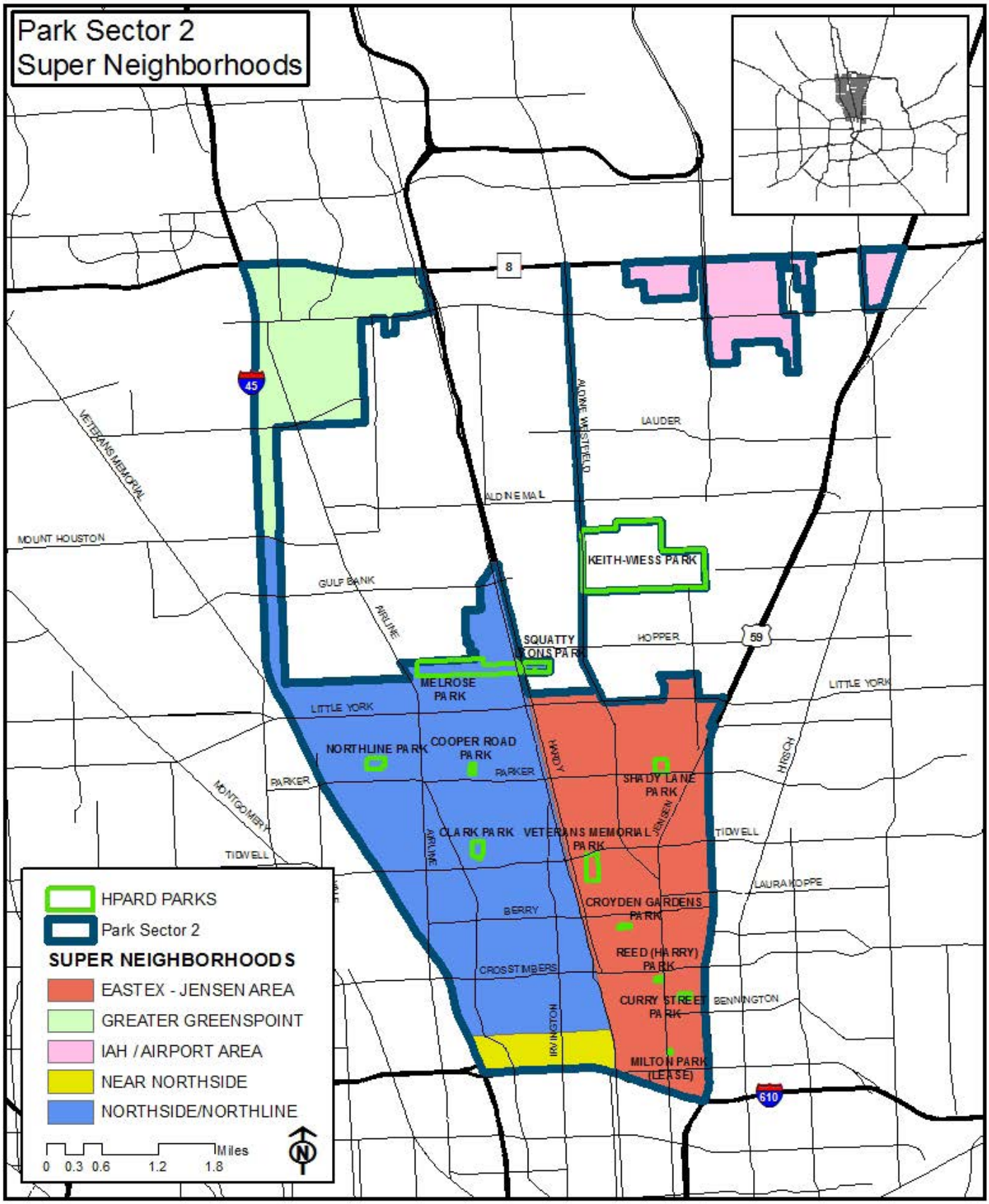


FIGURE 3: PARK SECTOR 2 SUPER NEIGHBORHOODS

Park Sector 2 Floodplain Areas

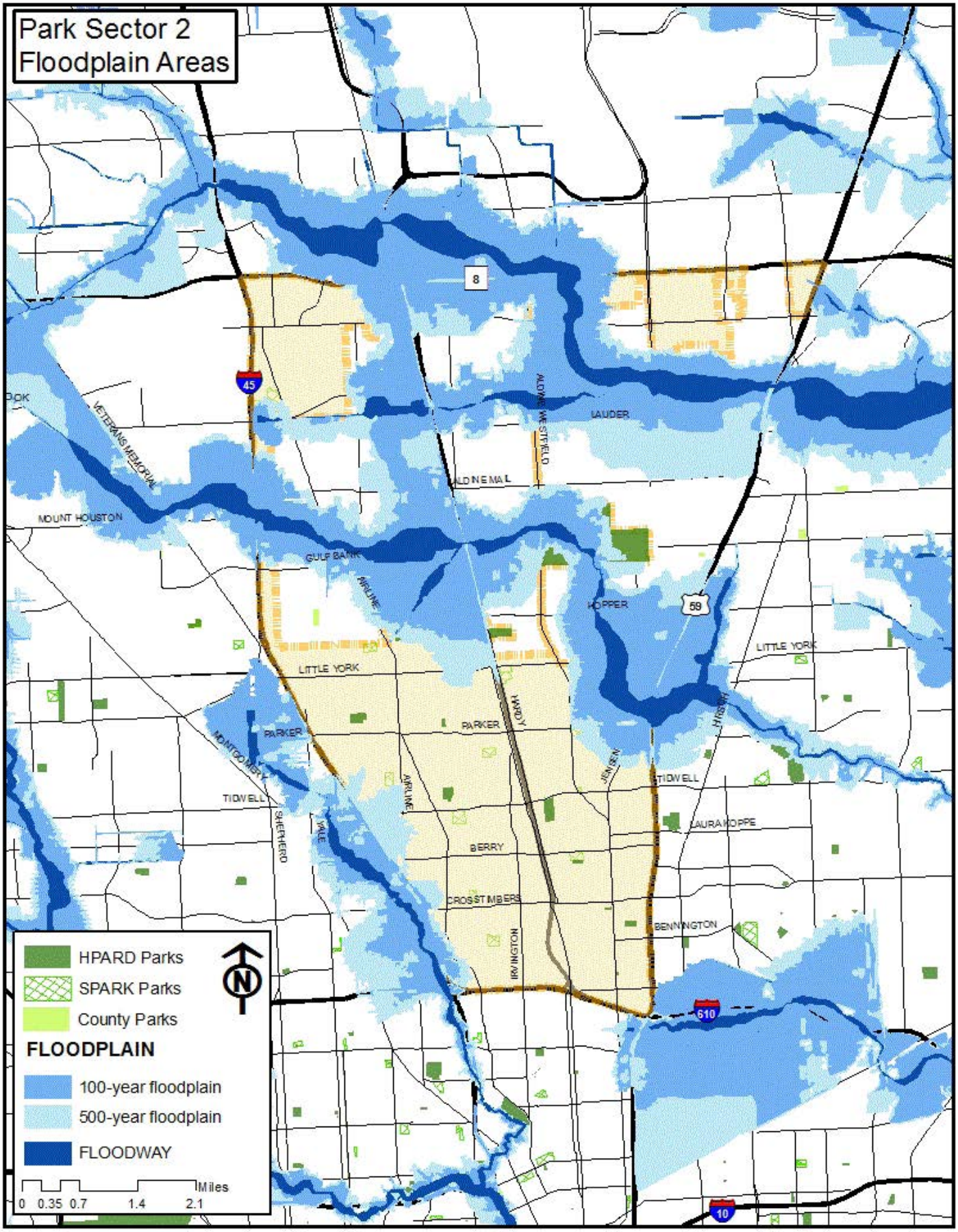


FIGURE 4: PARK SECTOR 2 FLOODPLAIN AREAS

PARK SECTOR 3

PARK SECTOR 3 SUMMARY

PARK SECTOR 3 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and data from the Trust for Public Land ParkScore™ Project), and public input via online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Preserve environmentally sensitive areas
2. Revitalize existing parks
3. Develop new park facilities
4. Develop Neighborhood connections to parks and trails
5. Acquire new parkland
6. Develop partnerships with the school system and other entities

RECOMMENDATIONS

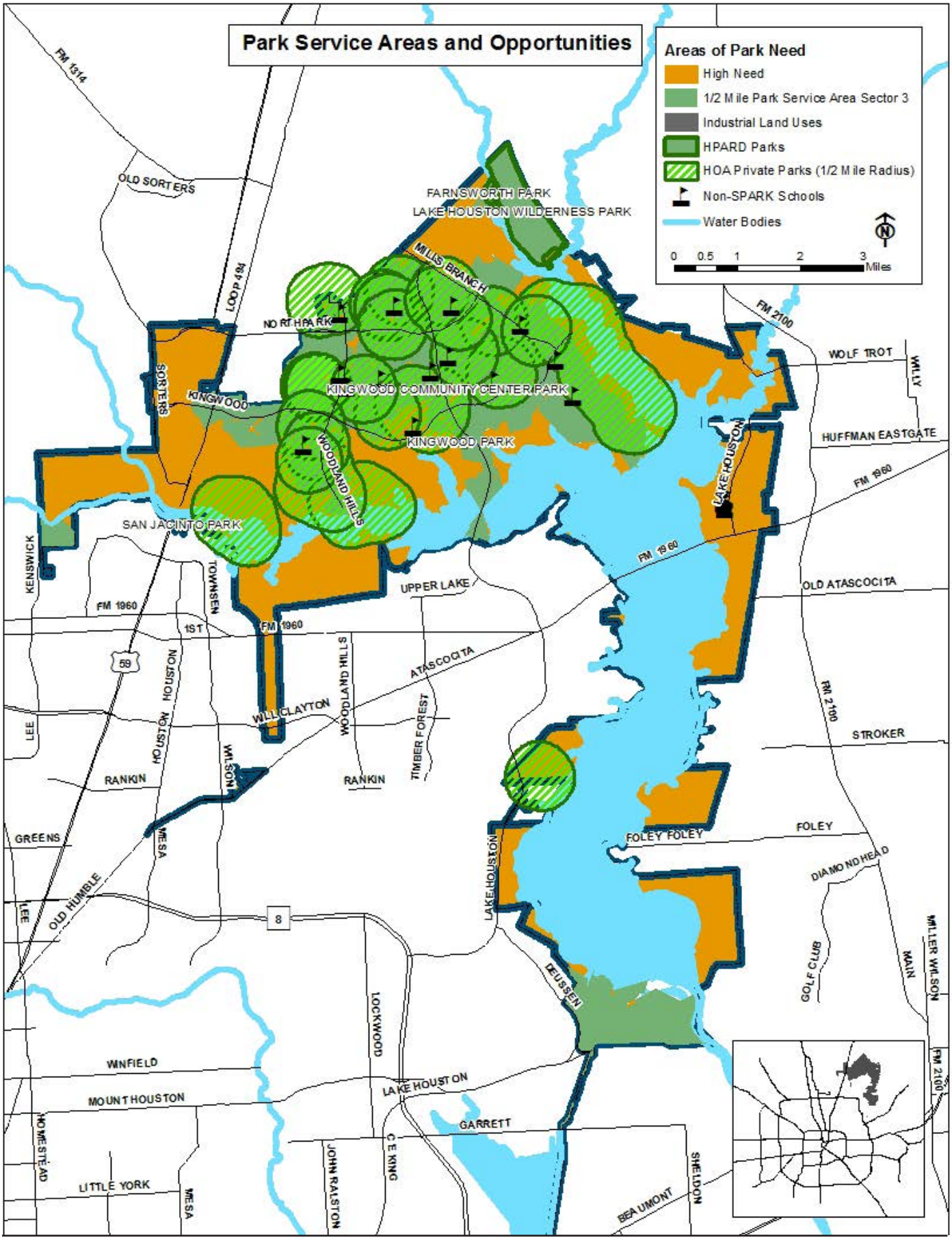
The park in Park Sector 3 that has the highest need for redevelopment is Dylan Duncan Memorial Skatepark. Farnsworth, Kingwood, and San Jacinto Parks are all undeveloped and could serve as sites for future amenities.

Over six acres of parkland are needed in this Park Sector. Schools not participating in the SPARK School Park Program (Non-SPARK schools) should be explored as potential future partnerships for park space. There are a multitude of private parks maintained by private Home Owner Associations in this Park Sector, primarily west of Lake Houston. Private parkland dedication through the Parks and Open Spaces Ordinance of the Planning Department's Chapter 42 has occurred in this Park Sector for new single-family subdivisions. As the private park model is the preferred park in this area, new subdivisions should be encouraged to dedicate land for their residents to keep up with the residential growth and the parkland level of service in the area.

This Park Sector is deficient in outdoor basketball courts and tennis courts. In the 2014 survey, the top three priorities of residents in Park Sector 3 when asked what recreational needs existed in their Neighborhood were: open space and natural areas, dog parks, and upgraded community centers. Other services and amenities that residents asked for in the write-in portion of the survey were: evening recreational programming, more connections into Lake Houston Wilderness Park, fitness programs, adult tennis programs, fishing activities, youth nature programs, adult softball leagues, dance and theater programs, and outdoor environmental education and camping.

A quarter of the population in this Park Sector is over 55 years old, which is a greater proportion of the population as compared to all other Park Sectors and the city as a whole of (19%). Over 37% of the population is obese compared to 30.1% for the City of Houston (City of Houston). Based on this health profile, partnerships focused on increasing physical activity levels and programming that promote healthy living should be explored.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Survey, Trust for Public Land
*Source H-GAC population projections by Park Sector


Park Service Areas and Opportunities
Areas of Park Need
High Need
1/2 Mile Park Service Area Sector 3
Industrial Land Uses
HPARD Parks
HOA Private Parks (1/2 Mile Radius)
Non-SPARK Schools
Water Bodies
0 0.5 1 2 3 Miles
FM 1314
OLD SORTERS
LOOP 494
FARNSWORTH PARK
LAKE HOUSTON WILDERNESS PARK
MILLS BRANCH
NORTH PARK
KINGWOOD COMMUNITY CENTER PARK
KINGWOOD PARK
WOODLAND HILLS
SAN JACINTO PARK
SORTERS
KINGWOOD
KENSWICK
TOWNSEN
FM 1960
1ST
59
HOUSTON
LEE
RANKIN
WILSON
MESA
GREENS
OLD HUMBLE
8
WILLCLAYTON
WOODLAND HILLS
TIMBER FOREST
ATASCOCITA
UPPER LAKE
FM 2100
WOLF TROT
WILLY
HUFFMAN EASTGATE
LAKE HOUSTON
OLD ATASCOCITA
STROKER
FOLEY
DIAMONDHEAD
GOLF CLUB
MAIN
MILLER WILSON
DEUSSEN
LOCKWOOD
WINFIELD
MOUNT HOUSTON
HOMESTEAD
LITTLE YORK
JOHN RALSTON
C E KING
GARRETT
SHELDON
BEAUMONT

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Total HPARD Pocket Park Acreage			**0.00**	
Neighborhood Parks				
Dylan Duncan Memorial Skate Park (formerly Kingwood Skate Park)	3950	Rustic Woods	1.02	N/A
Kingwood Community Center Park	4102	Rustic Woods Drive	2.52	N/A
Kingwood Park	2700	Bens Branch @ Bens View	4.28	N/A
San Jacinto Park	22100	US-59/San Jacinto River	8.92	N/A
Total HPARD Neighborhood Park Acreage			**16.74**	
Community Parks				
Farnsworth Park		Basin St./Walden Woods Subdivision	22.00	N/A
Total HPARD Community Park Acreage			**22.00**	
Regional Parks				
Lake Houston Wilderness Park	22031	Baptist Encampment Road	4,786.60	11.60
Total HPARD Regional Park Acreage			**4,786.60**	
Total HPARD Park Acreage			**4,825.34**	
Total HPARD Trail Length				**11.60**

EXISTING COMMUNITY CENTERS AND POOLS

Community Centers and Pool Facilities	Address	Zip Code	Agency Responsible
Kingwood Community Center Park	4102 Rustic Woods Drive	77018	HPARD
Kingwood Neighborhood Community Centers and Pools	Various locations	Various	HOAs/Neighborhood Associations

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to identify areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange represents areas where there is not access to a park within a ½ mile. The degree of need (orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger). The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Approximately 38% of the area in this Park Sector is in need of parkland accessible within a ½ mile, as compared to the 45% of the population of the City of Houston who need park access. Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains 6,790 acres of parkland (Harris County, HPARD and other providers) and 12 miles of HPARD trails. Of the 39,948 acres in this Park Sector, 17% of this acreage is parkland.
- There are over 70,000 residents. Over 77% of the population is Non-Hispanic White (higher than the City of Houston 26%).
- An additional 6.4 acres of parkland are needed. This is based on the current population (2010 US Census) of the Park Sector and needs assessment done for Pocket, Neighborhood and Community parks (number of acres per 1,000 people).
- H-GAC population projections estimate that this area will add over 65,000 residents by 2040. To meet the parkland needs for the estimated 2040 population an additional 67 acres of parkland will be needed.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and standards used in the 2007 Master Parks Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	24	10	85	6	7	2	1	1	8	12	1	10	5	17
2015 Existing	24	10	85	4	4	2	1	1	8	12	1	10	5	17
2015 Needed	-	-	-	2	3	-	-	-	-	-	-	-	-	-
2040 Needed	4	1	-	5	7	-	-	-	-	-	-	-	-	-

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.
2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.
3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.
4. Annual Operation and Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation per resident in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$4,000,000	6.4 Acres- $300,000	$3,000,000	$5,000,000
2040	$12,000,000	67 Acres- $3,000,000	$12,000,000	$4,000,000
TOTAL 2040	$16,000,000	73 Acres- $3,300,000	$15,000,000	$9,000,000

PARK SECTOR PROFILE 3

LOCATION AND POLITICAL BOUNDARIES

Park Sector 3 is located east of US 59, north of Beltway 8, and west of US 90
Park Sector Size: 39,948 acres or 62.4 square miles (12,140 acres or 18.7 miles are from the Lake Houston Reservoir)
Population: 70,936 people, Density: 1,137 persons/sq. mi or 1,623 persons per square mile excluding Lake Houston
Political Boundaries within Park Sector 3:

- Council District E
- Super neighborhoods contained in this Park Sector: Kingwood Area and Lake Houston
- TIRZ: Lake Houston
- Management Districts: N/A

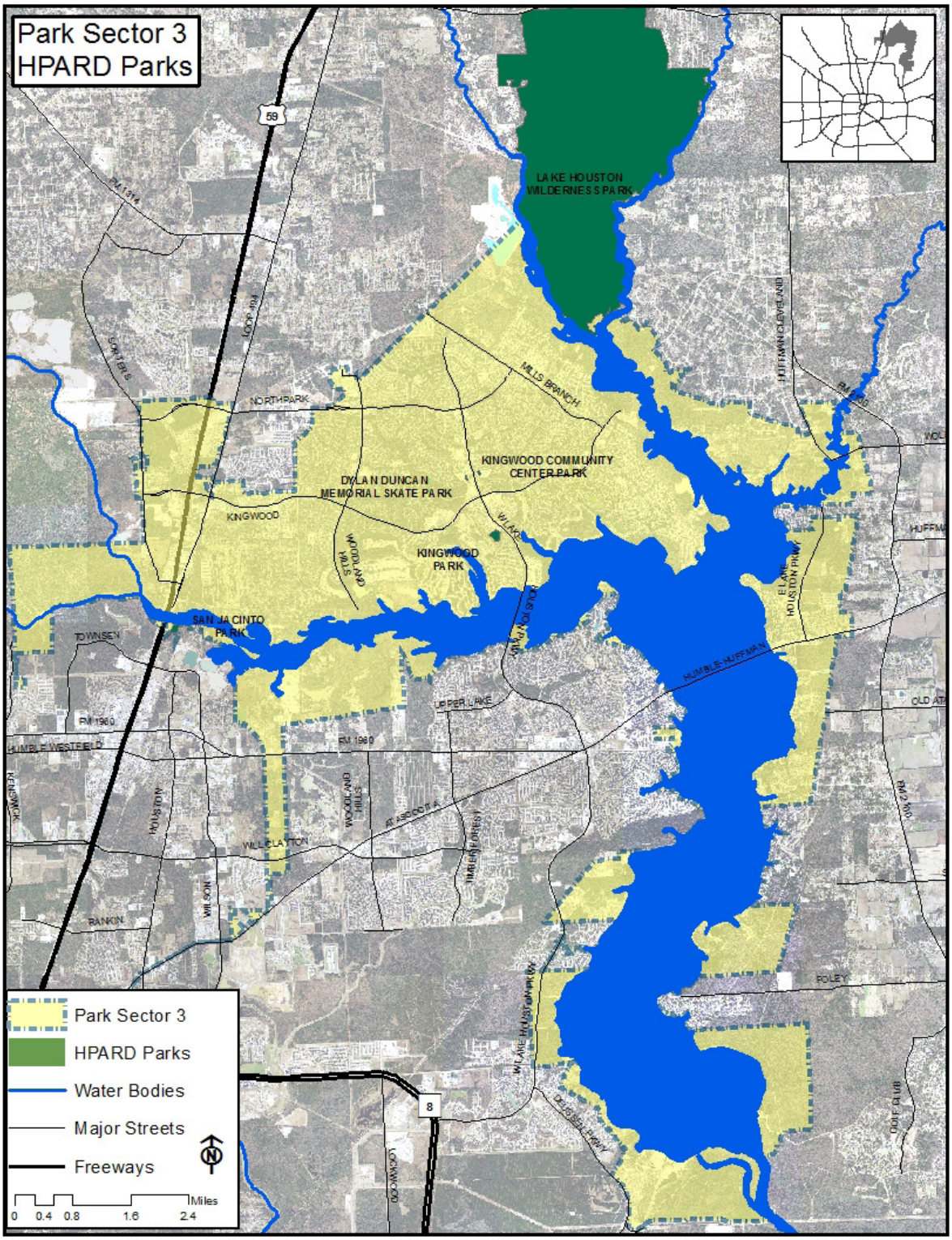


FIGURE 1. PARK SECTOR 3 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 3 Population	Park Sector 3 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**70,936**	-	2,119,831	-
Hispanic or Latino	9,101	12.8%	919,668	43.8%
Non-Hispanic White	54,689	77.1%	537,901	25.6%
Non-Hispanic Black	3,597	5.1%	485,956	23.1%
Non-Hispanic American-Indian	230	0.3%	126,098	6.1%
Non-Hispanic Asian	2,108	3.0%		
Non-Hispanic Hawaiian or Pacific Islander	71	0.1%		
Non-Hispanic Some Other Race	1,440	1.6%	26,828	1.3%

TABLE 1. PARK SECTOR 3 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains about 3.3% of the population of Houston; the majority (77%) of the residents are Non-Hispanic Whites, Latinos (13%), followed by Non-Hispanic Blacks (5%), and Non-Hispanic Asians (3%). The most dense portions of the Park Sector are the areas north of Lake Houston.

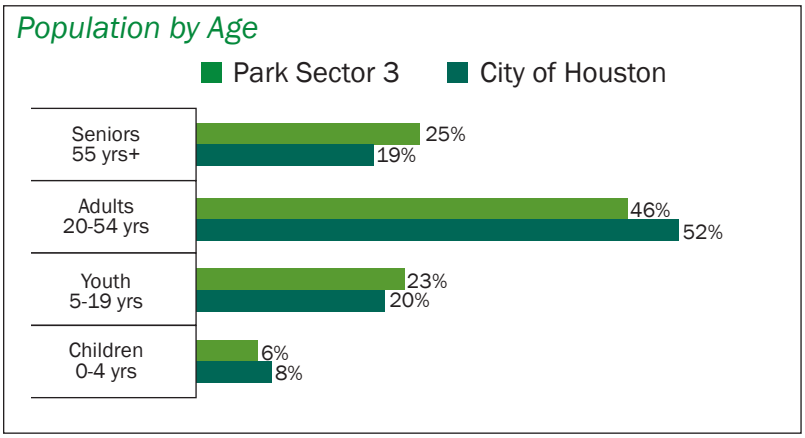


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 3 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that the percent of population under 19 (29%) is very close to the percentage of the rest of the city (28%). Further breakdown of the age groups, as shown in Figure 2., reveals that the age group between 0-4 years old is smaller and the equivalent for the entire city (6% vs. 8%) and that the percentage of adults 55 and older makes up a quarter of the population (25%) which is significantly higher than that of the City of Houston (19%). This age break down might indicate that people in this portion of the city are aging in place. The percentage of adults 20-54 years old (46%) is lower than the entire City of Houston (52%). These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 3 Population	PS 3 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	3,916	6%	6%	166,066	8%	8%
Youth	5-9 yrs	4,853	7%	23%	148,843	7%	21%
	10-14 yrs	5,672	8%		135,622	7%	
	15-19 yrs	5,240	8%		140,673	7%	
Adults	20-34 yrs	10,619	16%	46%	539,348	26%	52%
	35-44 yrs	9,464	14%		286,117	14%	
	45-54 yrs	11,219	16%		265,060	13%	
Senior	55-64 yrs	9,363	14%	25%	204,852	10%	19%
	65 yrs +	7,823	11%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 3 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 26,599 housing units in this Park Sector. The percent of vacant housing in Park Sector 3 (7.1%) is much lower than the vacancy rates for the entire city (12.3%). Home ownership for this Park Sector (69.8%) is the highest in the city, which as a whole has a 39.7% home ownership rate. Similarly, the share of renters is 23 %, which is about half of that of the city's as a whole at 47.1%.

Income

The median household income for this Park Sector ($84,714) is the highest in the entire city, with that of the City of Houston being $48,322. According to the City of Houston Housing and Community Development data (low to moderate income derived from 2000 Census as per federal regulations) 12.8% of the population is comprised of those with low to moderate income levels.

Educational Attainment

Within Park Sector 3 the percent (45%) of individual 25+ years of age with a Bachelor's degree or above is significantly higher than the relative percent for the entire City of Houston (28%). Conversely, the percentage of those within this Park Sector without a high school degree (6%) is almost three times less than for the same population for the City of Houston (25%).

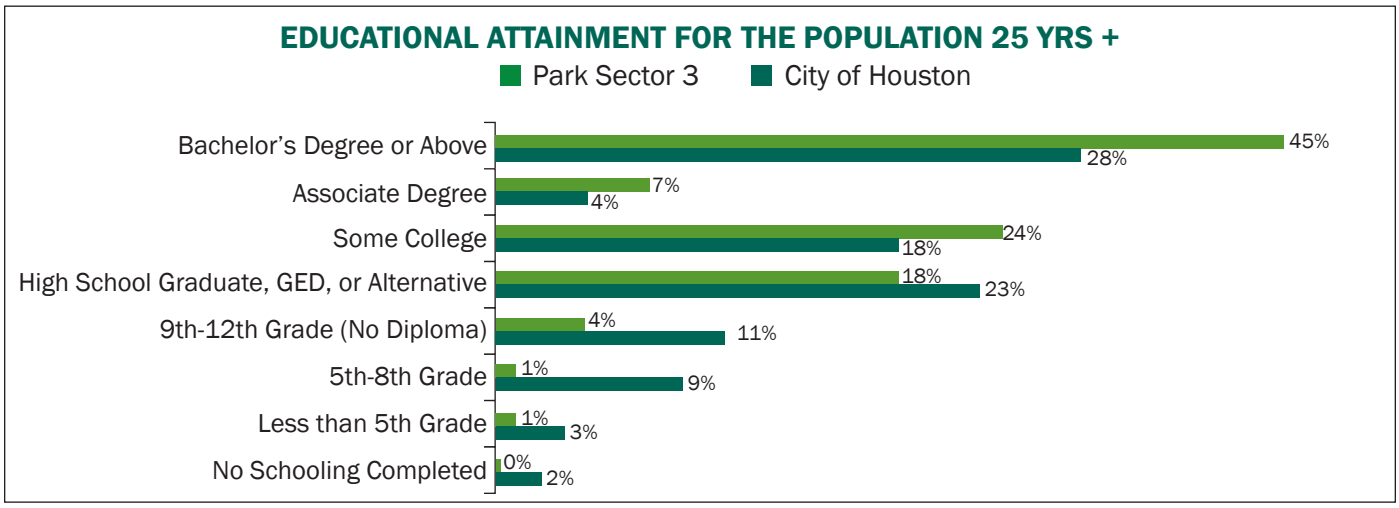


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 37.1% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that 16.8% of the adult population received a diagnosis of diabetes by a professional, which is above the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that over 27% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is lower than that of the entire city (32%).

The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%. Finally, the survey shows that almost a third of the population in this Park Sector (32.5%) does not engage in moderate physical activity at all, which is much higher than the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

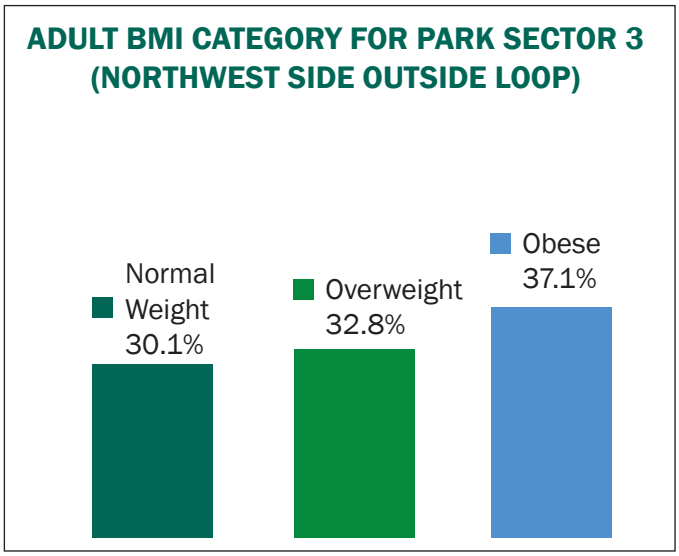


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	32.50
1	7.60
2	11.60
3	9.50
4	11.70
5	13.10
6	6.40
7	7.70

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

Park Sector 3 straddles 2 counties, both Harris and Montgomery. This Park Sector has a significant number of residential parcels (75.7%), with single-family parcels (74.5%) comprising the majority of these. However, the residential land use only accounts for a quarter (25.6%) of the acreage in this Park Sector. The majority of the acreage, over 66%, is classified undeveloped, agricultural production or parks and open space. Lake Houston Reservoir comprises 12,240 acres inside this Park Sector.

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	21,608	74.5%	6,577	24%
Multi-Family	346	1.2%	333	1.2%
Commercial	231	0.8%	244	0.9%
Office	98	0.3%	71	0.3%
Industrial	62	0.2%	1,348	4.9%
Public & Institutional	62	0.2%	473	1.7%
Transportation	45	0.2%	147	0.5%
Parks & Open Space	157	0.5%	1,621	5.9%
Undeveloped	5,517	19.0%	8,546	31.2%
Agriculture Production	888	3.1%	8,060	29.4%
TOTAL	29,014	100%	27,420	100%

TABLE 4. LAND USE BY DESCRIPTION (2013 HCAD)

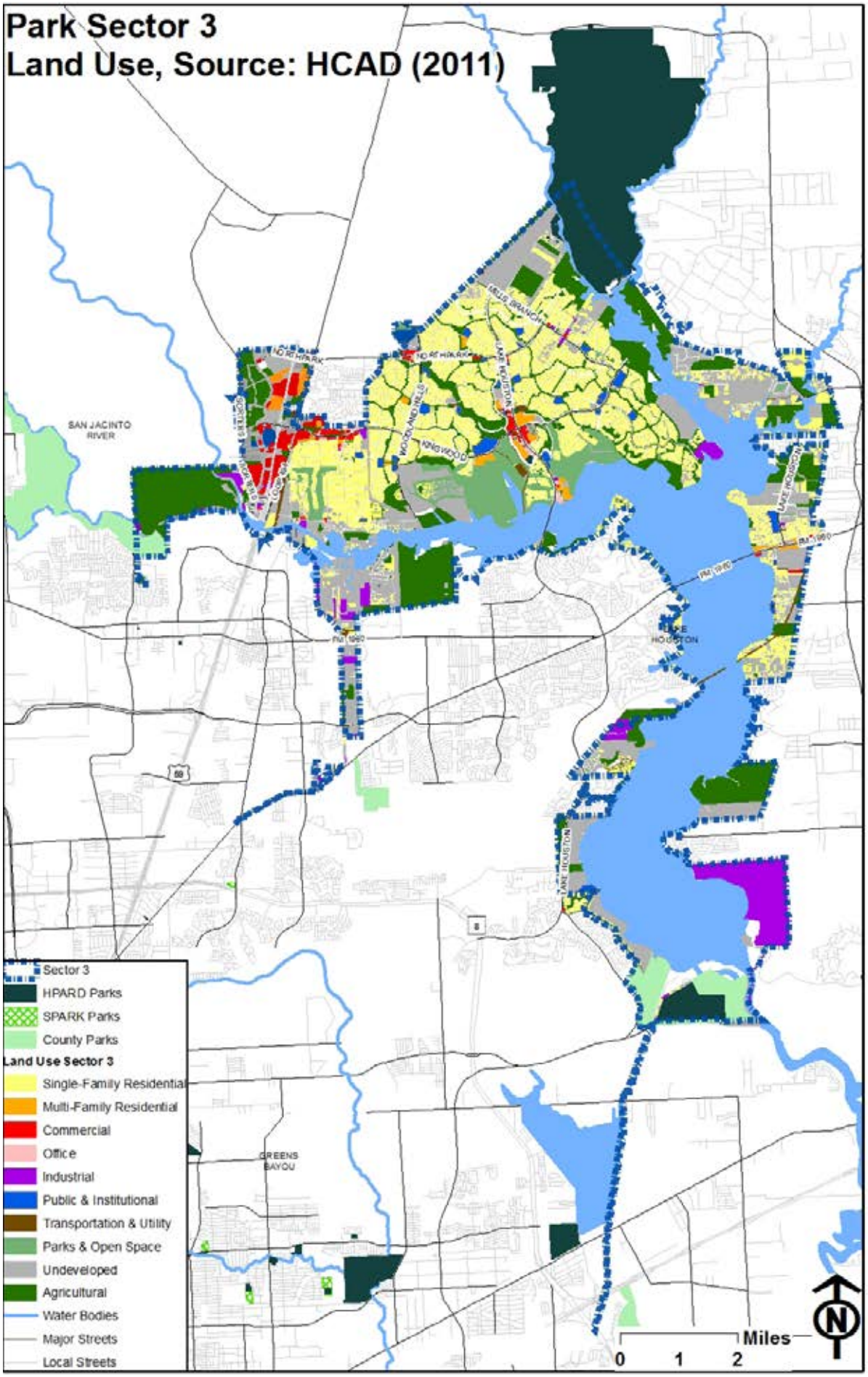


FIGURE 5. PARK SECTOR 3 LAND USE MAP (2011 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

HPARD PARKS AND TRAILS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Total HPARD Pocket Park Acreage			**0.00**	
Neighborhood Parks				
Dylan Duncan Memorial Skate Park (formerly Kingwood Skate Park)	3950	Rustic Woods	1.02	N/A
Kingwood Community Center Park	4102	Rustic Woods Drive	2.52	N/A
Kingwood Park	2700	Bens Branch @ Bens View	4.28	N/A
San Jacinto Park	22100	US-59/San Jacinto River	8.92	N/A
Total HPARD Neighborhood Park Acreage			**16.74**	
Community Parks				
Farnsworth Park		Basin St./Walden Woods Subdivision	22.00	N/A
Total HPARD Community Park Acreage			**22.00**	
Regional Parks				
Lake Houston Wilderness Park	22031	Baptist Encampment Road	4,786.60	11.6
Total HPARD Regional Park Acreage			**4,786.60**	
	Total HPARD Park Acreage		**4,825.34**	
	Total HPARD Trail Length			**11.6**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 3

Lake Houston Wilderness Park has 11.6 miles of natural trails located at the most northwesterly portion of the park. All of Lake Houston Wilderness Park is owned and maintained by HPARD. This park is considered as serving the entire Houston region. Harris County parks Alexander Deussen and Jesse H. Jones have a total of 8.3 miles.

Kingwood has over 65 miles of trails connecting the community (PWE Bikeway GIS). Kingwood information cannot be verified and may not be updated since each of the villages has a password protected access to the information and trail maps are only given to residents of Kingwood. According to the Kingwood website, Kingwood Service Association maintains 75 miles in the Kingwood Greenbelt; however, the map in Figure 6 only accounts for 65 miles.

A 10-mile portion of Spring Creek trail runs from Jesse H. Jones Park to the San Jacinto River. Phase II of the development of the trail began in March 2012 and continues going north on Spring Creek towards the Hardy Toll Road. At build-out, the trail will be at least 33 linear miles long.

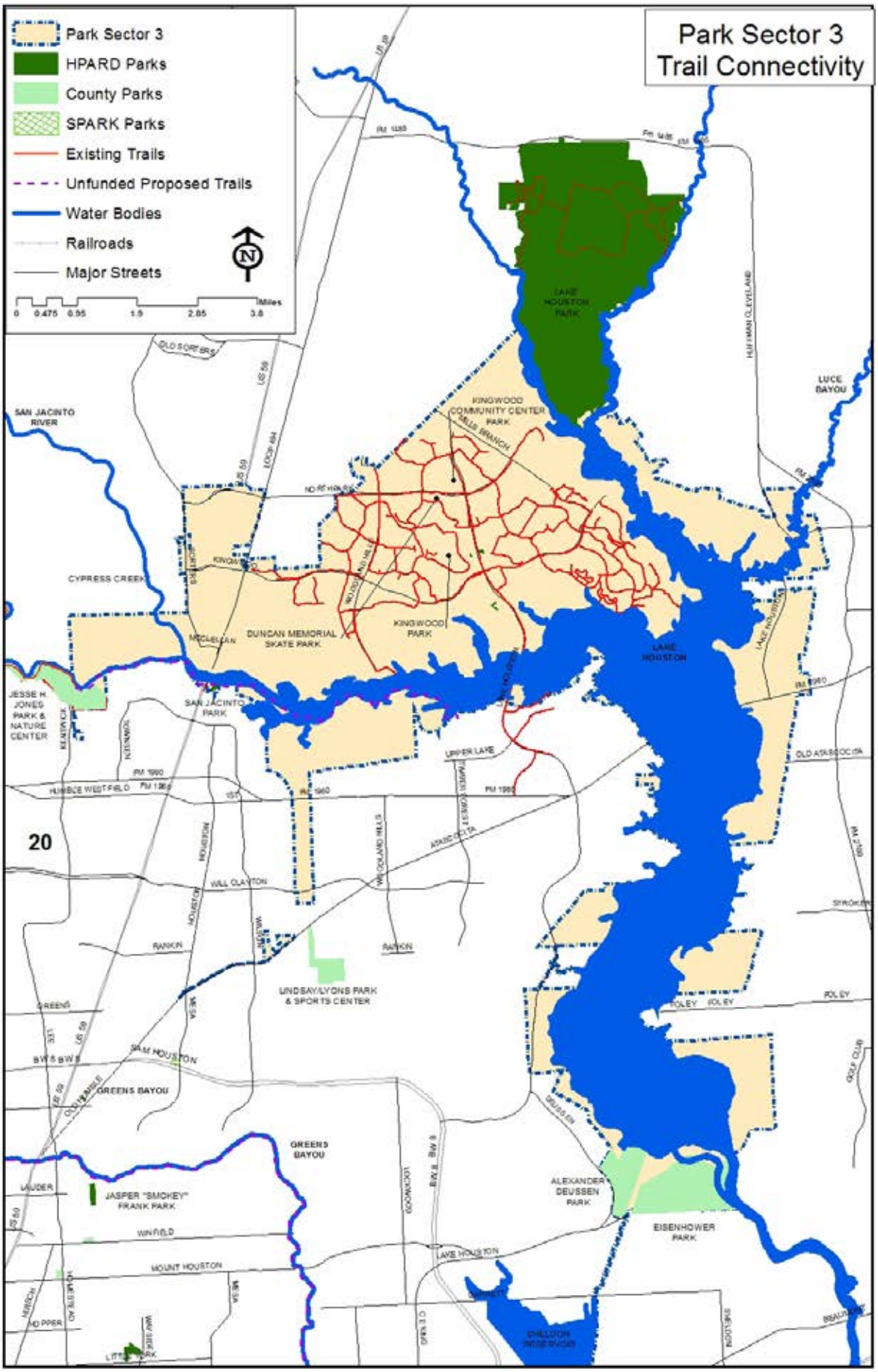


FIGURE 6. PARK SECTOR 3 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

EXISTING PARK FACILITIES

County Parks and Trails

County Park				
Facility Name	**Address**	**Street**	**Total Acres**	**Trail Length**
Alexander Deussen Park	12303	Sonnier Street	309.00	2.30
Dwight D. Eisenhower Park	13400	Aqueduct Road	682.50	N/A
Jesse H. Jones Park and Nature Center	20634	Kenswick Drive	312.00	6.00
		Total HC Park Acreage	**1,303.50**	
		Total HC Trail Length		**8.30**

TABLE 6. TRAILS INTERNAL TO COUNTY PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 3

SPARK Parks

There are no SPARK Parks in Sector 3.

Open and Green Space

To determine level of service the 2007, Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by The Trust for Public Land ParkScore™ Project. Figure 6 below shows the level of service (LOS) based on the 2007 HPARD recommended standards of a number of acres per 1,000 people using the 2010 Census population. HPARD recommends standards per park type (2007 HPARD Master Plan Criteria Facility Needs) of 0.005 acres/1,000 people for a Pocket Park; using this standard Park Sector 3 meet this need for Pocket Parks. For the HPARD recommended standards per park type of 1.5 acres/1,000 people for a Community Park, Park Sector 3 also meets this standard. According to the HPARD recommended standards per park type of 1 acres/1,000 people for a Neighborhood Park, Park Sector 3 needs 6.39 acres of parkland. The analysis for level of service and needs is shown below.

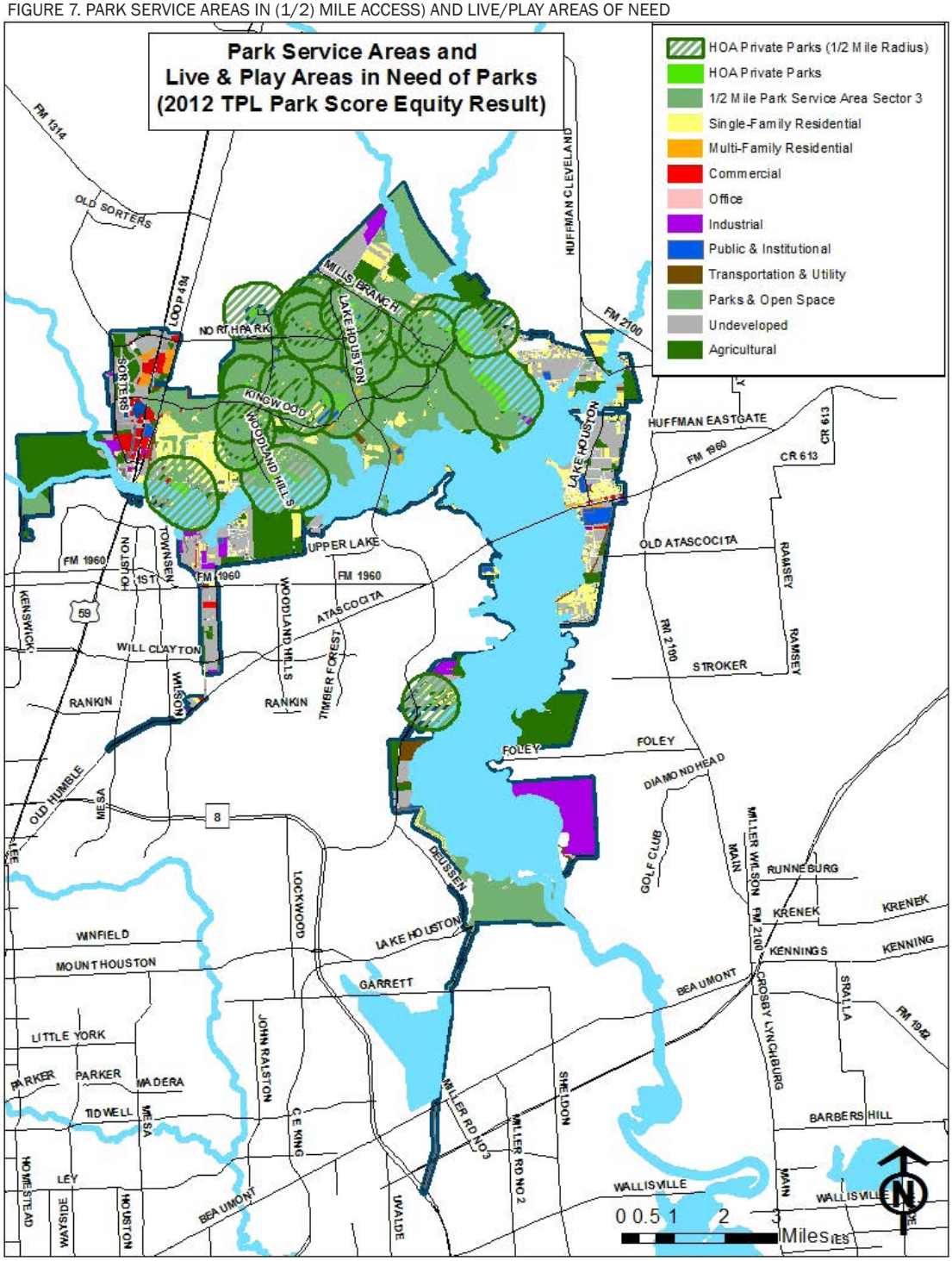
Park Type	HPARD Park Number	HC Park Number	Other Providers	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
										Population	**70,936**	
Pocket Park (<1 acre)	0	0	1	0	0	0.6	0.6	0.005 ac/ 1,000 people	-	-	0.35	-0.25
Neighborhood Park (1-15 acres)	4	0	17	16.74	0	47.81	64.6	1 ac/1,000 people	0.24	0.91	54.20	6.39
Community Park (16-150 acres)	1	2	5	22.00	621.0	295.5	938.5	1.5 ac/1,000 people	0.31	13.23	84.40	-832.09
Regional Park (151+ acres)	1	1	1	4,786.60	682.5	322.85	5791.95	8.0 ac/1,000 people				
TOTAL	**6**	**3**	**24**	**4,825.3**	**1,303.5**	**666.75**	**6,789.93**				**138.95**	**6.39**

FIGURE 7. PARK SECTOR 3 HPARD LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need

It is worth mentioning that almost 6 acres of land have been dedicated as private parks (to be maintained by HOAs) in this area as park of the Parks and Open Spaces Ordinance which required developers to either pay a fee-in-lieu or dedicate private or public parks.

Kingwood has at least 21 parks accounting for 660 acres maintained by the Kingwood Service Association (KSA). It is possible that there are additional parks in the area, but the information is not readily available and will need to be validated by residents. Figure 7 includes all of the parks maintained by the KSA and also those dedicated by developers to meet the requirements of the ordinance.

FIGURE 7. PARK SERVICE AREAS IN (1/2) MILE ACCESS) AND LIVE/PLAY AREAS OF NEED



Another way to measure the level of service provided by parks is by looking at a "walkable" distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ Project mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project. The areas in green on the map in Figure 7 represent the area within ½ mile of existing parks not blocked by freeways or major roads. Roughly 38% of the live/play areas in this Park Sector are not served by a park, which is much lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, the Lake Houston Reservoir, and acreage of private parks from the total acreage of the Park Sector. The majority of residential areas are served; however, there are small Pockets of residential development in the eastern portion of the Park Sector that are not being served by a public or a private park. Additional development of vacant acreage is occurring in this Park Sector and some private park dedication is being provided to new residents. The hatched areas are not accounted in the percentage for the areas served at this time, so the service area percentage is underestimated.

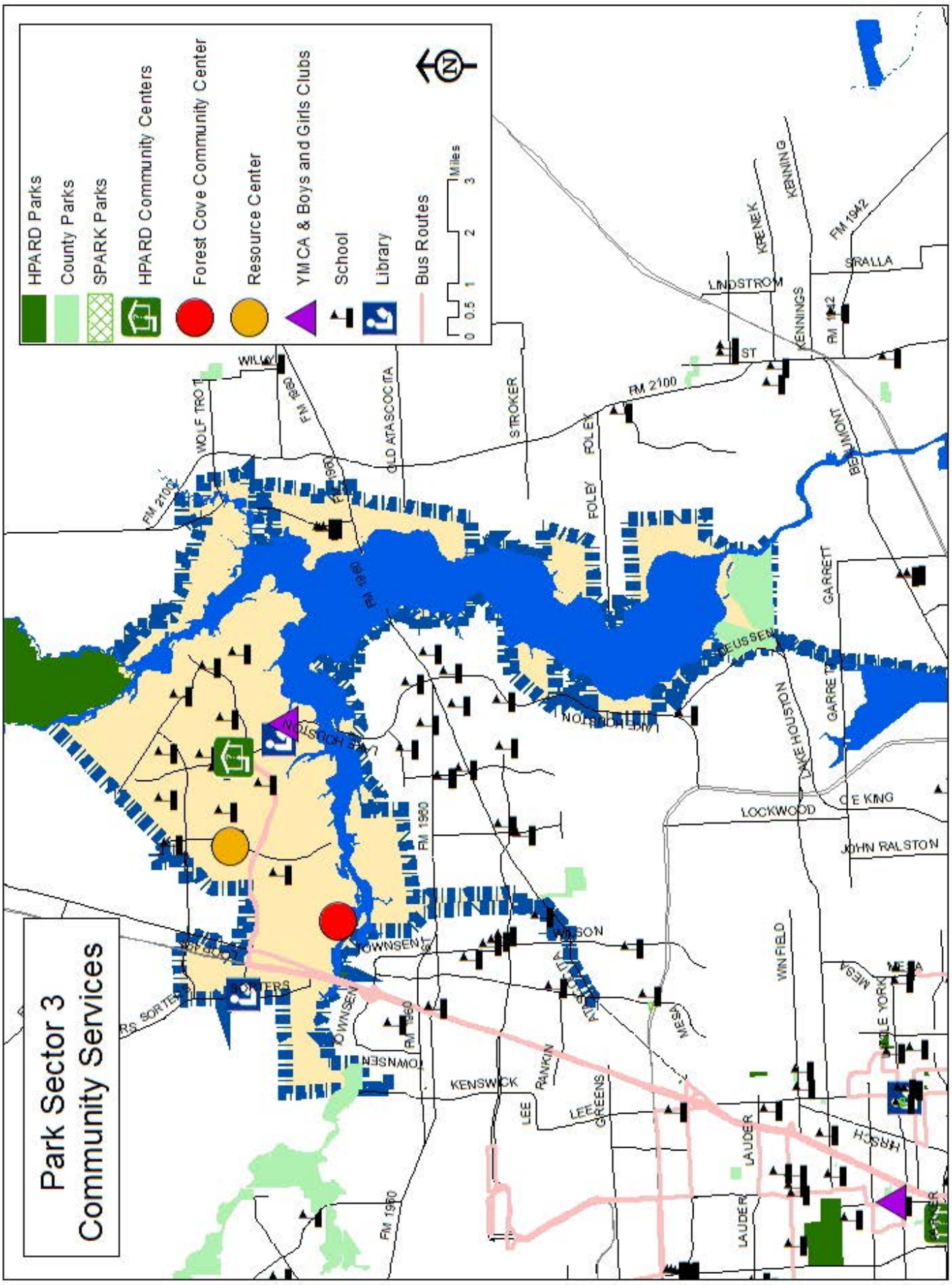


FIGURE 8. PARK SECTOR 3 COMMUNITY SERVICES AND PUBLIC TRANSIT

The previous map shows some of the community services available in this area: community centers, resource centers, schools, libraries, YMCAs, and Boys and Girls Clubs. There are two community centers and one resource center located in Park Sector 3: Kingwood and Forest Cove Community Centers and Will's Kids.

The Kingwood Service Center provides many services, such as: senior programs, a variety of exercise and craft classes and facility rentals for events and special programs. The Forest Cove Community Center offers: a private Neighborhood community center providing special events for the community and facility rentals for private events or programs for Forest Cove Community members. Will's Kids is also located in this Park Sector and offers: a need-based program that provides ongoing private lessons in sports, tutoring, scholarships and technology acquisition, a club which mentors middle and high school aged kids in science and math, and an after-school program for elementary kids focusing on fine arts and sports. The libraries in this Park Sector provide computer access, community meeting space, and educational programs.

Amenities-Level of Service

The 2007 HPARD standards by amenity have been applied to the amenities in Park Sector 3. The first column after the recommended HPARD standards indicates the level of service (LOS) accounting for HPARD facilities only, the total inventory standard accounts for facilities from all providers. Then, the standard for each amenity is compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these recommended HPARD standards, Harris County and other providers are meeting the needs of the residents for playgrounds, picnic shelters, volleyball courts, dog parks, skate parks, community centers, swimming pools, outdoor spraygrounds, ball fields, and soccer fields. This Park Sector is deficient in outdoor basketball courts (2), and tennis courts (3). Since information about Kingwood Parks is not easily accessible, it is possible that these amenities exist in some of the parks.

	HPARD	**Harris County**	**Other Providers**	**Total**	**Recommended HPARD Standard**		**Current HPARD Level of Service**		**Current Total Inventory Level of Service**		**HPARD NEEDS** Over/ Under Service	**Total Inventory NEEDS** Over/ Under Standard
							Population		**70,936**			
Playgrounds	0	5	19	24	1	4,000	1	70,936	1	2,956	18	-6
Picnic Shelters	2	2	6	10	1	10,000	1	35,468	1	7,094	5	-3
Trails	11.6	8.3	65	85	0.2	1,000	0.05	1,000	1.2	1,000	3	-71
Outdoor Basketball Courts	0	0	4	4	1	12,000	0	70,936	1	17,734	6	2
Tennis	0	0	4	4	1	10,000	1	70,936	1	17,734	7	3
Volleyball	1	0	1	2	1	50,000	1	70,936	1	35,468	1	0
Dog Parks	0	0	1	1	1	100,000	0	70,936	1	70,936	1	0
Skate Parks	1	0	0	1	1	100,000	0	70,936	1	70,936	0	0
Community Centers	1	0	7	8	1	30,000	1	70,936	1	8,867	1	-6
Swimming Pools	0	0	12	12	1	50,000	1	70,936	1	5,911	1	-11
Outdoor Spraygrounds	0	0	1	1	1	100,000	1	70,936	1	70,936	1	0
Baseball (Lit & Unlit)	0	3	7	10	1 field	30,000	1	70,936	1	7,094	2	-8
Softball (Lit & Unlit)	0	0	5	5	1 field	30,000	1	70,936	1	14,187	2	-3
Soccer (Lit & Unlit)	0	0	17	17	1 field	10,000	1	70,936	1	4,173	7	-10

TABLE 8. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 3
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- Dylan Duncan improvements for skate park are planned.
- Lake Houston has been allotted $1 million for plans to install a one lane vehicular bridge over Peach Creek, 3 new cabins, and a restroom facility on the west side of the lake. The work was completed in 2015.

SUPPLEMENTAL MAP: Park Sector 3 Council Districts

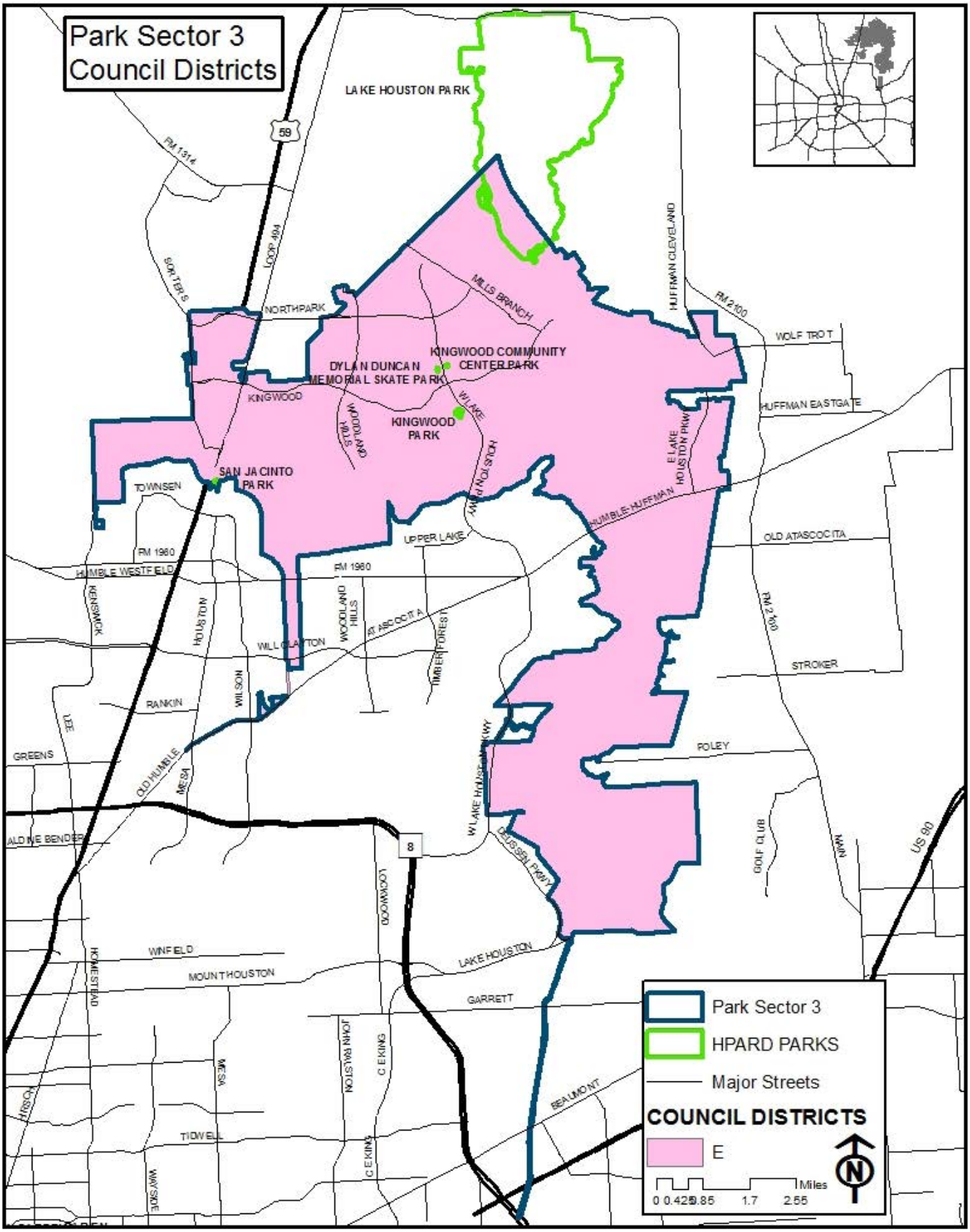


FIGURE 1: PARK SECTOR 3 COUNCIL DISTRICTS

Park Sector 3 Tax Increment Reinvestment Zones (TIRZs) and Management Districts

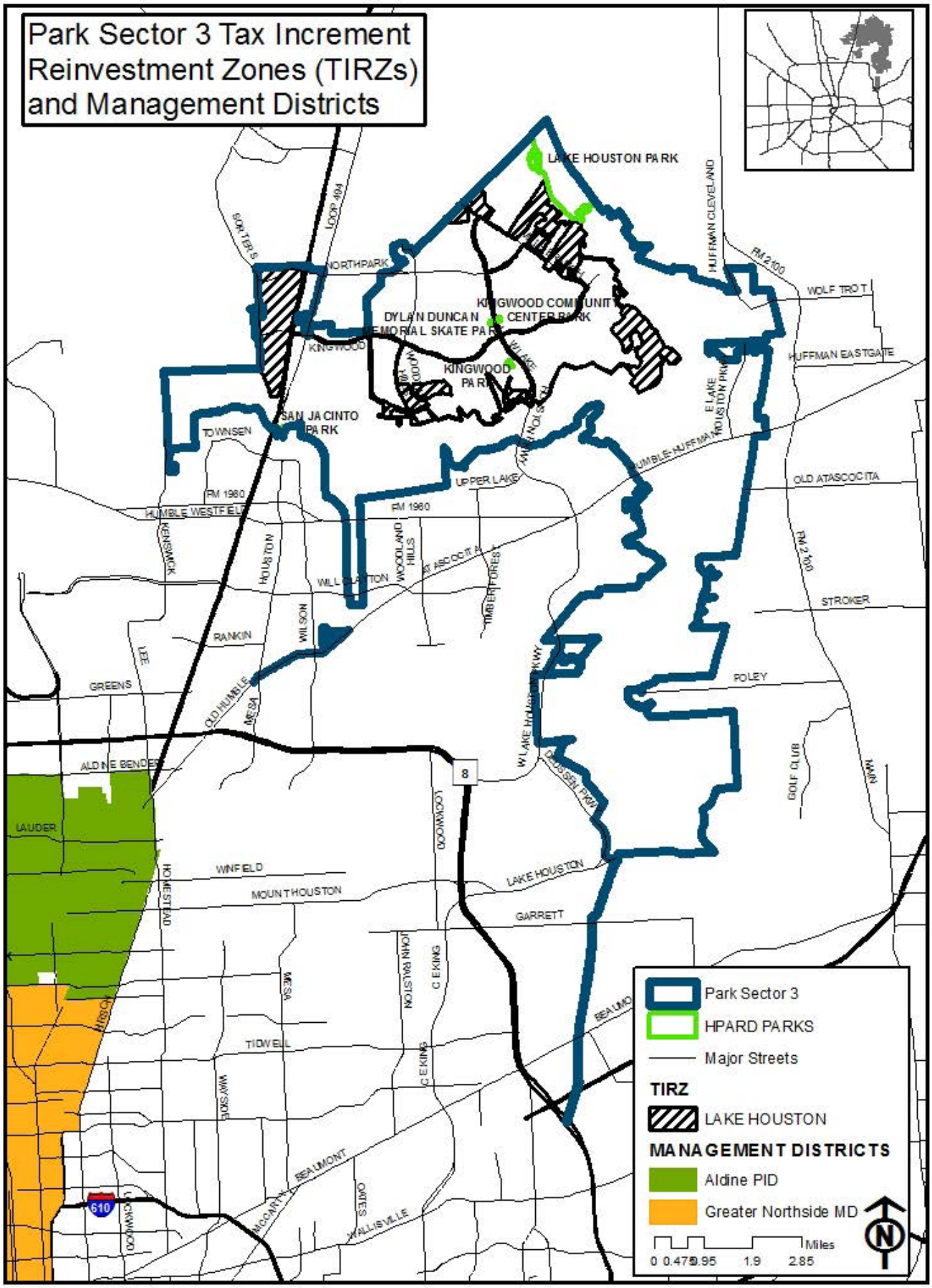


FIGURE 2: PARK SECTOR 3 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 3 Super neighborhoods

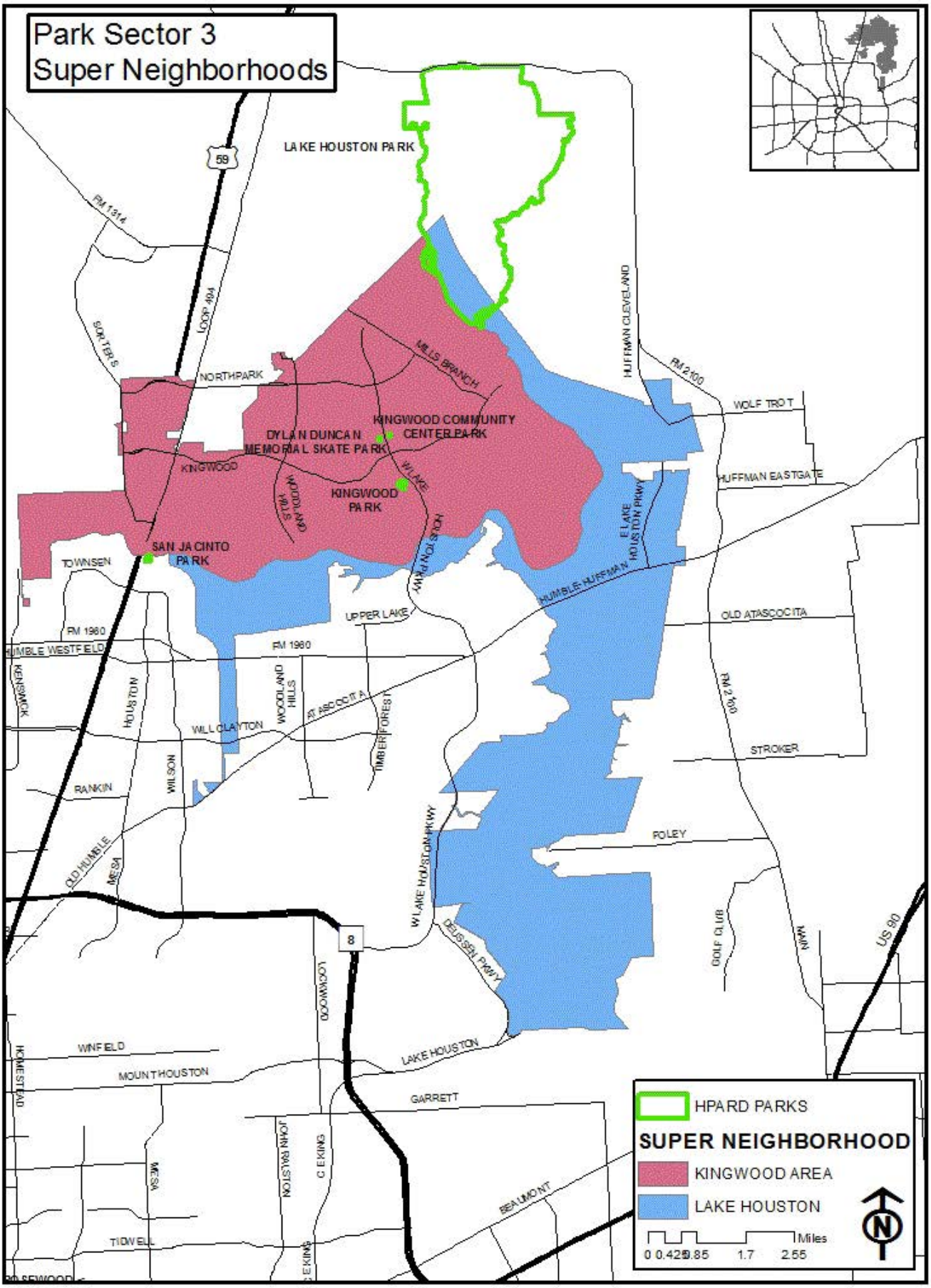


FIGURE 3: PARK SECTOR 3 SUPER NEIGHBORHOODS

Park Sector 3 Floodplain Areas

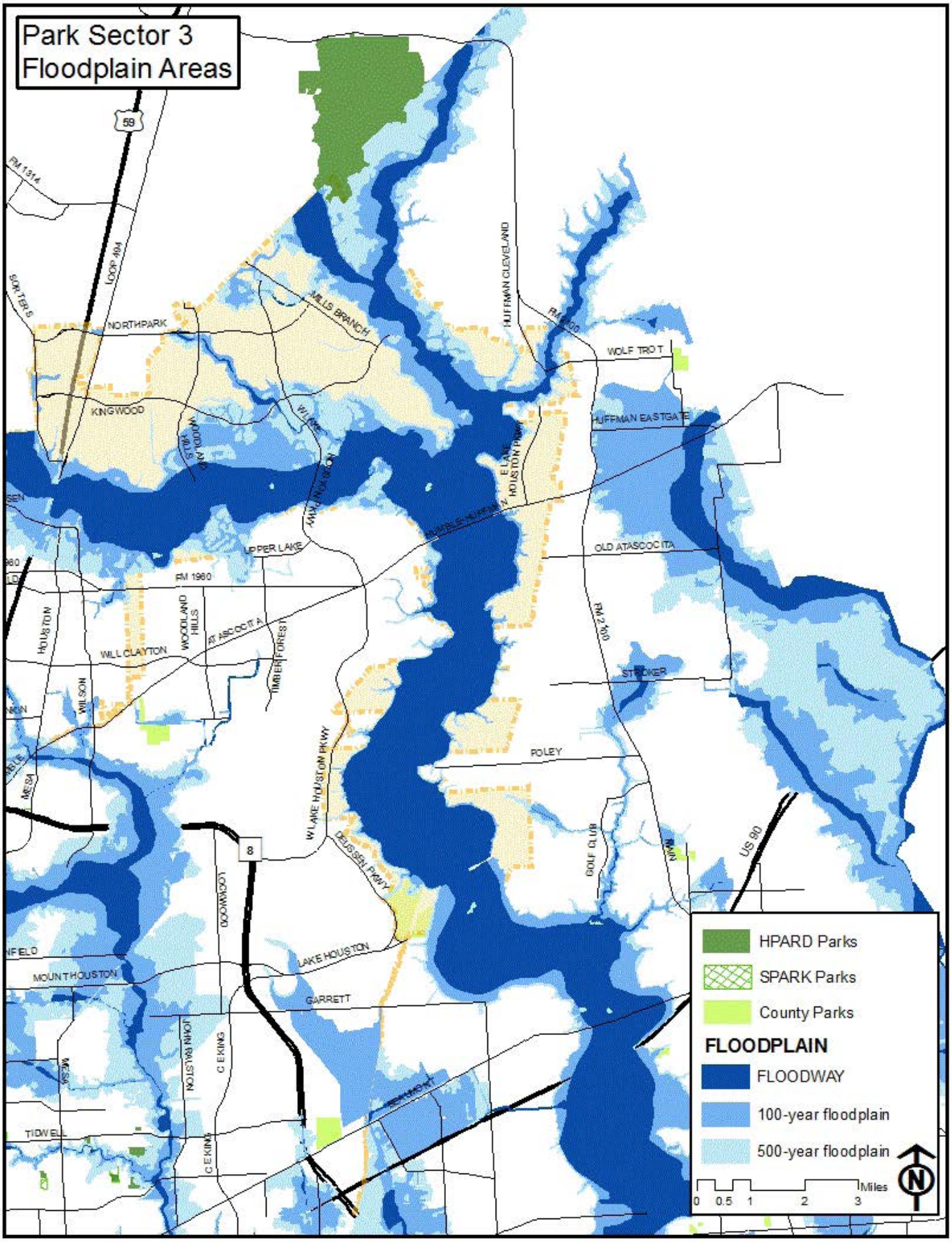


FIGURE 4: PARK SECTOR 3 FLOODPLAIN AREAS

PARK SECTOR 4

PARK SECTOR 4 SUMMARY

PARK SECTOR 4 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and data provided by the Trust for Public Land ParkScore™ Project), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Revitalize existing parks
2. Develop Neighborhood connections to parks and trails
3. Develop new park facilities
4. Preserve environmentally sensitive areas
5. Develop partnerships with the school system and other entities
6. Acquire new parkland

RECOMMENDATIONS

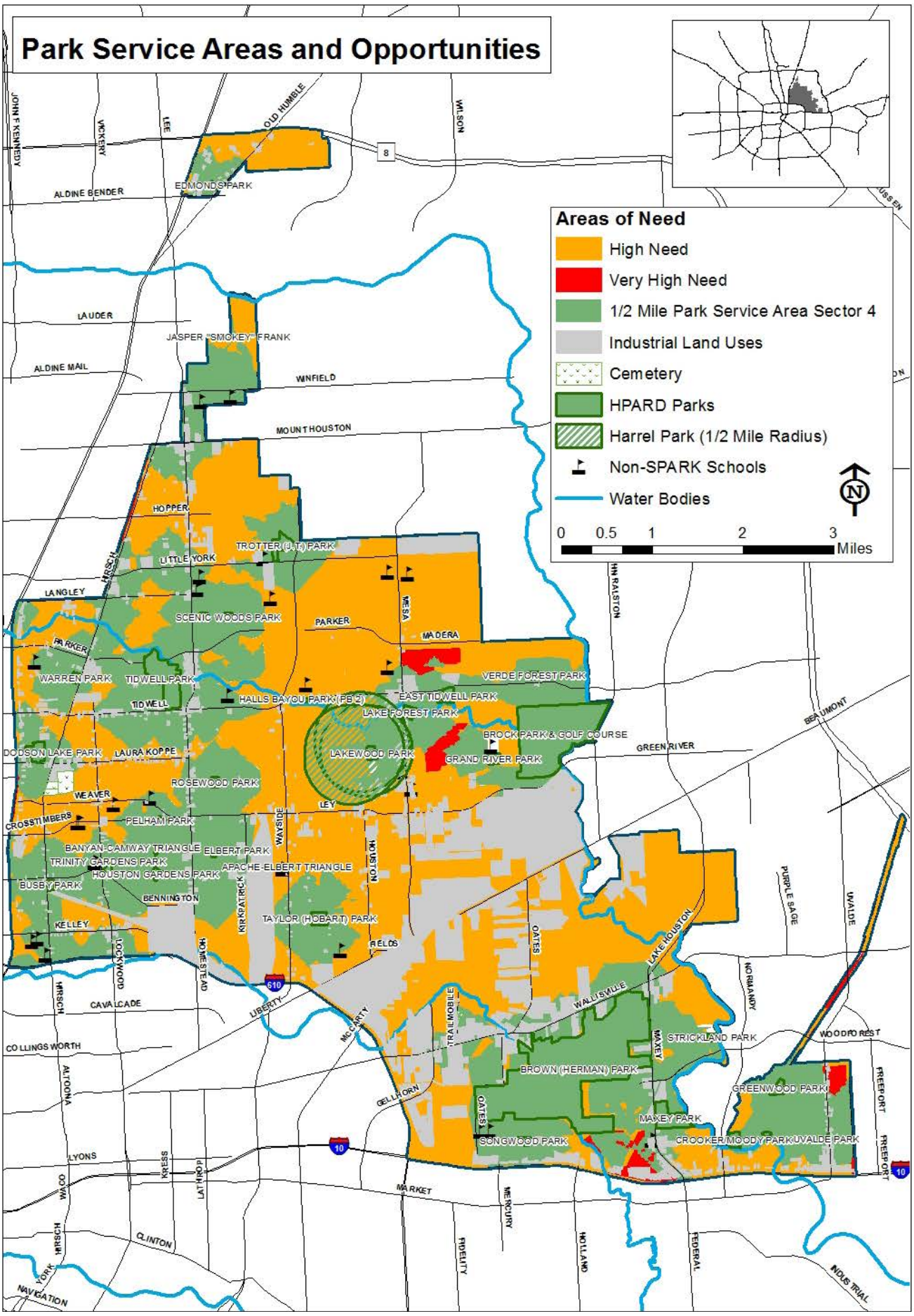
The parks in Park Sector 4 that have the highest need for redevelopment are listed from greatest need to least need: Trinity Gardens Park, Gleason Park, Greens Bayou Park, Jasper "Smokey" Frank Park, and Trotter (J.T.) Park.

At the current population, there is sufficient parkland; however, there are gaps in service areas in many areas of the Park Sector. There are large tracts of undeveloped land as well as land classified as agricultural in this Park Sector.

Almost 67% of the population in this Park Sector have incomes considered to be low to moderate. Pursuing Community Development Block Grants (CDBG) for park improvements should be a priority. Schools not participating in the SPARK School Park Program (Non-SPARK schools) should be explored as potential future partnerships for park space. In addition, CDBG funding could be considered in partnership with the SPARK program to add park space to the system and provide improvements at Non-Spark Schools. As there is little redevelopment occurring in this sector, this Park Sector should be targeted for CIP and bond funds for future development and land acquisition.

Also, while many amenity needs are met based on the 2010 population, existing amenities should be updated as many are aged or in poor condition. This Park Sector is deficient in volleyball courts and skate parks. There are several parks in this Park Sector that remain undeveloped that could be developed with needed amenities. There are approximately 18 miles of trails planned for the bayous in this Park Sector under the Bayou Greenways 2020 (BG2020 Initiative) program. In the 2014 survey, the top three priorities of residents in Park Sector 4 when asked what recreational needs existed in their Neighborhood were: upgraded community centers, hike, bike and walk trails, and gymnasiums. Other services and amenities that residents asked for in the write-in portion of the survey were: community gardens, senior facilities and programming, kayaking facilities, track and field programming, bike safety courses, swim lessons, fishing activities, nutrition and fitness programming, dance and theater programs, flag football leagues, and senior programming. Because of the health profile (obesity, 41.5%, and diabetes, 15.8%, levels higher than the city as a whole of 30.8% and 11.4% respectively) of this Park Sector, partnerships focused on recreational options and programming that promote healthy living should be explored.

Sources: 2010 US Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Online Survey, Trust for Public Land ParkScore™ Project and Houston-Galveston Area Council population projections for 2040 by Park Sector.


Park Service Areas and Opportunities
Areas of Need
High Need
Very High Need
1/2 Mile Park Service Area Sector 4
Industrial Land Uses
Cemetery
HPARD Parks
Harrel Park (1/2 Mile Radius)
Non-SPARK Schools
Water Bodies
0 0.5 1 2 3
Miles
EDMONDS PARK
JASPER "SMOKEY" FRANK
WINFIELD
MOUNT HOUSTON
HOPPER
TROTTER (J.T.) PARK
LITTLE YORK
LANGLEY
SCENIC WOODS PARK
PARKER
MADERA
WARREN PARK
TIDWELL PARK
HALLS BAYOU PARK (PB 2)
EAST TIDWELL PARK
VERDE FOREST PARK
LAKE FOREST PARK
BROCK PARK & GOLF COURSE
DODSON LAKE PARK
LAURA KOPPE
LAKEWOOD PARK
GRAND RIVER PARK
ROSEWOOD PARK
WEAVER
PELHAM PARK
BANYAN-CAMWAY TRIANGLE
ELBERT PARK
TRINITY GARDENS PARK
HOUSTON GARDENS PARK
APACHE-ELBERT TRIANGLE
BUSBY PARK
BENNINGTON
KELLEY
TAYLOR (HOBART) PARK
FIELDS
CAVALCADE
LIBERTY
COLLINGSWORTH
STRICKLAND PARK
BROWN (HERMAN) PARK
GREENWOOD PARK
MAXEY PARK
SONGWOOD PARK
CROOKER/MOODY PARK
UVALDE PARK
WOODCREST
CLINTON
MARKET
LYONS
GREEN RIVER
BEAUMONT
ALDINE BENDER
ALDINE MAIL
LAUDER
OLD HUMBLE
WILSON
VICKERY
LEE
JOHN F KENNEDY
HRSCH
MESA
HOUSTON
WAYSIDE
KIRKPATRICK
HOMESTEAD
LOCKWOOD
ALTOONA
WACO
KRESS
LATHROP
MCCARTY
TRAILMOBILE
OATES
WALLISVILLE
LAKE HOUSTON
NORMANDY
PURPLE SAGE
UVALDE
FREEPORT
MERCURY
FIDELITY
HOLLAND
FEDERAL
INDUSTRIAL
NAVIGATION
YORK
HN RALSTON

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Apache-Elbert Triangle	7000	Elbert	0.81	N/A
Banyan-Camway Triangle	7200	Camway/6900 Banyan	0.78	N/A
	Total HPARD Pocket Park Acreage		**1.59**	
Neighborhood Parks				
Busby Park	6700	Hirsch	5.83	N/A
Crooker/Moody Park	400	Westmont/West Canal	11.00	N/A
Darien Park	7100	Darien	1.00	N/A
East Tidwell Park	9300	E. Tidwell	14.34	N/A
Edmonds Park	6400	Hamblen	2.90	N/A
Elbert Park	7400	Banyan	1.00	N/A
Gleason Park	7200	Gleason	3.44	N/A
Grand River Park	8400	Grand River	9.96	N/A
Greens Bayou Park	700	Westmont Dr	3.30	N/A
Greenwood Park	602	Beresford	10.30	N/A
Halls Bayou Park (PB2)	8000	Tidwell @ Halls Bayou	3.49	N/A
Houston Gardens Park	6901	Apache	7.88	0.39
Lake Forest Park	9200	Mesa Dr	9.32	0.43
Lakewood Park	8811	Feland	9.20	0.14
Pelham Park	7500	Fountaine	3.00	N/A
Rosewood Park	8200	Darien	5.72	0.36
Scenic Woods Park	7449	Lakewood	5.16	0.34
Songwood Park	548	Westshire	6.75	0.33
Strickland Park	300	Highridge/Tammarack	6.10	N/A
Trinity Gardens Park	4903	Bennington	5.10	N/A
Uvalde Park	1020	Uvalde	1.03	N/A
Verde Forest Park	8800	Brock Park Blvd.	5.00	0.20
Warren Park	4301	Topping	6.00	N/A
	Total HPARD Neighborhood Park Acreage		**136.82**	
Community Parks				
Dodson Lake Park	9010	Dodson	24.45	0.50
Jasper "Smokey" Frank	13400	River Trail Drive	19.98	N/A
Maxey Park	601	Maxey Rd	41.16	N/A
Taylor (Hobart) Park	8100	Kenton	15.21	0.49
Tidwell Park	9720	Spaulding	85.23	0.30
Trotter (J.T.) Park	7809	East Little York	26.77	N/A
	Total HPARD Community Park Acreage		**212.80**	
Regional Parks				
Brock Park and Golf Course	8201	John Ralston	354.85	0.17
Brown (Herman) Park	400	Mercury Drive	717.35	4.41

Urban Trails/Shared Use Paths/Greenways		
Halls Bayou		2.40
	Total HPARD Park Acreage	**351.21**
	Total HPARD Trail Length	**10.50**

EXISTING COMMUNITY CENTERS AND POOLS

Community Centers and Pool Facilities	Address	Zip Code	Agency Responsible
Greenwood Park Pool	602 Beresford	77015	HPARD
Lakewood Community Center	8811 Feland	77028	HPARD
Taylor (Hobart) Community Center and Pool	8100 Kenton	77028	HPARD
Tidwell Community Center and Pool	9720 Spaulding	77016	HPARD

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger). The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Roughly 31% of the live/play areas in this Park Sector are not served by a park, significantly lower than that of the entire city (55%) . Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains 1,432 acres of parkland (Harris County, HPARD & other providers). Of the 26,888 acres in this Park Sector, 5% of this acreage is parkland.
- There are approximately 95,000 residents, 51% African-American and there is a high percentage of youth and seniors.
- Based on the standard of acreage of parkland per 1,000 residents, this Park Sector has sufficient parkland; however, as seen on the map there are gaps in parkland in some areas.
- H-GAC population projections estimate that this area will add roughly 20,000 residents by 2040.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	30	13	34	16	16	2	1	1	3	3	2	20	9	10
2015 Existing	30	13	34*	16	16	0	1	0	3	3	2	20	9	10
2015 Needed	-	-	-	-	-	2	-	1	-	-	-	-	-	-
2040 Needed	-	-	-	-	-	-	-	1	-	-	-	-	-	-

* This number includes miles of trails currently planned along Greens Bayou (9 miles), Halls Bayou (5 miles) and Hunting Bayou (4 miles) under the Bayou Greenways (BG2020 Initiative).

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.

2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.

3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.

4. Annual Operation and Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication “2014 City Park Facts.” Houston spent $29 per resident on parks and recreation per resident in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATIO AND MAINTENANCE
2015	$5,000,000	0 Acres $0	$30,000,000	$6,000,000
2040	$9,000,000	0 Acres $0	$64,000,000	$1,000,000
TOTAL 2040	$14,000,000	0 Acres $0	$94,000,000	$7,000,000

PARK SECTOR PROFILE 4

LOCATION AND POLITICAL BOUNDARIES

Park Sector 4 is located east of US 59, north of IH-610 and I-10, and southwest of Beltway 8
Park Sector Size: 26,888 acres or 42.01 square miles.
Population: 95,417 people, Density: 2,271 persons/sq. mi.
Political Boundaries within Park Sector 4:

- Council Districts: B and I
- Super neighborhoods contained in this Park Sector: Eastex-Jensen Area, East Little York/ Homestead, IAH/ Airport Area, Trinity/ Houston Gardens, Kashmere Gardens, Settegast, East Houston, El Dorado/Oates Prairie, Hunterwood, Northshore
- TIRZ: LeLand Woods
- Management Districts: Greater Northside

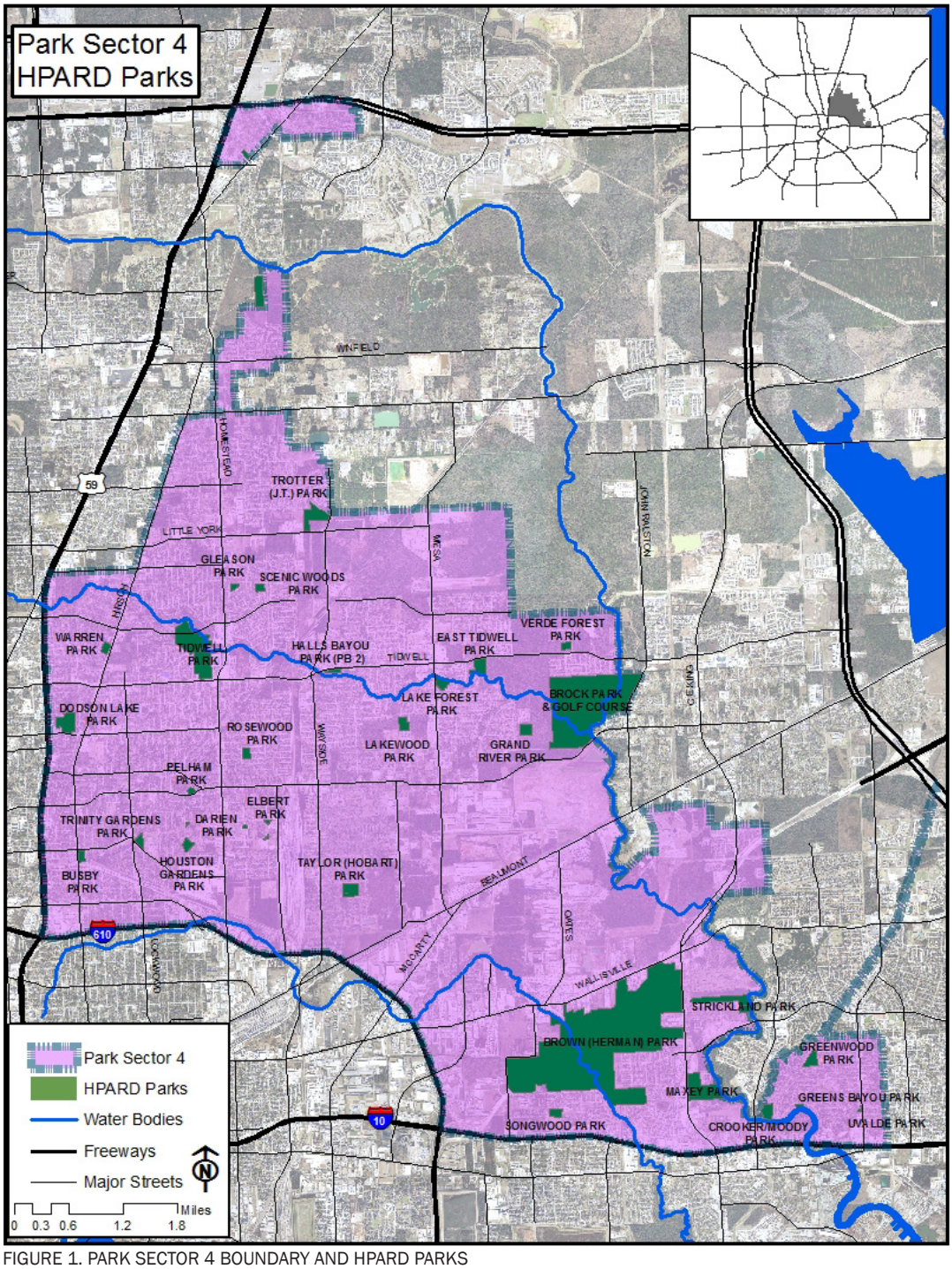


FIGURE 1. PARK SECTOR 4 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 4 Population	Park Sector 4 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**95,417**	-	2,119,831	-
Hispanic or Latino	39,968	41.9%	919,668	43.8%
Non-Hispanic White	5,551	5.8%	537,901	25.6%
Non-Hispanic Black	48,831	51.2%	485,956	23.1%
Non-Hispanic American-Indian	159	0.2%	126,098	6.1%
Non-Hispanic Asian	253	0.3%		
Non-Hispanic Hawaiian or Pacific Islander	8	0.0%		
Non-Hispanic Some Other Race	647	0.7%	26,828	1.3%

TABLE 1. PARK SECTOR 4 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains about 4.5% of the population of Houston; the majority (51%) of residents are Non-Hispanic Blacks, followed by Hispanic/Latino (42%), and Non-Hispanic Whites (6%). The most dense portions of the Park Sector are along I-10 on the eastern portion of the Park Sector and in the area north of Tidwell between Hempstead Highway and John Ralston Road. Density increases outside the city limits between the city limits/Park Sector and Beltway 8 and Highway 59.

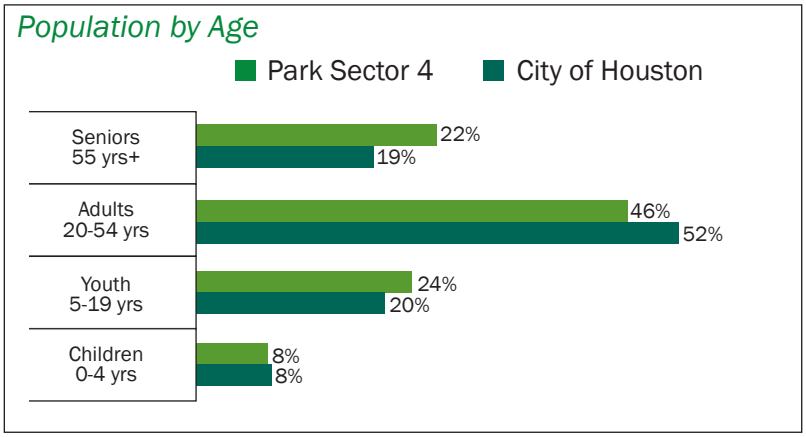


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 4 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that the percent of population under 19 (32%) is higher than the percentage of the rest of the city (28%). Further breakdown of the age groups, as shown in Figure 2., reveals that, the distribution of age groups in this Park Sector generally mirrors the same pattern as the entire City of Houston. There are slightly less (46%) adults 20-54 years old than the rest of the City of Houston (52%). These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 4 Population	PS 4 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	8,220	8%	8%	166,066	8%	8%
Youth	5-9 yrs	7,980	8%	24%	148,843	7%	21%
	10-14 yrs	7,438	8%		135,622	7%	
	15-19 yrs	7,681	8%		140,673	7%	
Adults	20-34 yrs	20,311	21%	46%	539,348	26%	52%
	35-44 yrs	11,750	12%		286,117	14%	
	45-54 yrs	12,315	13%		265,060	13%	
Senior	55-64 yrs	10,135	10%	22%	204,852	10%	19%
	65 yrs +	11,482	12%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 4 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 30,348 housing units in this Park Sector. The percent of vacant housing in Park Sector 4 (12.3%) is the same as the vacancy rates for the entire city (12.3%). Home ownership for this Park Sector (51.5%) is much higher than that of the City of Houston's home ownership rate (39.7%); similarly, the share of renters (35.7%) is lower than that of the city's as a whole (47.1%).

Income

The median household income for this Park Sector ($28,410) is significantly lower than that of the City of Houston ($48,322). In this Park Sector seventy-three percent (73%) or 22,811 households in this area have an income below the Houston median household income. According to the City of Houston Housing and Community Development data (low or moderate income derived from 2000 Census as per federal regulations) 66.9% of the population are low to moderate income; therefore, this area could qualify for Community Development Block Grant (CDBG) funds.

Educational Attainment

Within Park Sector 4 the percent (7%) of individuals 25+ years of age with a Bachelor's degree or above is significantly lower than the relative percent for the entire City of Houston (28%). Conversely, the percentage of those within this Park Sector without a high school degree (37%) is higher than that of the City of Houston (25%).

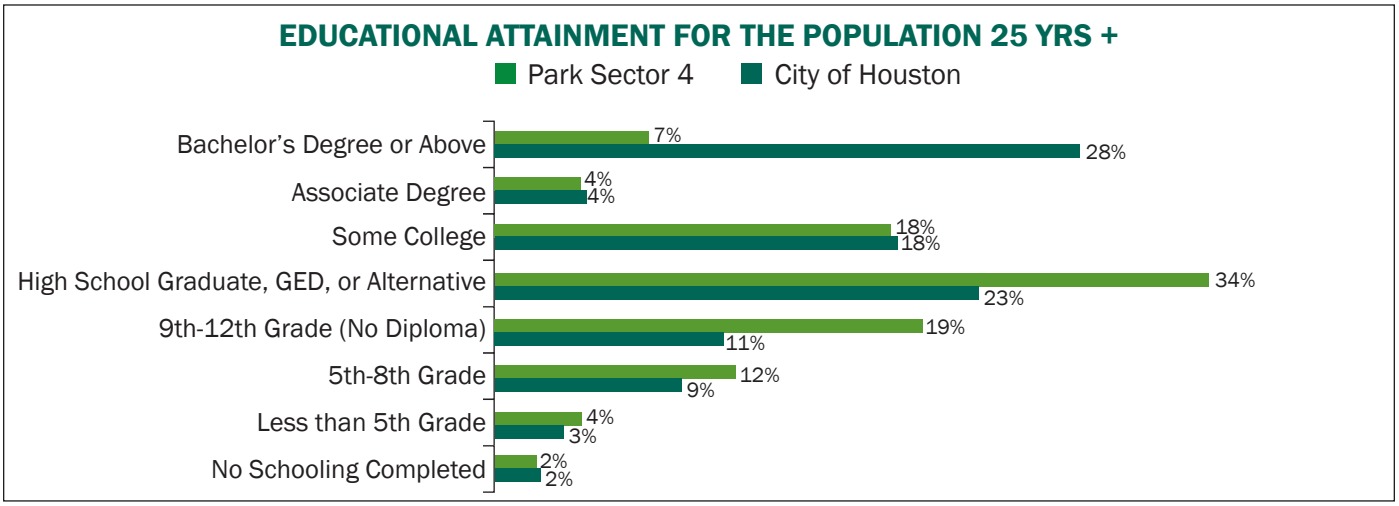


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 41.5% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that 15.8% of the adult population received a diagnosis of diabetes by a professional, which is above the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that almost 40% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is higher than that of the entire city (32%).

The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%. Finally, the survey shows that over a fifth of the population in this Park Sector (20.7%) does not engage in moderate physical activity at all, which is slightly lower than the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

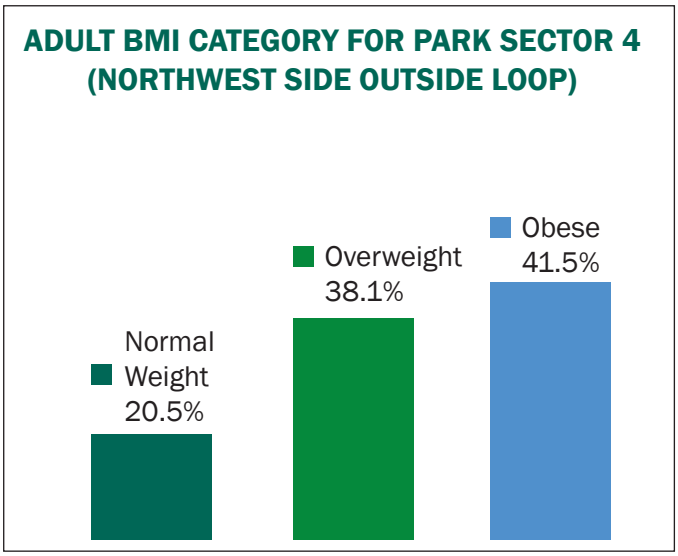


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	20.70
1	1.20
2	19.10
3	5.80
4	13.90
5	19.50
6	0.70
7	19.10

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

Almost 68% of the parcels in Park Sector 4 are residential, making up almost one-third of the acreage (28%) in the area. This is a low percentage of residential parcels compared to other Park Sectors. Over a quarter of the acreage (25.6%) is undeveloped land; as seen on Figure 4, there are large tracts as well as many smaller parcels scattered amongst the single-family areas. Industrial land use takes up almost 14% of the acreage in this area. The industrial parcels are concentrated mostly along Liberty/Beaumont Highway and Wallisville Road. Thirteen percent (13.3%) of the acreage is public and institutional; the largest parcel is the former North Forest Independent School District property in the northeast area of this Park Sector.

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	27,330	66.9%	6,714	27.9%
Multi-Family	294	0.7%	431	1.8%
Commercial	865	2.1%	780	3.2%
Office	50	0.1%	52	0.2%
Industrial	667	1.6%	3,352	13.9%
Public & Institutional	1,738	4.3%	3,192	13.3%
Transportation	720	1.8%	762	3.2%
Parks & Open Space	528	1.3%	1,166	4.9%
Undeveloped	8,534	20.9%	6,149	25.6%
Agriculture Production	75	0.2%	1,429	5.9%
TOTAL	40,820	100%	23,928	100%

TABLE 4. LAND USE BY DESCRIPTION (2013 HCAD)

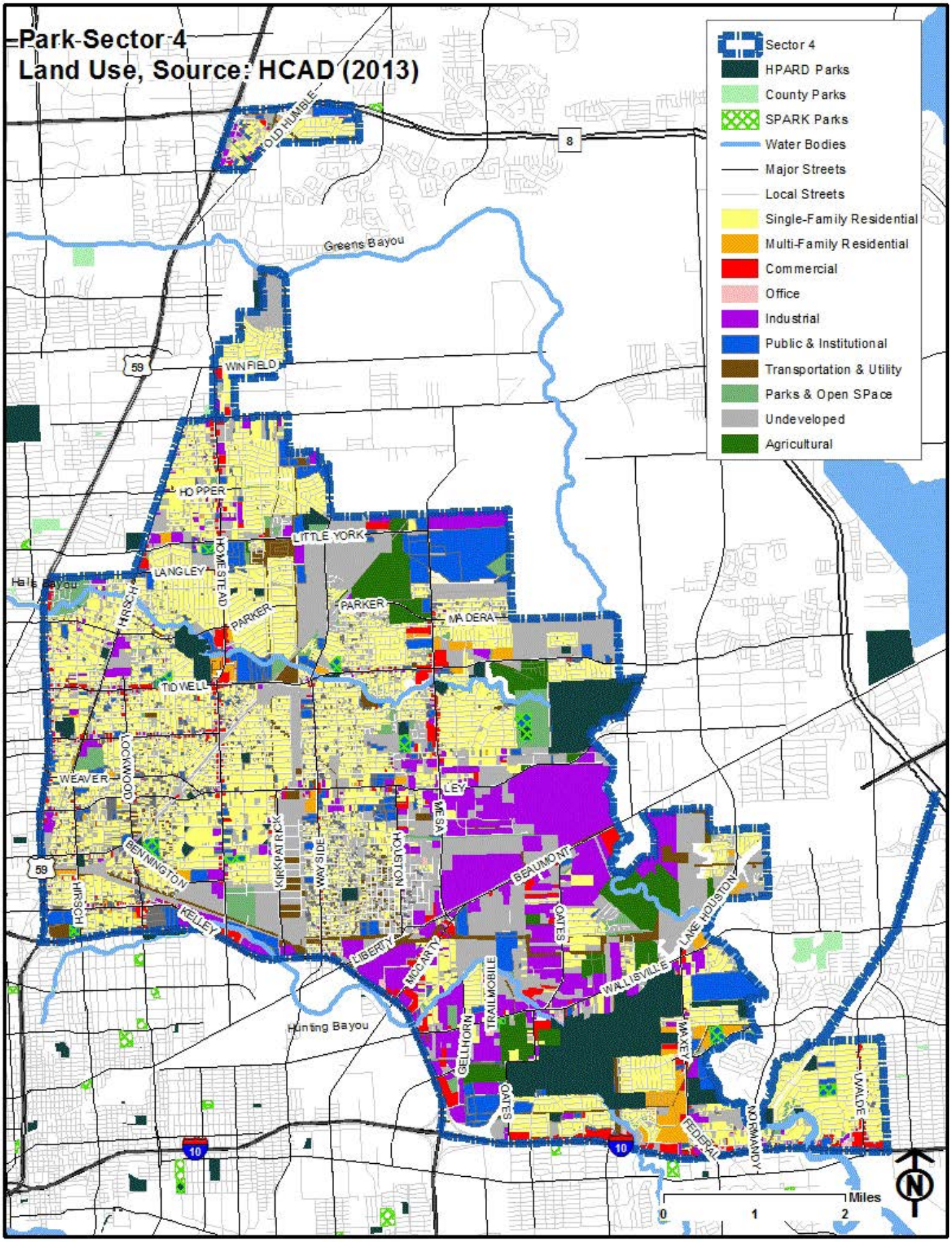


FIGURE 5. PARK SECTOR 4 LAND USE MAP (2011 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

HPARD PARKS AND TRAILS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Apache-Elbert Triangle	7000	Elbert	0.81	N/A
Banyan-Camway Triangle	7200	Camway/6900 Banyan	0.78	N/A
Total HPARD Pocket Park Acreage			**1.59**	
Neighborhood Parks				
Busby Park	6700	Hirsch	5.83	N/A
Crooker/Moody Park	400	Westmont/West Canal	11.00	N/A
Darien Park	7100	Darien	1.00	N/A
East Tidwell Park	9300	E. Tidwell	14.34	N/A
Edmonds Park	6400	Hamblen	2.90	N/A
Elbert Park	7400	Banyan	1.00	N/A
Gleason Park	7200	Gleason	3.44	N/A
Grand River Park	8400	Grand River	9.96	N/A
Greens Bayou Park	700	Westmont Dr	3.30	N/A
Greenwood Park	602	Beresford	10.30	N/A
Halls Bayou Park (PB2)	8000	Tidwell @ Halls Bayou	3.49	N/A
Houston Gardens Park	6901	Apache	7.88	0.39
Lake Forest Park	9200	Mesa Dr	9.32	0.43
Lakewood Park	8811	Feland	9.20	0.14
Pelham Park	7500	Fountaine	3.00	N/A
Rosewood Park	8200	Darien	5.72	0.36
Scenic Woods Park	7449	Lakewood	5.16	0.34
Songwood Park	548	Westshire	6.75	0.33
Strickland Park	300	Highridge/Tammarack	6.10	N/A
Trinity Gardens Park	4903	Bennington	5.10	N/A
Uvalde Park	1020	Uvalde	1.03	N/A
Verde Forest Park	8800	Brock Park Blvd.	5.00	0.20
Warren Park	4301	Topping	6.00	N/A
Total HPARD Neighborhood Park Acreage			**136.82**	
Community Parks				
Dodson Lake Park	9010	Dodson	24.45	0.50
Jasper "Smokey" Frank	13400	River Trail Drive	19.98	N/A
Maxey Park	601	Maxey Rd	41.16	N/A
Taylor (Hobart) Park	8100	Kenton	15.21	0.49
Tidwell Park	9720	Spaulding	85.23	0.30
Trotter (J.T.) Park	7809	East Little York	26.77	N/A
Total HPARD Community Park Acreage			**216.80**	
Regional Parks				
Brock Park & Golf Course	8201	John Ralston	354.85	0.17
Brown (Herman) Park	400	Mercury Drive	717.35	4.41

Urban Trails/Shared Use Paths/Greenways	
Halls Bayou	2.4
Total HPARD Park Acreage	**1,423.4**
Total HPARD Trail Length	**10.5**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 4

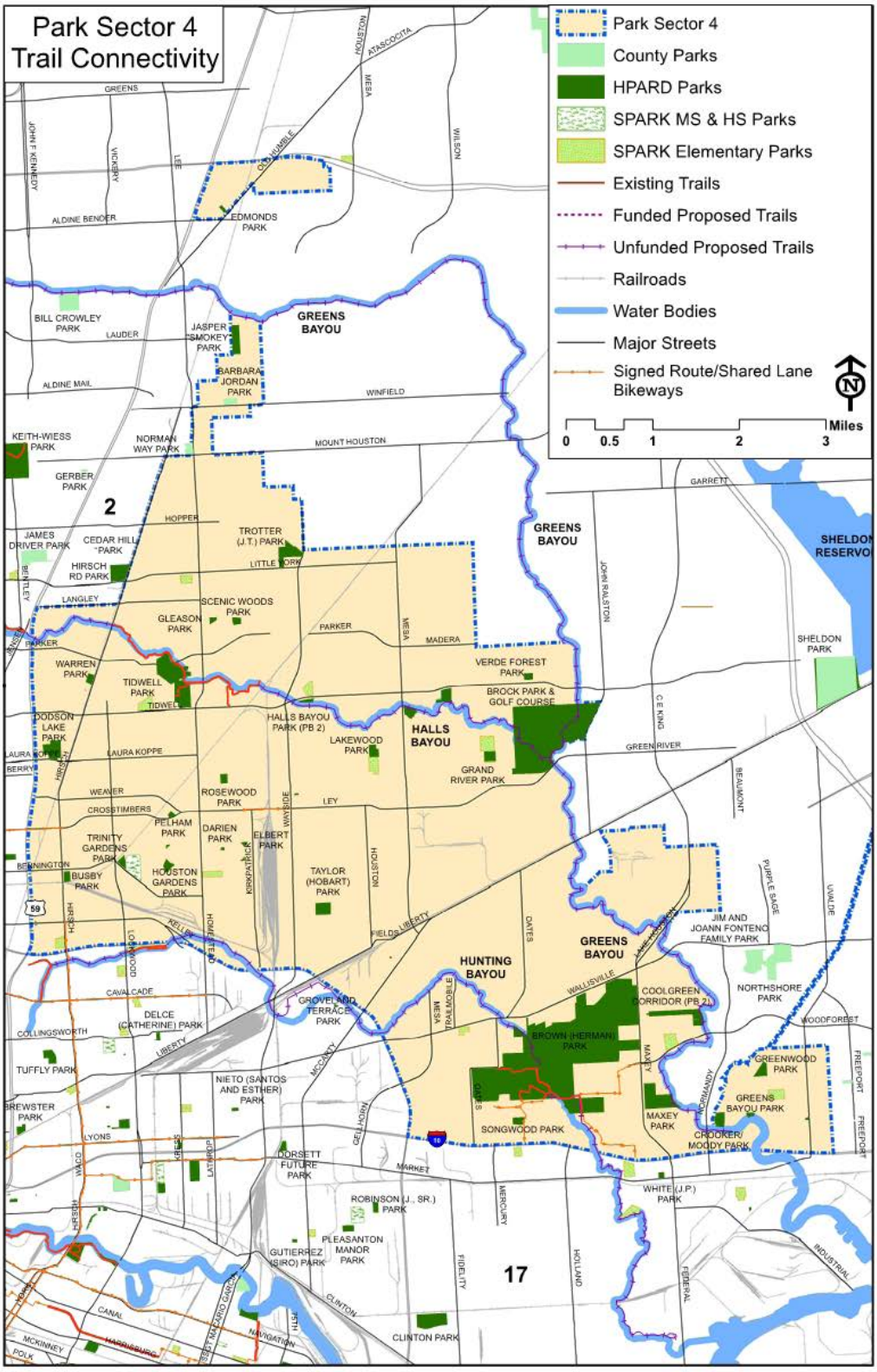


FIGURE 6. PARK SECTOR 4 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

The Houston Parks and Recreation Department (HPARD) operates 33 parks in the area accounting for 1,414.4 acres of parkland. Harris County operates 1 park in this area, totaling 6.2 acres of parkland. Habitat for Humanity dedicated 2.33 acres of private parkland (to meet the requirements of the Parks and Open Space Ordinance) to serve the affordable housing subdivision, it is currently under construction. There are approximately 8.1 miles of trails inside HPARD parks, 0.5 miles inside of Harris County parks and 1.17 miles of trails inside SPARK parks in this Park Sector. Greens, Halls, and Hunting Bayous, flow across this Park Sector. Along Halls Bayou there is a 3.4 mile trail between Jensen Drive and Keith-Wiess Park maintained by Harris County. In addition, there is a 2.4 mile trail from Hirsch Road to Forest Brook High School maintained by HPARD. Along Hunting Bayou and inside Herman Brown Park there is a 4.4 trail. This brings the total of existing trails in this Park Sector to almost 16 miles. There are approximately 18 miles of trails planned for this area through the Bayou Greenways Initiative (BG 2020): 5.5 miles along Halls Bayou, 4 miles along Hunting Bayou and 9 miles along Greens Bayou.

EXISTING PARK FACILITIES

County Parks and Trails

County Park				
Facility Name	**Address**	**Street**	**Total Acres**	**Trail Length**
Barbara Jordan Park	6400	Winfield Road	6.20	0.50
Halls Bayou Trail				3.4
		Total HC Park Acreage	**6.20**	
		Total HC Trail Length		**3.9**

TABLE 6. TRAILS INTERNAL TO COUNTY PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 4

SPARK Parks

There are 10 Elementary Schools and 1 High School participating in the SPARK Program providing access to park space and a variety of amenities to the public.

SPARK Parks				
Facility Name	**Address**	**Street**	**Total Acres**	**Amenities**
Cimarron Elementary School	816	Emporia	13.23	Playground, 0.2 mi Trail
Fonwood Elementary School	10719	Seneca St	7.77	2 Playgrounds, 0.19 mi Trail, Basketball Court
Hilliard Elementary School	8115	Houston Rd	12.49	Multi-Purpose Field
Houston Gardens Elementary School	6820	Homestead Rd	9.75	3 Playgrounds, Pavilion, 0.23 mi Trail
JW Oates Elementary School	10044	Wallisville Rd	12.49	Playground
Kashmere High School	6900	Wileyvale Rd	25.85	Baseball Field (unlit)
Lakewood Elementary School	8800	Grandriver Dr	26.69	Playground, 0.18 mi Trail
McDade Elementary School	5815	Hirsch Rd	7.56	Playground, 0.09 mi Trail
Robinson Elementary School	12425	Wood Forest Blvd	15.1	Playground
Shadydale Elementary School	5905	Tidewell Rd	12.97	Playground, 0.14 mi Trail
Tidwell Elementary School	8000	Tidwell Rd	9.14	Playground, 0.14 mi Trail
Total Acres*			**153.04**	

TABLE 7. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 4 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

Open and Green Space

To determine level of service, the 2007 Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using the data provided by The Trust for Public Land ParkScore™ Project. Figure 6 below shows the level of service (LOS) based on the 2007 HPARD recommended standards of a number of acres per 1,000 people using the 2010 Census population. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 0.005 acres/1,000 people for a Pocket Park, Park Sector 4 meets the standard. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 1 acres/1,000 people for a Neighborhood Park, Park Sector 4 also meets this standard. For the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 1.5 acres/1,000 people for a Community Park, Park Sector 4 meets this standard. The analysis for level of service and needs is shown below. Currently, no parkland acquisition is needed in this Park Sector. Although the acreage per thousand standard is met for these park categories, the low density of this Park Sector makes it especially challenging to have a park within ½ a mile of all residential areas.

Park Type	HPARD Park Number	HC Park Number	Other Providers	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
									Population		95,417	
Pocket Park (<1 acre)	2	0	0	1.59	0	0	1.6	0.005 ac/ 1,000 people	0.02	0.02	-1.11	-1.11
Neighborhood Park (1-15 acres)	23	1	1	136.82	6.20	2.33	145.4	1 ac/1,000 people	1.43	1.52	-41.40	-49.93
Community Park (16-150 acres)	6	0	0	212.80	0	0	212.8	1.5 ac/1,000 people	2.23	2.23	-69.67	-69.67
Regional Park (151+ acres)	2	1	1	1,072.2	0	0	1,072.2	8.0 ac/1,000 people				
TOTAL	31	0	0	1,423.4	6.20	2.33	1,420.6				-112.19	-49.93

TABLE 8. HPARD LOS AND PARKLAND NEED ANALYSIS.
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Another way to measure the level of service provided by parks is by looking at a "walkable" distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (TPL) ParkScore™ Project mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project. The areas in green on the map in Figure 7 represent the area within ½ mile of existing parks not blocked by freeways or major roads. Roughly 31% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, significantly lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector. The single-family and multi-family areas that are not served by a park are mainly concentrated in the northern portion of the Park Sector. The hatched areas are not accounted in the percentage for the areas served at this time, so the park service area percentage is underestimated.

AMENITIES AND SERVICES

The next map shows some of the community services available in this area: community centers, health centers, transit centers, schools, libraries, and YMCAs. There are three community centers located in Park Sector 4: Lakewood, Taylor (Hobart) and Tidwell Community Centers. The Northeast YMCA is located in this Park Sector. There are very few community services located in this Park Sector, although there are some organizations (Parkway Community Center, Northside Health Center, Denver Harbor Senior Center) that are located adjacent to the Park Sector area that could potentially be utilized by residents. The libraries in this Park Sector provide computer access, community meeting space, and educational programs.

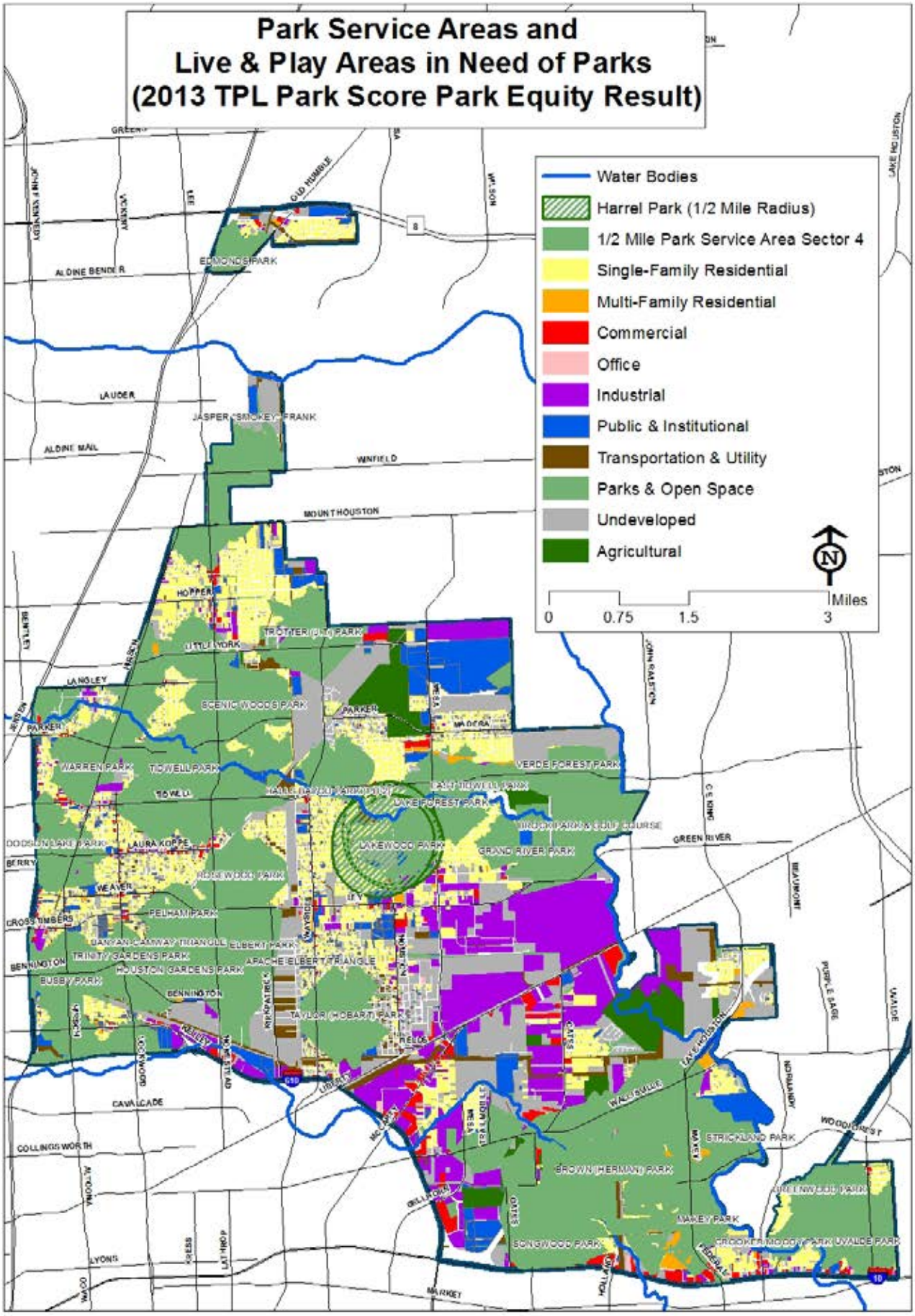


FIGURE 7. PARK SECTOR 4 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

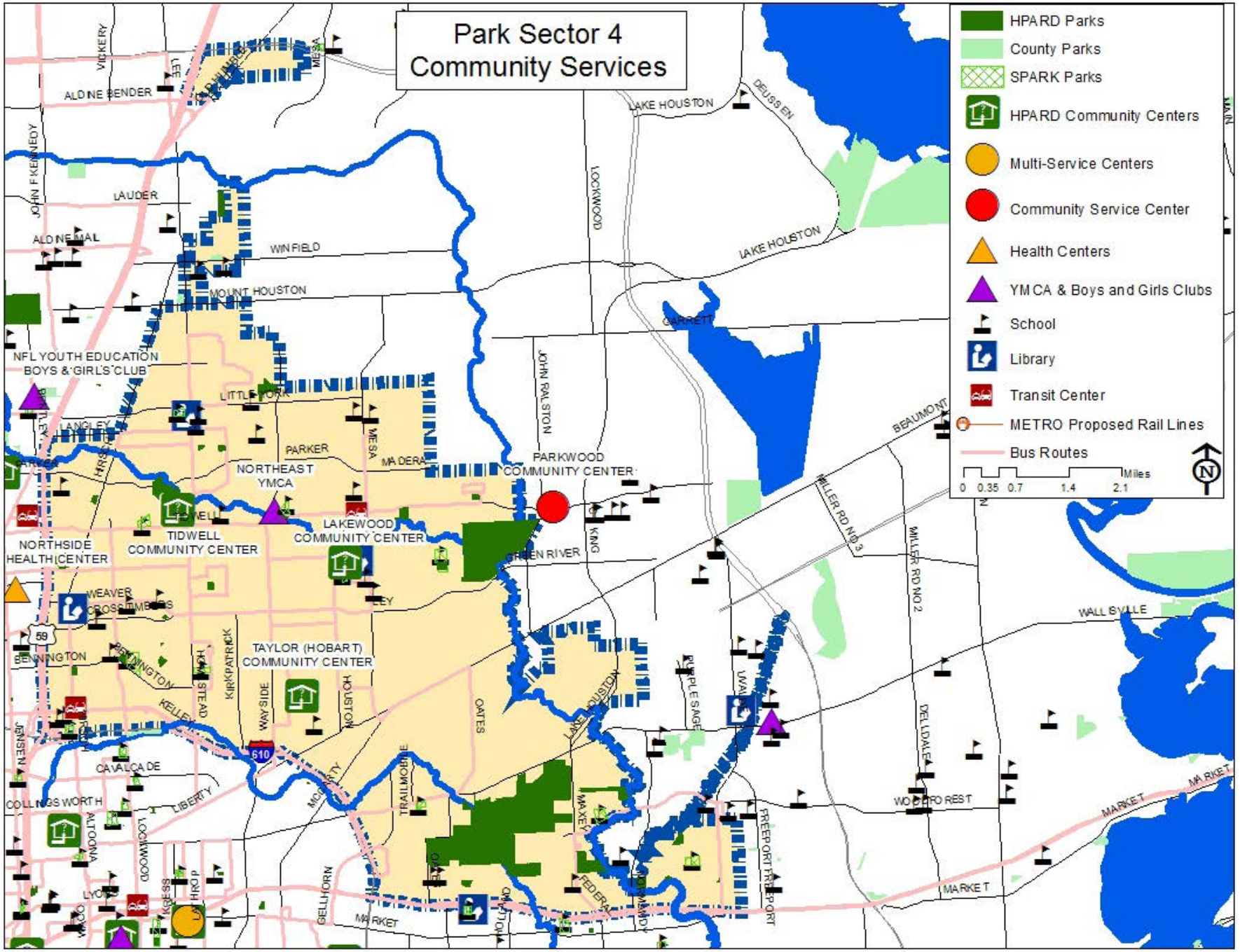


FIGURE 8. PARK SECTOR 4 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities-Level of Service

The 2007 HPARD standards by amenity have been applied to the amenities in Park Sector 4. The first column after the recommended HPARD standards indicates the level of service (LOS) accounting for HPARD facilities only, the total inventory standard accounts for facilities from all providers. Then, the standard for each amenity is compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these recommended HPARD standards, Harris County and other providers are meeting the needs of the residents for playgrounds, picnic shelters, outdoor basketball courts, tennis courts, skate parks, community centers, swimming pools, outdoor spraygrounds, ball fields, and soccer fields. This Park Sector is deficient in trails (2 miles), volleyball courts (1), and dog parks.

	HPARD	**Harris County**	**Other Providers**	**Total**	**Recommended HPARD Standard**		**Current HPARD Level of Service**		**Current Total Inventory Level of Service**		**HPARD NEEDS** Over/ Under Service	**Total Inventory NEEDS** Over/ Under Standard
								Population	**95,417**			
Playgrounds	16	2	12	30	1	4,000	1	5,964	1	3,181	8	-6
Picnic Shelters	11	1	1	13	1	10,000	1	8,674	1	7,340	-1	-3
Trails	13.2	2.90	1.17	17.22	0.2	1,000	0.14	1,000	0.18	1,000	6	2
Outdoor Basketball Courts	15	0	1	16	1	12,000	1	6,361	1	5,964	-7	-8
Tennis	14	2	0	16	1	10,000	1	6,816	1	5,964	-4	-6
Volleyball	0	0	0	0	1	50,000	0	95,417	0	95,417	2	2
Dog Parks	1	0	0	1	1	100,000	1	95,417	1	95,417	0	0
Skate Parks	0	0	0	0	1	100,000	0	95,417	0	95,417	1	1
Community Centers	3	0	0	3	1	30,000	1	31,806	1	31,806	0	0
Swimming Pools	3	0	0	3	1	50,000	1	31,806	1	31,806	-1	-1
Outdoor Spraygrounds	2	0	0	2	1	100,000	1	47,709	1	47,709	-1	-1
Baseball (Lit & Unlit)	19	0	1	20	1 field	30,000	1	5,022	1	4,771	-16	-17
Softball (Lit & Unlit)	9	0	0	9	1 field	30,000	1	10,602	1	10,602	-6	-6
Soccer (Lit & Unlit)	10	0	0	10	1 field	10,000	1	9,542	1	9,542	0	0

TABLE 9. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 4
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

There are currently no projects in progress in this Park Sector.

SUPPLEMENTAL MAPS: Park Sector 4 Council Districts

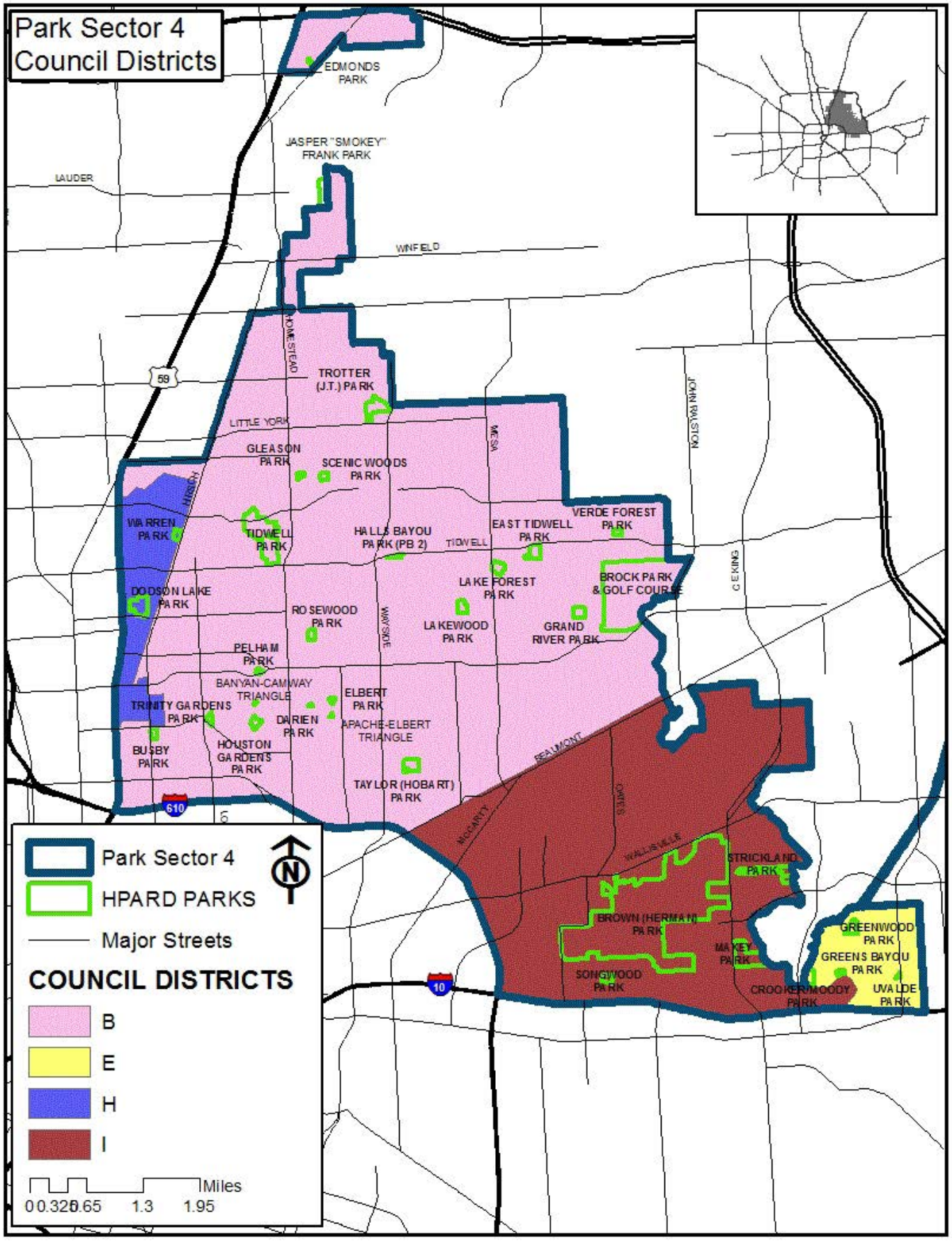


FIGURE 1: PARK SECTOR 4 COUNCIL DISTRICTS

Park Sector 4 Tax Increment Reinvestment Zones (TIRZs) and Management Districts

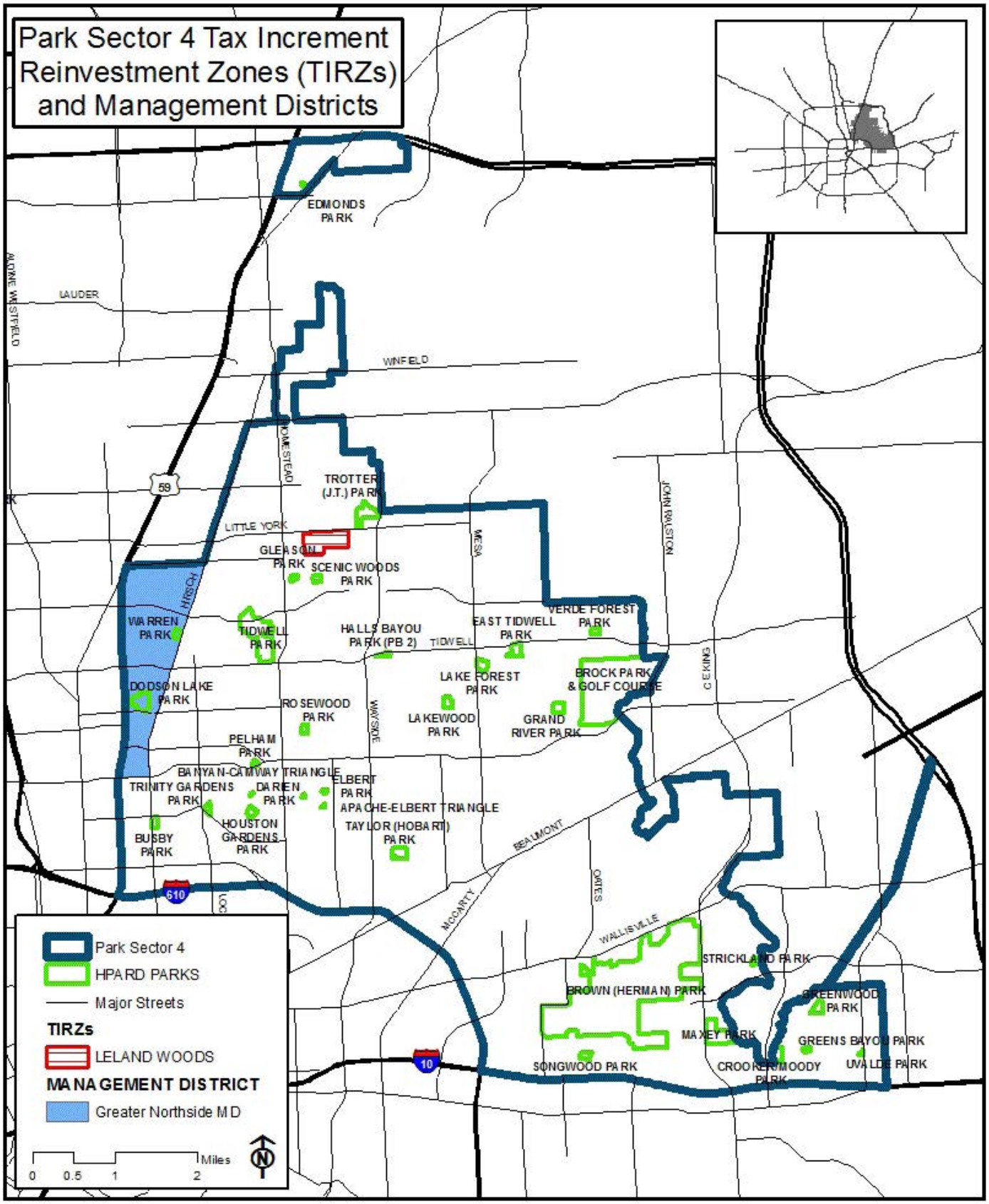


FIGURE 2: PARK SECTOR 4 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 4 Super neighborhoods

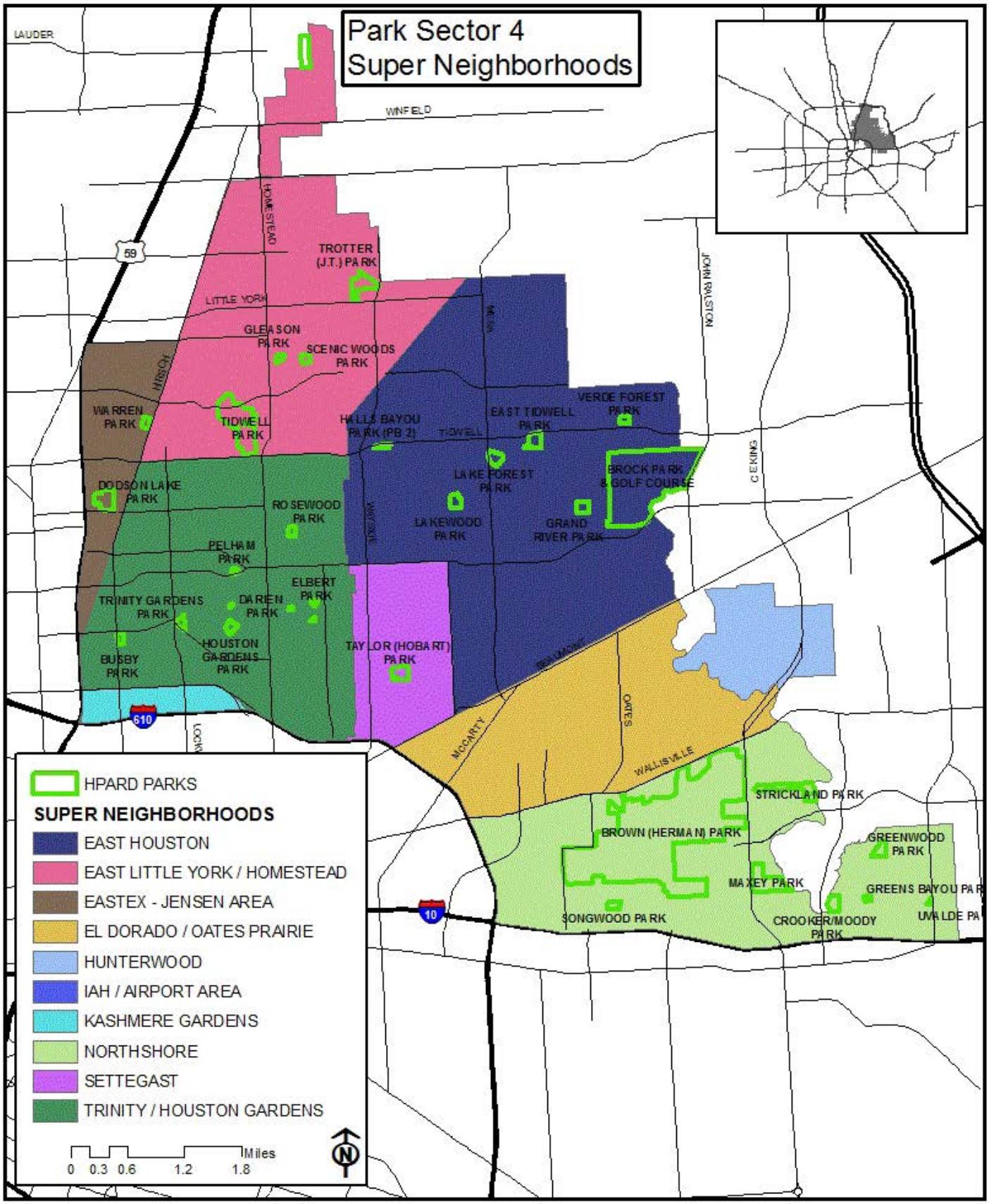


FIGURE 3: PARK SECTOR 4 SUPER NEIGHBORHOODS

Park Sector 4 Floodplain Areas

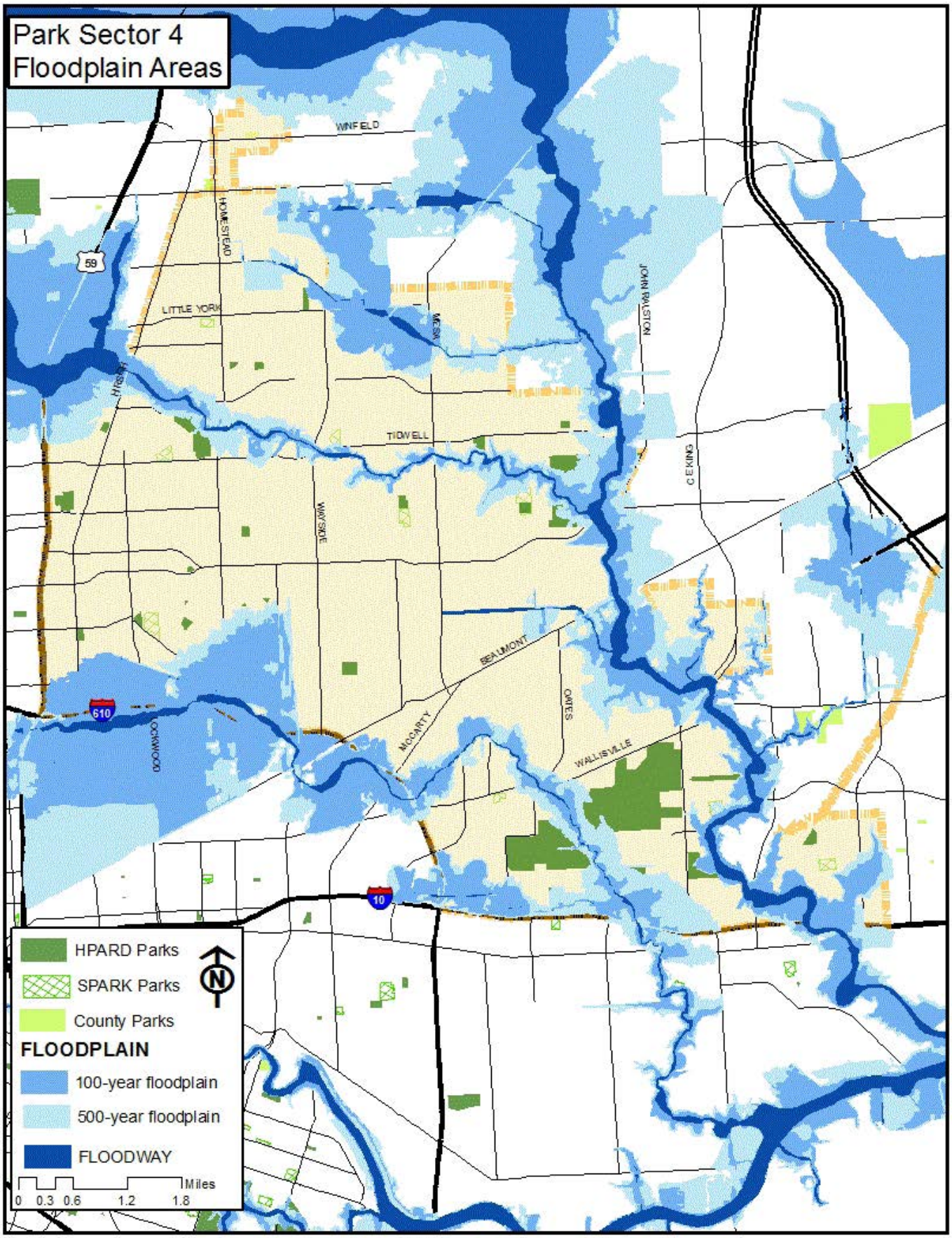


FIGURE 4: PARK SECTOR 4 FLOODPLAIN AREAS

PARK SECTOR 5

PARK SECTOR 5 SUMMARY

PARK SECTOR 5 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and data provided by the Trust for Public Land ParkScore™ Project), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Revitalize existing parks
2. Preserve environmentally sensitive areas
3. Develop Neighborhood connections to parks and trails
4. Develop partnerships with the school system and other entities
5. Acquire new parkland
6. Develop new park facilities

RECOMMENDATIONS

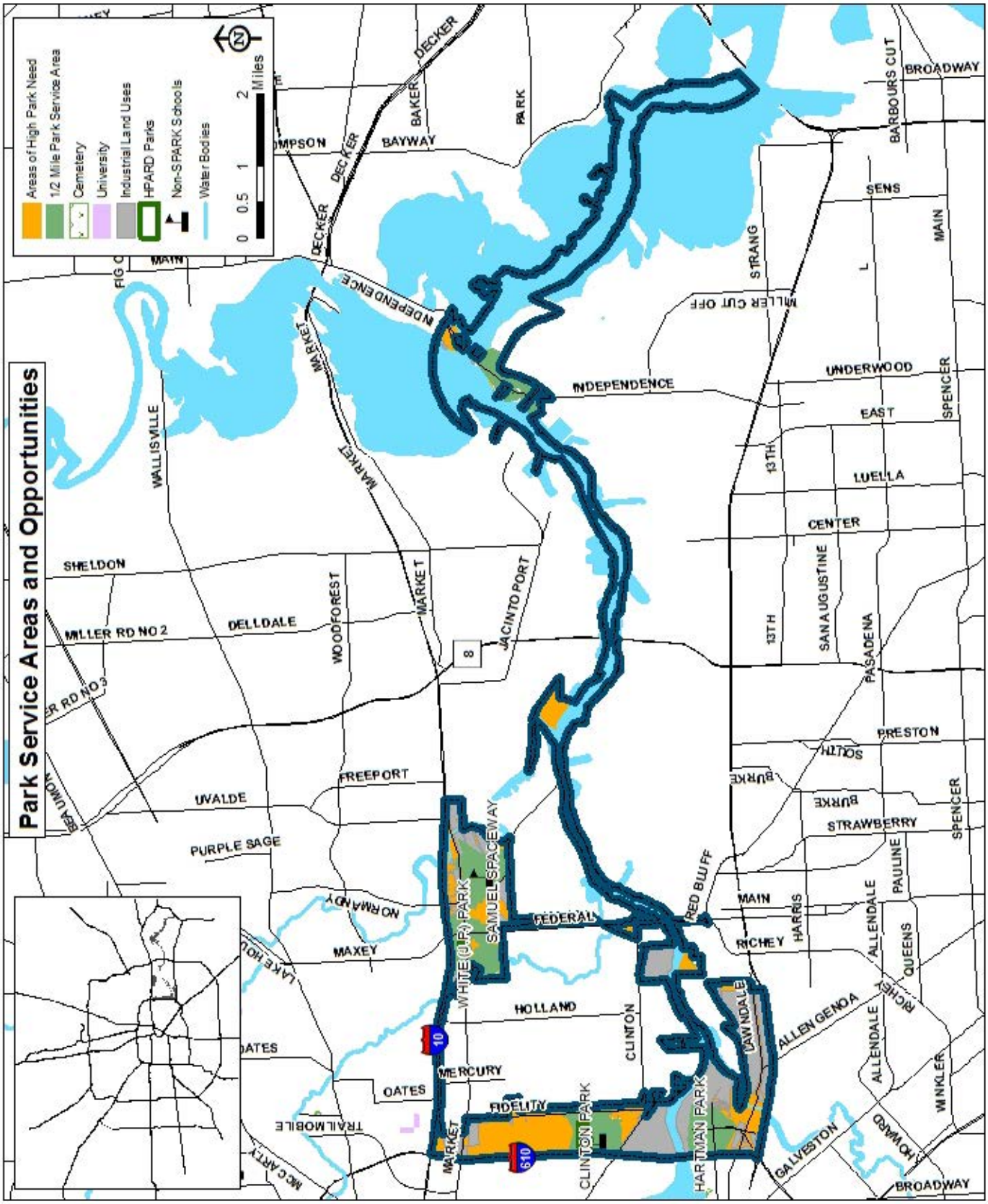
The parks in Park Sector 5 that have the highest need for redevelopment are listed from greatest need to least need: Hartman Park, Samuel Spaceway, and White (J.P.) Park.

At the current population, there is sufficient parkland; however, there are gaps in service areas in many areas of the Park Sector. As there is little redevelopment occurring in this sector, this Park Sector should be targeted for CIP and bond funds for future development and land acquisition. In addition, almost 68% of the population in this Park Sector has incomes considered to be low to moderate. Pursuing Community Development Block Grants (CDBG) for park improvements should be a priority.

A trail along Hunting Bayou is planned under the Bayou Greenways 2020 (BG2020 Initiative) program and will pass close to a residential area south of IH-10 and connect with the trails in Herman Brown Park north of this Park Sector. This Park Sector is deficient in dog parks, spraygrounds, and softball and soccer fields. There is potentially enough space at Clinton Park to allow for the development of fields within this park. However, because of the air quality conditions in the area, indoor recreational opportunities may be more adequate.

In the 2014 survey, the top five priorities of residents in Park Sector 5 when asked what recreational needs existed in their Neighborhood were: hike, bike, and walk trails, upgraded community center, playground areas, indoor basketball courts, and an amphitheater/performing arts space. Other services and amenities that residents asked for in the write-in portion of the survey were: performing and visual arts programming, fitness and nutrition programs, arts and crafts programs, senior programming, swim lessons, and teen and youth enrichment programs. The Health of Houston survey revealed that 13.3% of the population received a diagnosis of diabetes by a professional (City of Houston level was 11.4%). Based on this health profile partnerships focused on recreational options and programming that promote healthy living should be explored.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Online Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector


Park Service Areas and Opportunities
Areas of High Park Need
1/2 Mile Park Service Area
Cemetery
University
Industrial Land Uses
HPARD Parks
Non-SPARK Schools
Water Bodies
0 0.5 1 2 Miles
INDEPENDENCE
MARKET
DECKER
BAYWAY
BROADWAY
BARBOURS CUT
SENS
MAIN
STRANG
UNDERWOOD
EAST
SPENCER
LUELLA
CENTER
SHELDON
MILLER RD NO 2
DELLDALE
WOODFOREST
JACINTO PORT
SAN AUGUSTINE
PASADENA
PRESTON
SOUTH
BURKE
STRAWBERRY
FREEPORT
UVALDE
PURPLE SAGE
NORMANDY
MAXEY
WHITE (JR.) PARK
SAMUEL SPACEWAY
FEDERAL
RED BLUFF
RICHEY
HARRIS
ALLENDALE
PAULINE
QUEENS
HOLLAND
CLINTON
LAWNDALE
ALLEN GENOA
MERCURY
OATES
FIDELITY
CLINTON PARK
HARTMAN PARK
GALVESTON
WINKLER
TRAILMOBILE
WALLISVILLE
13TH
8
10
610

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Samuel Spaceway	12936	Samuel Ln	0.55	N/A
Total HPARD Pocket Park Acreage			**0.55**	
Neighborhood Parks				
Hartman Park	9311	E. Avenue P	6.20	0.62
White (J.P.) Park	12501	Market St	2.70	N/A
Total HPARD Neighborhood Park Acreage			**8.90**	
Community Parks				
Clinton Park	200	Mississippi	35.20	0.42
Total HPARD Community Park Acreage			**35.20**	
Total HPARD Park Acreage			**44.65**	
Total HPARD Trail Length				**1.04**

EXISTING COMMUNITY CENTERS AND POOLS

Community Centers and Pool Facilities	Address	Zip Code	Agency Responsible
Clinton Community Center and Pool	200 Mississippi	77029	HPARD
Hartman Community Center	9311 E. Avenue P	77012	HPARD

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange represent areas where there is not access to a park within a ½ mile. The degree of need (orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger). The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Roughly 22% residential and commercial areas do not have parkland accessible within a ½ mile, as compared to the 55% of the population of the City of Houston. Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains 52 acres of parkland (Harris County, HPARD & other providers). Of the 7,828 acres in this Park Sector, 1% of this acreage is parkland.
- There are approximately 8,500 residents, 74% are Latino and there are a high percentage of youths.
- Based on the standard of park acreage of parkland per 1,000 residents, there is no need for additional acres of parkland in Park Sector 5; however, as seen on the map there are some areas not served by parks.
- H-GAC population projections estimate that this area will add over 1,500 residents by 2040.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	8	3	5	3	4	1	1	1	2	1	1	2	1	1
2015 Existing	8	3	5*	3	4	1	0	1	2	1	0	2	0	0
2015 Needed	-	-	-	-	-	-	1	-	-	-	1	-	1	1
2040 Needed	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* This number includes 3.8 miles of trails currently planned along Hunting Bayou from I-10 to Federal Road under the Bayou Greenways (BG2020) Initiative.

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.

2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.

3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.

4. Annual Operation & Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation per resident in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$3,000,000	0 Acres- $0	$8,000,000	$500,000
2040	$600,000	0 Acres- $0	$18,000,000	$100,000
TOTAL 2040	$3,600,000	0 Acres- $0	$26,000,000	$600,000

PARK SECTOR PROFILE 5

LOCATION AND POLITICAL BOUNDARIES

Park Sector 5 is located east of IH 610, west SH 148, south of IH 10, and north SH 225
Park Sector Size: 7,828 acres or 12.2 square miles
Population: 8,489 people, Density: 696 persons/sq. mi.
Political Boundaries within Park Sector 5:

- Council Districts: I and E
- Super neighborhoods contained in this Park Sector: Clinton Park Tri Community, Harrisburg/Manchester, Meadowbrook/ Allendale, and Northshore
- TIRZ: N/A
- Management Districts: N/A

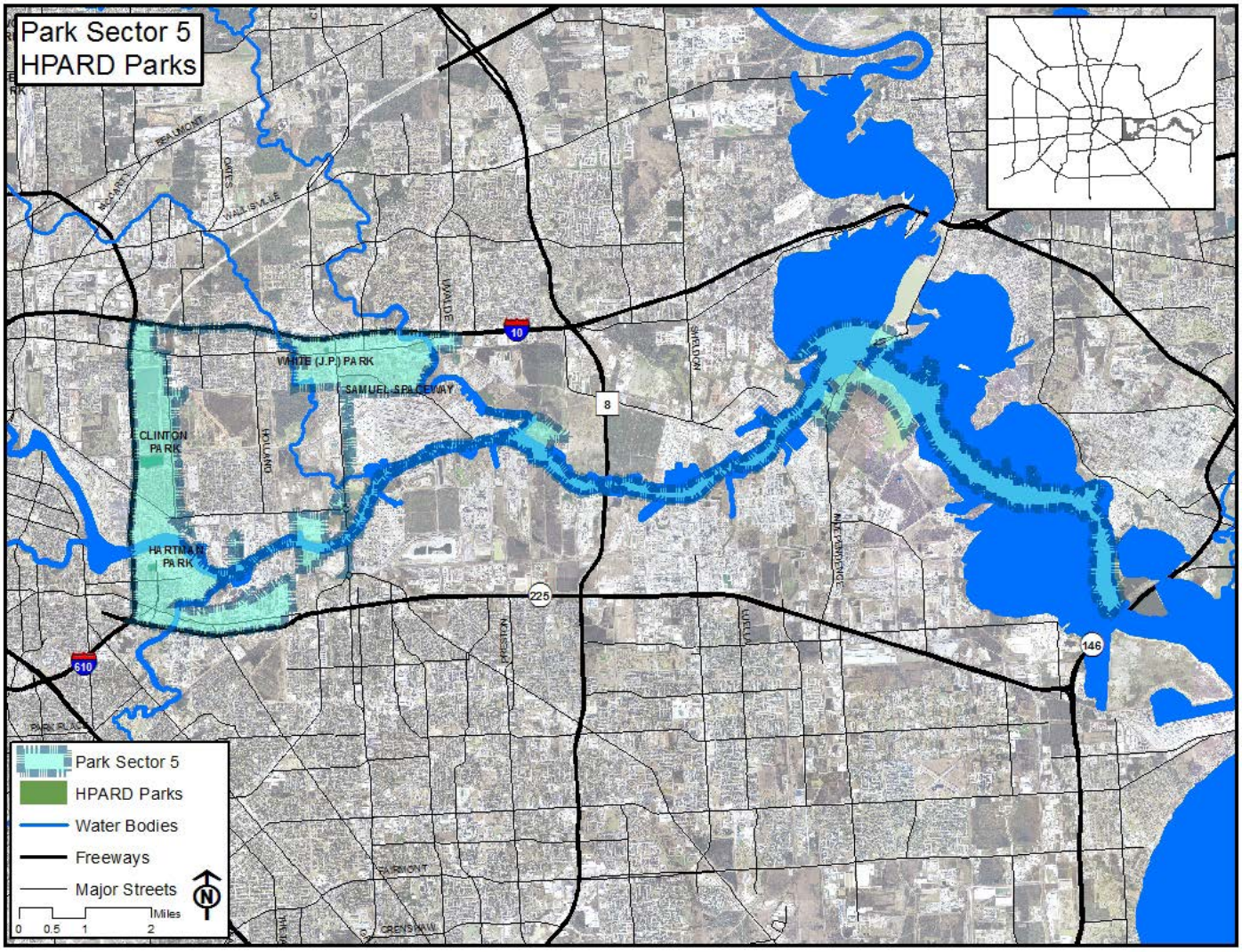


FIGURE 1. PARK SECTOR 5 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 5 Population	Park Sector 5 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**8,489**	-	2,119,831	-
Hispanic or Latino	6,290	74.1%	919,668	43.8%
Non-Hispanic White	512	6.0%	537,901	25.6%
Non-Hispanic Black	1,619	19.1%	485,956	23.1%
Non-Hispanic American-Indian	27	0.3%	126,098	6.1%
Non-Hispanic Asian	20	0.2%		
Non-Hispanic Hawaiian or Pacific Islander	-	0.0%		
Non-Hispanic Some Other Race	21	0.3%	26,828	1.3%

TABLE 1. PARK SECTOR 5 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains about 0.4% of the population of Houston; the majority (74%) of the residents are Hispanic/Latinos, followed by Non-Hispanic Blacks (19%), and Non-Hispanic Whites (6%). The most dense portion of the Park Sector is the northern area of the Park Sector closest to IH-10.

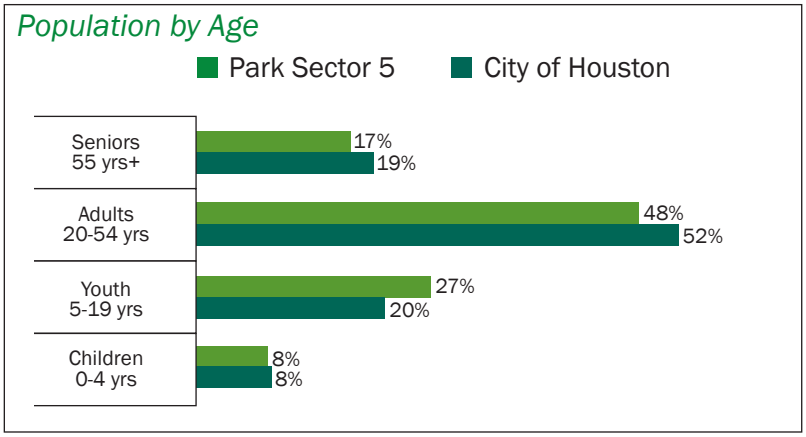


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 5 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that the percent of population under 19 (35%) is higher than the percentage of the rest of the city (28%). Further breakdown of the age groups, as shown in Figure 2., reveals that there are more (27%) youth 5-19 years old than the rest of the City of Houston (20%). The other age groups in this Park Sector roughly mimic the patterns seen throughout the rest of the City. These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 5 Population	PS 5 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	705	8%	8%	166,066	8%	8%
Youth	5-9 yrs	785	9%	27%	148,843	7%	21%
	10-14 yrs	751	9%		135,622	7%	
	15-19 yrs	748	9%		140,673	7%	
Adults	20-34 yrs	1,856	22%	48%	539,348	26%	52%
	35-44 yrs	1,096	13%		286,117	14%	
	45-54 yrs	1,039	12%		265,060	13%	
Senior	55-64 yrs	721	9%	17%	204,852	10%	19%
	65 yrs +	697	8%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 5 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are only a total of 2,695 housing units in this Park Sector. The percent of vacant housing in Park Sector 5 (11.4%) is roughly equivalent to the vacancy rates for the entire city (12.3%). Home ownership for this Park Sector (52.4%) is higher than the City of Houston's home ownership rate (39.7%), similarly, the share of renters (36.2%) is below that of the city's as a whole (47.1%).

Income

The median household income for this Park Sector ($29,875) is significantly lower than that of the City of Houston ($48,322). In this Park Sector seventy-three percent (73%) or 1,822 households in this area have an income below the Houston median household income. According to the City of Houston Housing and Community Development data (low or moderate income derived from 2000 Census as per federal regulations) 69.7% of the population is low to moderate income; therefore, this area could qualify for Community Development Block Grant (CDBG) funds.

Educational Attainment

Within Park Sector 5 the percent (6%) of individuals 25+ years of age with a Bachelor's degree or above is drastically lower than the relative percent for the entire City of Houston (28%). Conversely, the percentage of those within this Park Sector with a high school degree (27%) is higher than that of the City of Houston (23%).

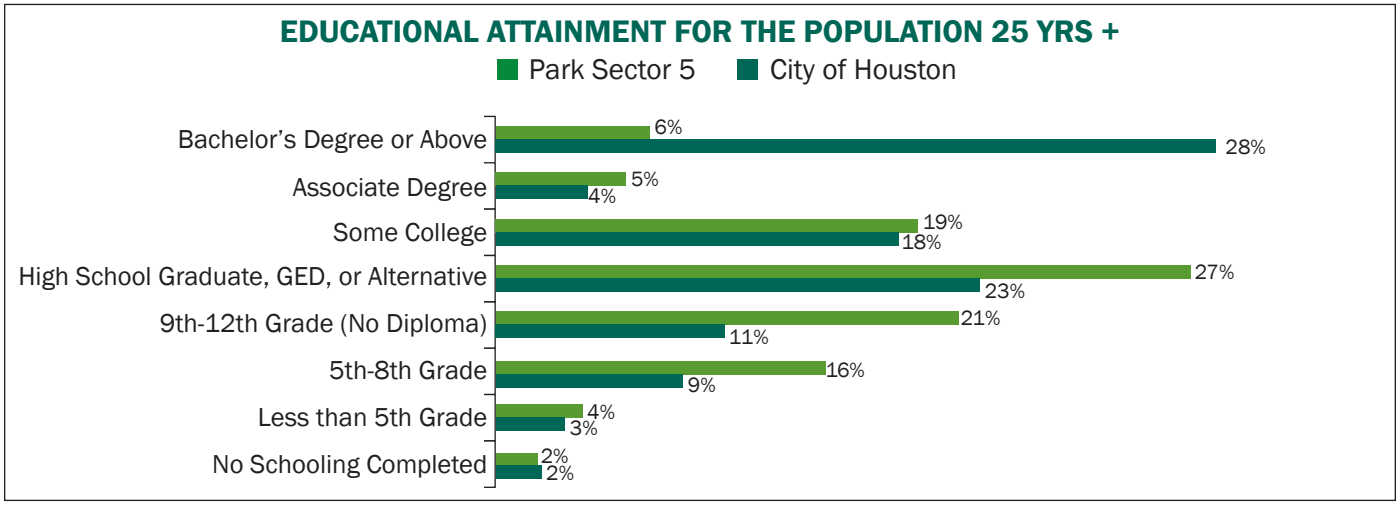


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 25.1% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that 13.3% of the adult population received a diagnosis of diabetes by a professional, which is above the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that almost 11% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is lower than that of the entire city (32%).

The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%. Finally, the survey shows that more than half of the population (59.1%) does not engage in moderate physical activity at all, which is almost three times the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

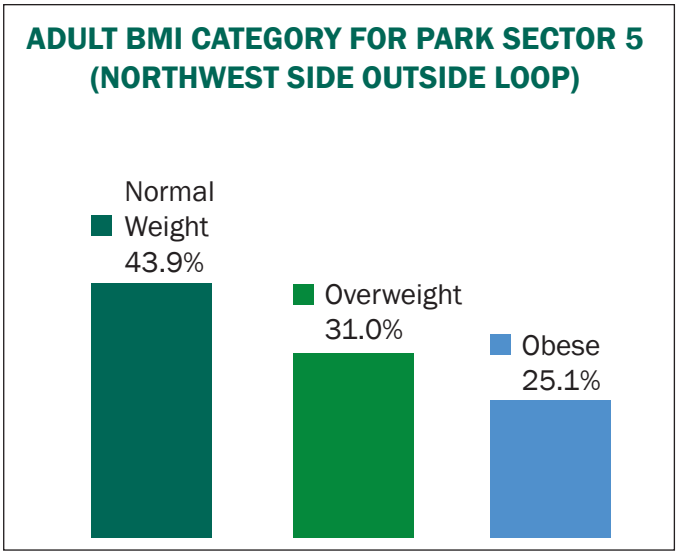


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	59.10
1	5.40
2	0.00
3	13.30
4	11.60
5	1.00
6	8.10
7	1.50

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

This Park Sector is heavily industrial due to its proximity to the Houston Ship Channel; over forty percent (41.1%) of the land acreage in Park Sector 5 is industrial land use. Almost a quarter (24.8%) of the acreage is related to transportation and 13.3% is undeveloped land. Less than 450 acres in this Park Sector are for residential purposes (single-family and multi-family). The residential areas are clustered south of I-10 and east of Loop 610.

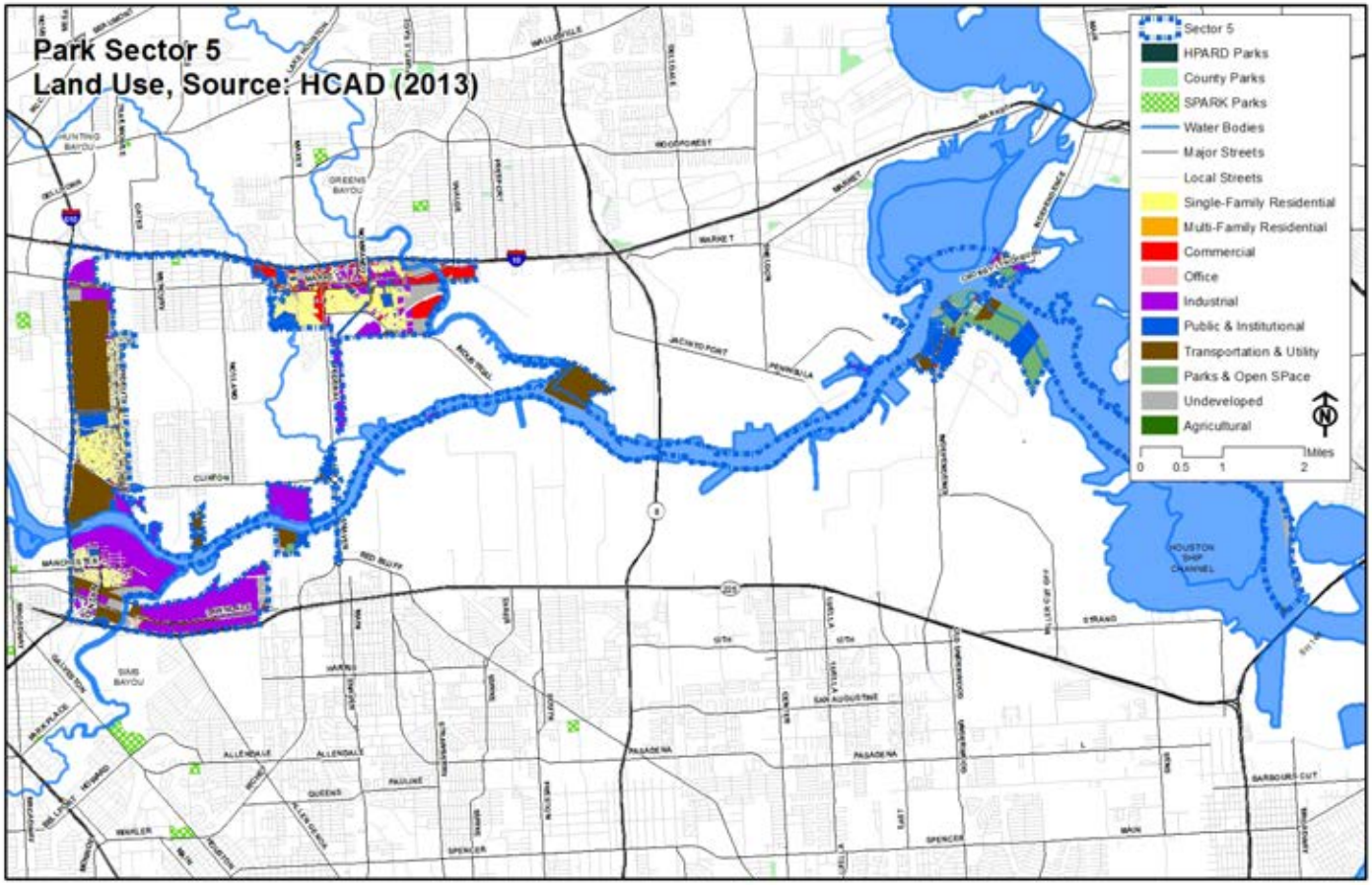


FIGURE 5. PARK SECTOR 5 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	2,467	53.5%	435	6.5%
Multi-Family	17	0.4%	13	0.2%
Commercial	143	3.1%	132	2.0%
Office	14	0.3%	11	0.2%
Industrial	331	7.4%	2,741	41.1%
Public & Institutional	311	6.7%	396	6.0%
Transportation	133	2.9%	1,653	24.8%
Parks & Open Space	26	0.6%	393	5.9%
Undeveloped	1,161	25.2%	889	13.3%
Agriculture Production	-	0.0%	-	0.0%
TOTAL	4,612	100%	6,664	100%

TABLE 4. LAND USE BY DESCRIPTION (2013 HCAD)

HPARD PARKS AND TRAILS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Samuel Spaceway	12936	Samuel Ln	0.55	N/A
Total HPARD Pocket Park Acreage			**0.55**	
Neighborhood Parks				
Hartman Park	9311	E. Avenue P	6.20	0.62
White (J.P.) Park	12501	Market St	2.70	N/A
Total HPARD Neighborhood Park Acreage			**8.90**	
Community Parks				
Clinton Park	200	Mississippi	35.20	0.42
Total HPARD Community Park Acreage			**35.20**	
Total HPARD Park Acreage			**44.65**	
Total HPARD Trail Length				**1.04**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 5

The Houston Parks and Recreation Department (HPARD) operates 4 parks in this Park Sector, accounting for 44.66 acres of parkland. Harris County operates 2 parks in this Park Sector that total of 6.90 acres of parkland. HPARD maintains 1.04 miles of trails inside the parks. There are two pedestrian/bicycle crossings over IH-10 that connect into Park Sector 4 to a series of bike routes that eventually make their way to Herman Brown Park. A 3.8-mile trail along Hunting Bayou (of which 1.5 miles is inside the city limits and passes close to a residential area) is planned according to the Bayou Greenway Initiative (BG2020).

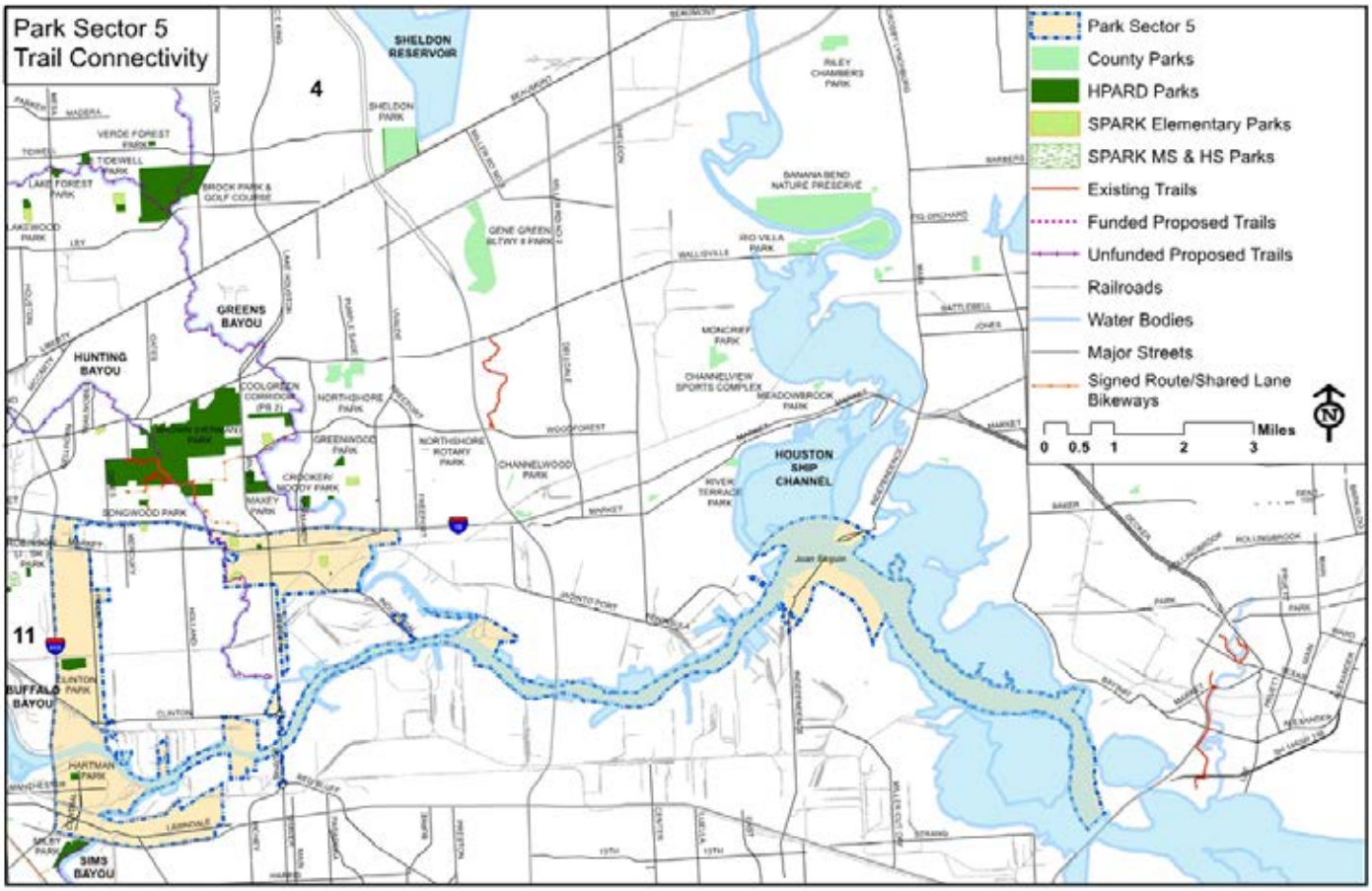


FIGURE 6. BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

County Parks and Trails

County Park				
Facility Name	**Address**	**Street**	**Total Acres**	**Trail Length**
Juan Seguin	4407	Independence Parkway	4.90	N/A
Lynchburg Townsite Cemetery			2.00	N/A
Total HC Park Acreage				**6.90**
Total HC Trail Length				**N/A**

TABLE 6. TRAILS INTERNAL TO COUNTY PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 5

SPARK Parks

There are 4 Elementary Schools participating in the SPARK Program providing access to park space and a variety of amenities to the public.

SPARK Parks				
Facility Name	**Address**	**Street**	**Total Acres**	**Amenities**
Pyburn Elementary School	12302	Coulson St	12.08	Playground
RP Harris Elementary School	1262	Mae Dr	13.36	Playground, 0.12 mi Trail, Picnic Pavilion
Whittier Elementary School	10511	LaCrosse	6.14	Playground, 0.12 mi Trail, Picnic Pavilion, Basketball Court
Woodland Acres Elementary School	12912	Myrtle Ln	10.00	Playground
Total Acres*			**41.58**	

TABLE 7. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 5 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

State Parks

State Parks - Texas Parks and Wildlife			
Facility Name	**Address**	**Street**	**Amenities**
San Jacinto Battleship State Historic Site	3523	Independence Parkway South, La Porte	Historic Landmarks, 3.2 mile trail, Picnic Area, Amphitheater, Classroom
Total Acres		**1,200**	

TABLE 8. TRAILS INTERNAL TO STATE PARKS IN PARK SECTOR 5

Open and Green Space

To determine level of service the 2007, Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by The Trust for Public Land ParkScore™ Project. Figure 6 below shows the level of service (LOS) based on the 2007 HPARD recommended standards of a number of acres per 1,000 people using the 2010 Census population. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs) 0.005 acres/1,000 people for a Pocket park, Park Sector 5 meets the standard. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 1 acres/1,000 people for a Neighborhood park, Park Sector 5 also meets this standard. For the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 1.5 acres/1,000 people for a community park, HPARD fulfills this standard in Park Sector 5.

Park Type	HPARD Park Number	HC Park Number	Other Providers	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
										Population	8,489	
Pocket Park (<1 acre)	1	0	0	0.55	0	0	0.55	0.005 ac/ 1,000 people	0.06	0.06	-0.51	-0.51
Neighborhood Park (1-15 acres)	2	2	0	8.90	6.90	0	15.8	1 ac/1,000 people	1.05	1.86	-0.41	-7.31
Community Park (16-150 acres)	1	0	0	35.20	0	0	35	1.5 ac/1,000 people	4.15	4.15	-22.47	-22.47
TOTAL	1	2	0	44.65	6.90	0	51.55				-23.39	-30.29

TABLE 9. PARK SECTOR 5 HPARD LOS AND PARKLAND NEED ANALYSIS.
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Another way to measure the level of service provided by parks is by looking at a "walkable" distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ Project study mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project. The areas in green on the map in Figure 7 represent the area within ½ mile of existing parks not blocked by freeways or major roads. Roughly 22% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, significantly lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector. According to the acreage level of service analysis in Figure 6, no parkland is needed. However, to service the areas in the single-family neighborhoods that are not currently being served along Clinton Drive and Market Street, the development of a Pocket or Neighborhood sized park might be appropriate.

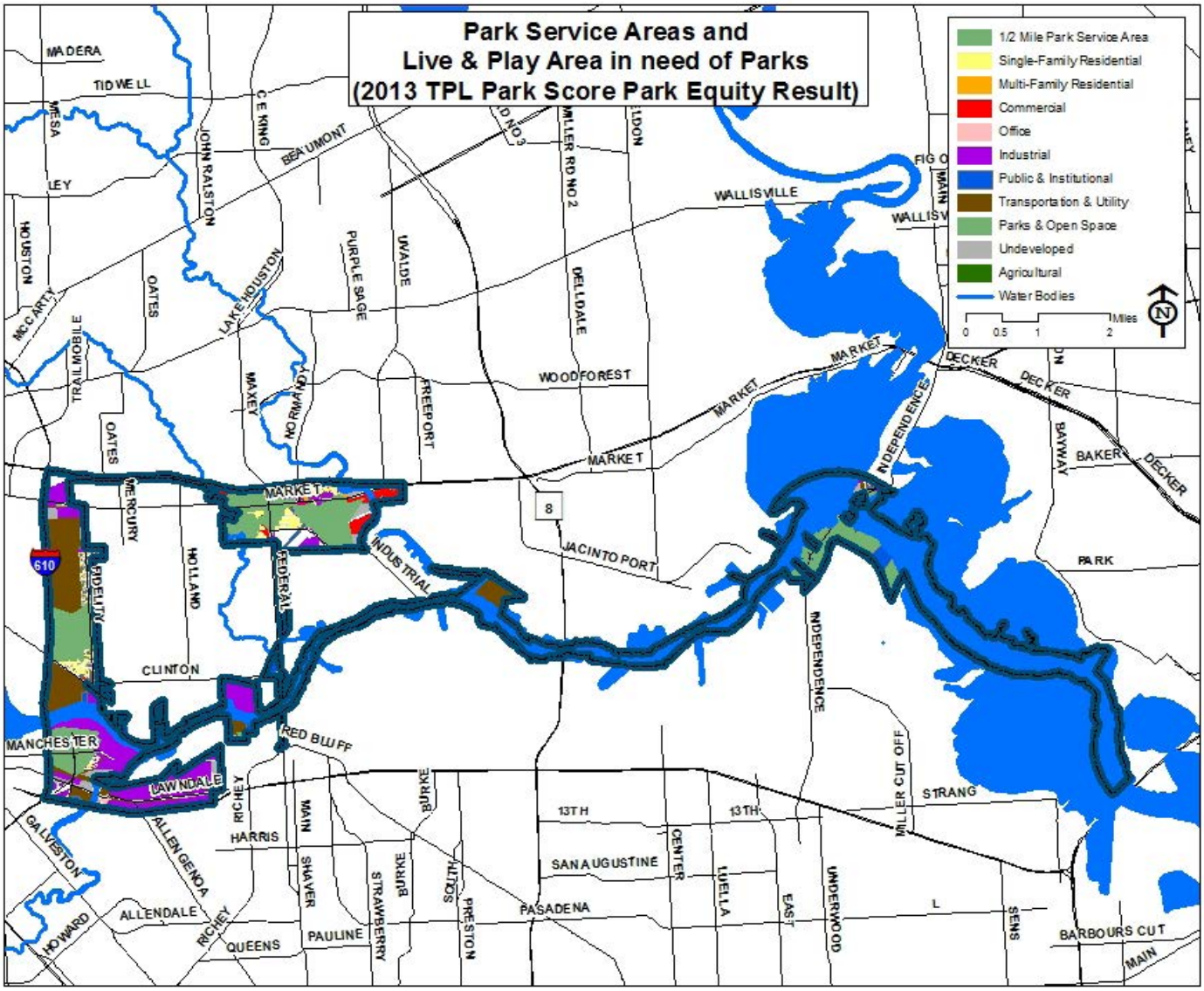


FIGURE 7. PARK SECTOR 5 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

AMENITIES AND SERVICES

This map shows some of the community services available in this area: community centers, transit centers, schools, libraries, and YMCAs. There two community services located in this Park Sector, and several organizations located adjacent to the sector area that could potentially be utilized by residents. There is one Neighborhood Center and one VFW center in Park Sector 5. Other services just outside the sector include: Pasadena Habitat for Humanity, two American Legion halls, Bay Area Homeless Services, Seamen's Church Institute and two Seafarer's Centers.

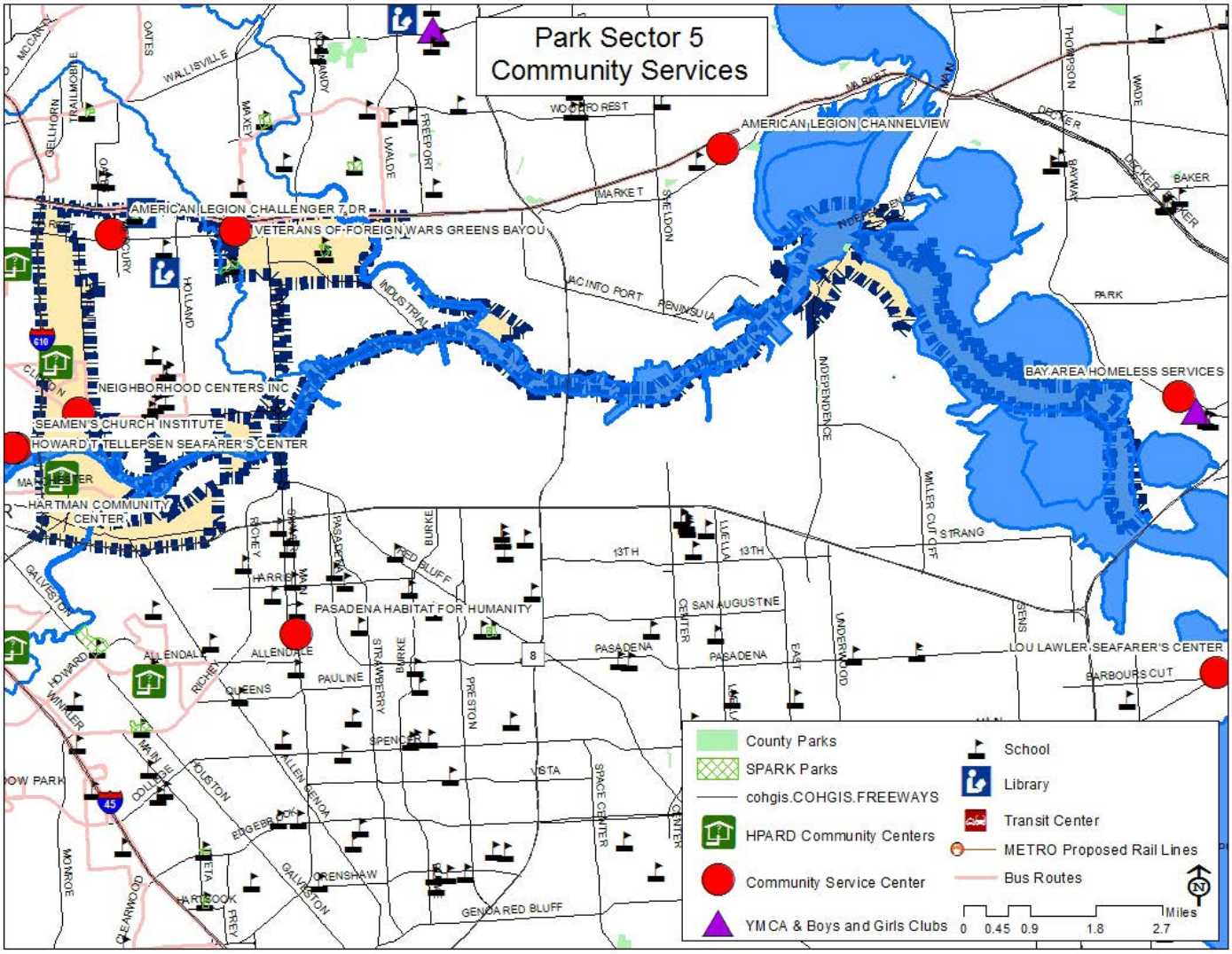


FIGURE 8. PARK SECTOR 5 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities-Level of Service

The 2007 HPARD standards by amenity have been applied to the amenities in Park Sector 5. The first column after the recommended HPARD standards indicates the level of service (LOS) accounting for HPARD facilities only, the total inventory standard accounts for facilities from all providers. Then, the standard for each amenity is compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these recommended HPARD standards, HPARD, Harris County and other providers are meeting the needs of the residents for playgrounds, picnic shelters, trails, outdoor basketball courts, tennis courts, volleyball courts, skate parks, community centers, swimming pools, and baseball fields. This Park Sector is deficient dog parks (1), spraygrounds (1), softball fields (1), and soccer fields (1).

	HPARD	Harris County	Other Providers	Total	Recommended HPARD Standard		Current HPARD Level of Service		Current Total Inventory Level of Service		HPARD NEEDS Over/ Under Service	Total Inventory NEEDS Over/ Under Standard
						Population		148,999				
Playgrounds	4	0	4	8	1	4,000	1	-	1	1,061	-2	-6
Picnic Shelters	0	0	3	3	1	10,000	0	8,489	1	2,830	1	-2
Trails	1.0	0	3.24	4.28	0.2	1,000	0.12	1,000	0.5	1,000	1	-3
Outdoor Basketball Courts	2	0	1	3	1	12,000	1	4,245	1	2,830	-1	-2
Tennis	4	0	0	4	1	10,000	1	2,122	1	2,122	-3	-3
Volleyball	1	0	0	1	1	50,000	1	8,489	1	8,489	-1	-1
Dog Parks	0	0	0	0	1	100,000	0	8,489	0	8,489	1	1
Skate Parks	1	0	0	1	1	100,000	1	8,489	1	8,489	-1	-1
Community Centers	2	0	0	2	1	30,000	1	1,415	1	1,415	-2	-2
Swimming Pools	1	0	0	1	1	50,000	1	8,489	1	8,489	-1	-1
Outdoor Spraygrounds	0	0	0	0	1	100,000	0	8,489	0	8,489	1	1
Baseball (Lit & Unlit)	2	0	0	2	1 field	30,000	1	4,245	1	4,245	-2	-2
Softball (Lit & Unlit)	0	0	0	0	1 field	30,000	0	8,489	0	8,489	1	1
Soccer (Lit & Unlit)	0	0	0	0	1 field	10,000	0	8,489	0	8,489	1	1

TABLE 10. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 5
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

There are currently no projects in progress in this Park Sector.

SUPPLEMENTAL MAPS: Park Sector 5 Council Districts

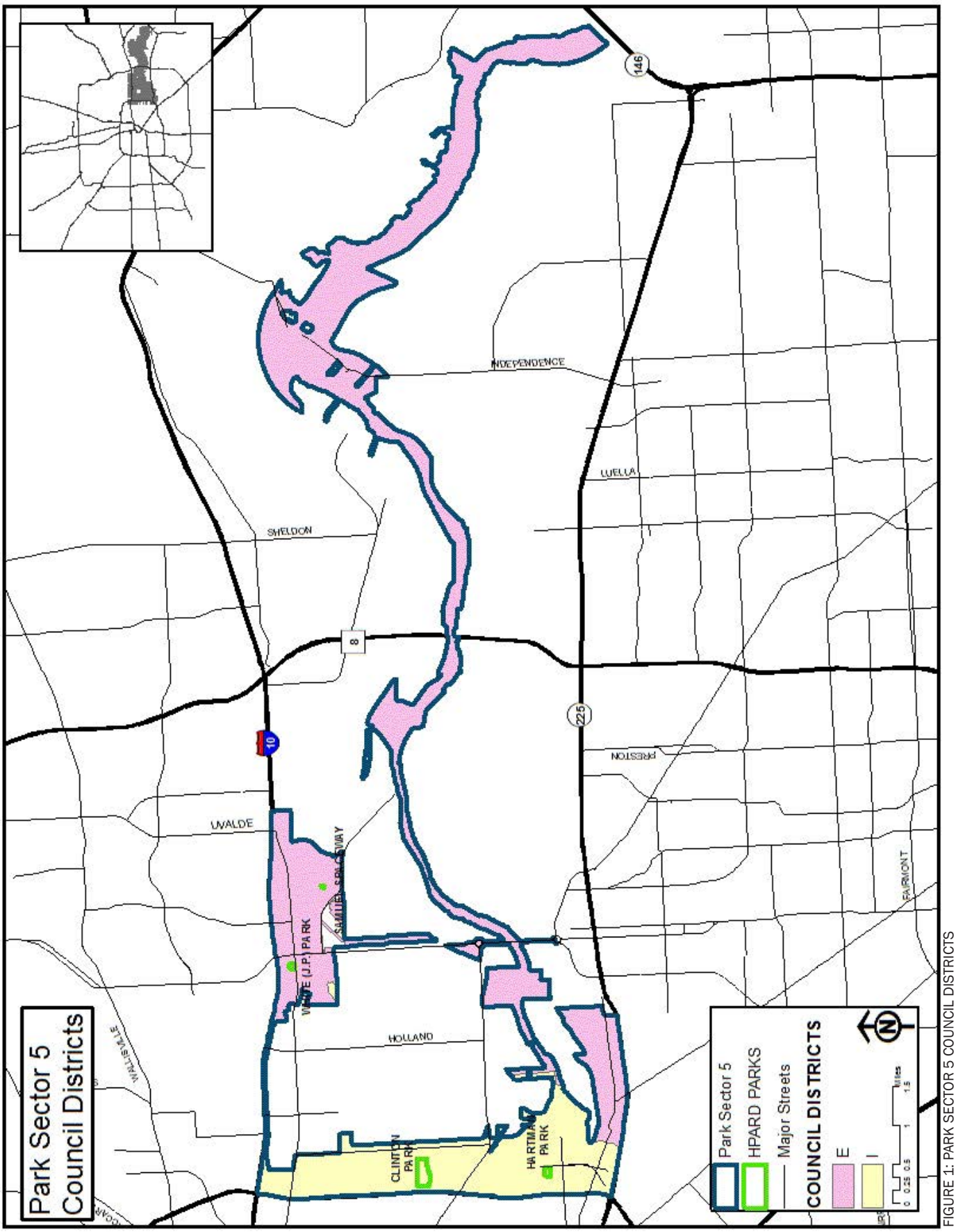


FIGURE 1: PARK SECTOR 5 COUNCIL DISTRICTS

Park Sector 5 Tax Increment Reinvestment Zone (TIRZs) and Management Districts

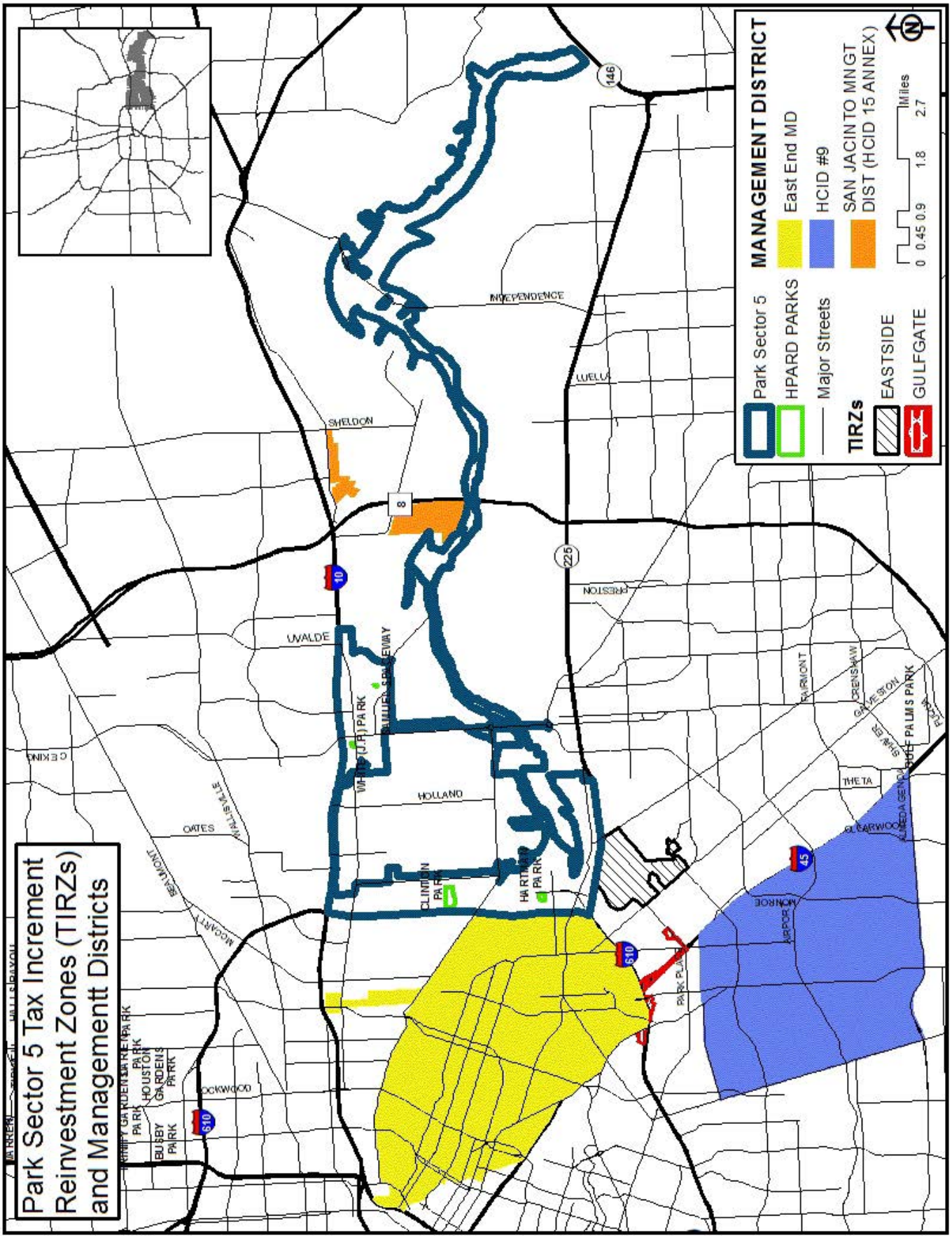


FIGURE 2: PARK SECTOR 5 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 5 Super neighborhoods

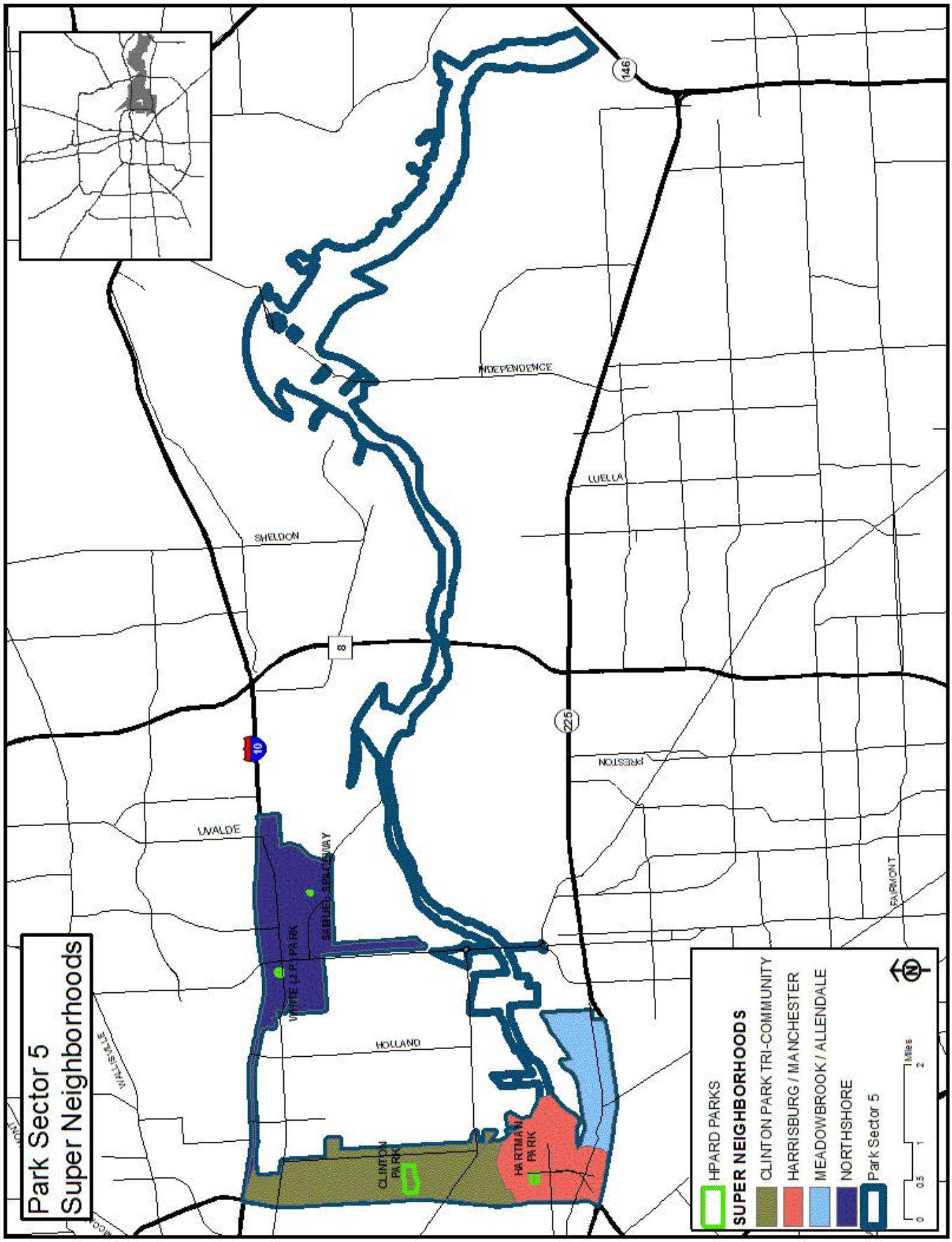


FIGURE 3: PARK SECTOR 5 SUPER NEIGHBORHOODS

Park Sector 5 Floodplain Areas

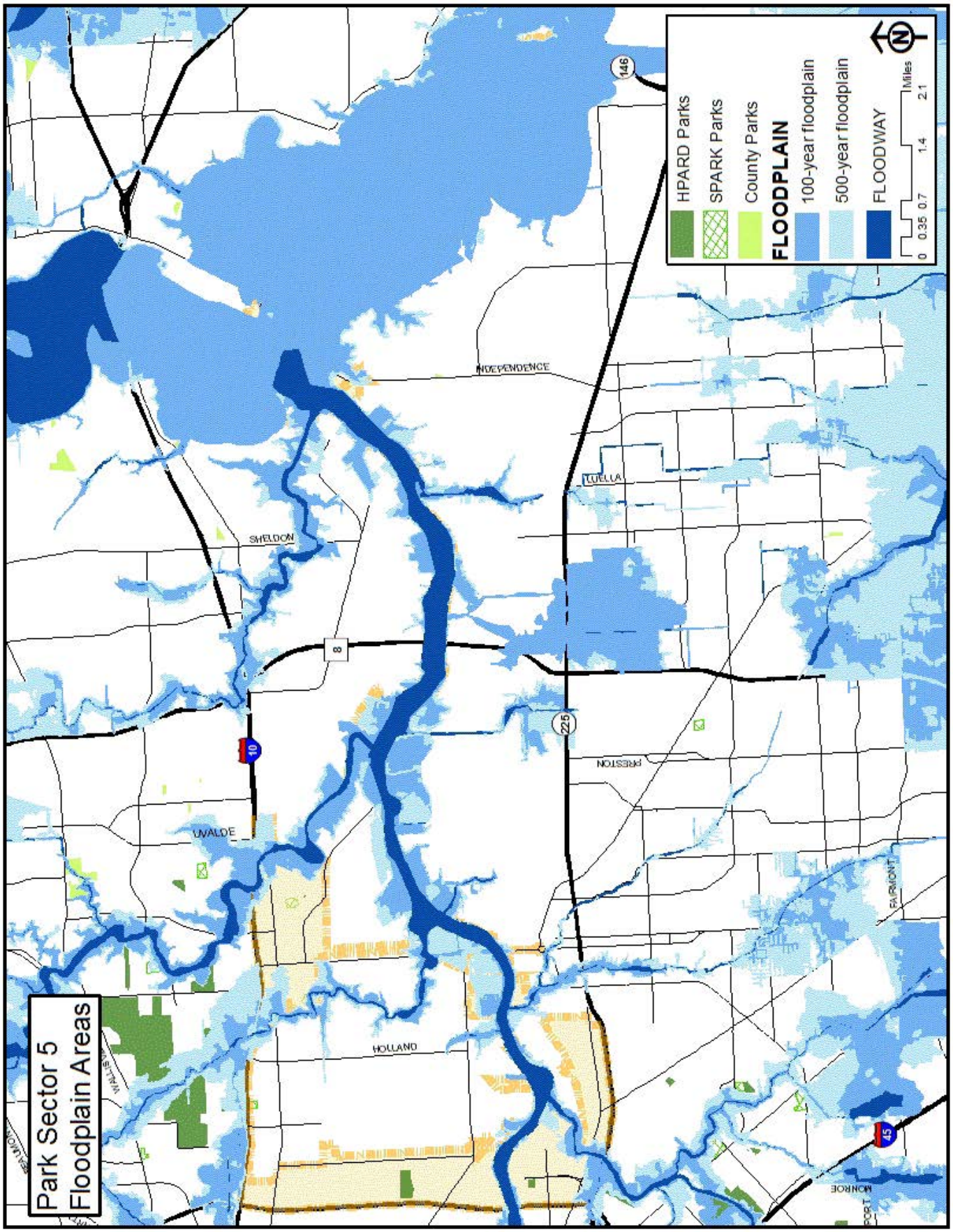


FIGURE 4: PARK SECTOR 5 FLOODPLAIN AREAS

PARK SECTOR 6

PARK SECTOR 6 SUMMARY

PARK SECTOR 6 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and data provided by the Trust for Public Land ParkScore™ Project), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Revitalize existing parks
2. Develop Neighborhood connections to parks and trails
3. Preserve environmentally sensitive areas
4. Develop partnerships with the school system and other entities
5. Acquire new parkland
6. Develop new park facilities

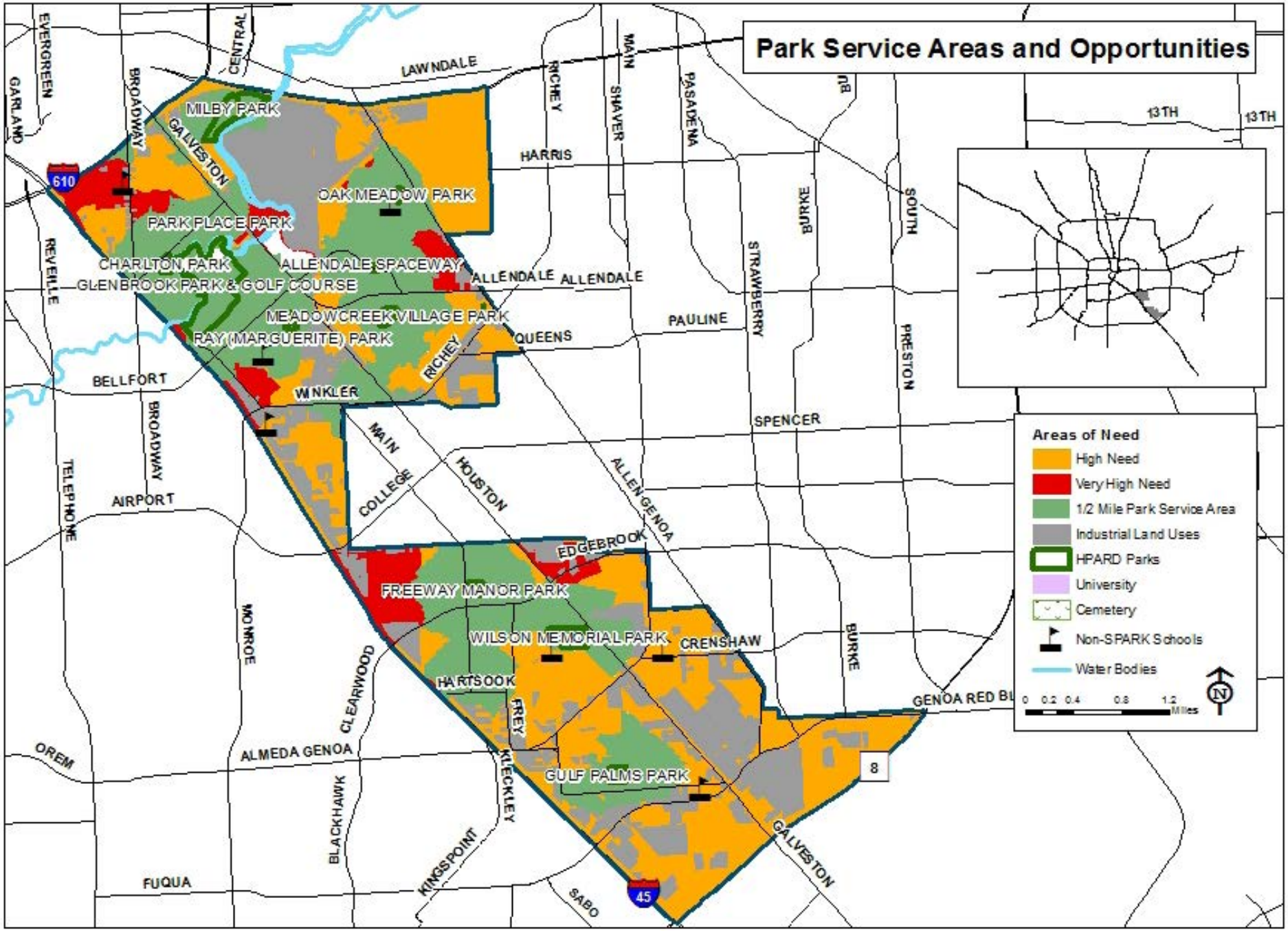
RECOMMENDATIONS

The parks in Park Sector 6 that have the highest need for redevelopment are from greatest to least: Gulf Palm Park, Park Place Park, and Ray (Marguerite) Park.

In this Park Sector 13.5 acres of parkland are needed. The areas with the most need in this Park Sector are those closest to I-610 and I-45 and in the southern area by Beltway 8. Schools not participating in the SPARK School Park Program (Non-SPARK schools) should be explored as potential future partnerships for park space. Additionally, almost 60% of the population in this Park Sector has incomes considered to be low to moderate. Pursuing Community Development Block Grants (CDBG) for park improvements should be a priority. In addition, CDBG funding could be considered in partnership with the SPARK program to add park space to the system and provide improvements at non-SPARK schools. As there is little redevelopment occurring in this Park Sector, this Park Sector should be targeted for CIP and bond funds for future development and land acquisition. This Park Sector is deficient in playgrounds, picnic shelters, trails, dog parks, skate parks, and spraygrounds.

A trail along Sims Bayou west I-45 South is planned to be almost 14 miles long. Additional north-south connections need to be explored in this Park Sector. In the 2014 survey, the top three priorities of residents in Park Sector 6 when asked what recreational needs existed in their Neighborhood were: upgraded community centers, hike, bike and walk trails, and playground areas. In the write-in portion of the survey residents asked for senior programming, fitness classes, swim lessons and arts and crafts programs, adult tennis programs, and dance and theater programs. The Health of Houston survey revealed that 40.3% of the population is obese in this Park Sector (the City of Houston level is 30.8%). Based on this health profile, partnerships focused on increasing physical activity levels and programming that promote healthy living should be explored.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector


Park Service Areas and Opportunities
Areas of Need
High Need
Very High Need
1/2 Mile Park Service Area
Industrial Land Uses
HPARD Parks
University
Cemetery
Non-SPARK Schools
Water Bodies
0 0.2 0.4 0.8 1.2 Miles
MILBY PARK
OAK MEADOW PARK
PARK PLACE PARK
CHARLTON PARK
GLENBROOK PARK & GOLF COURSE
ALLENDALE SPACEWAY
MEADOWCREEK VILLAGE PARK
RAY (MARGUERITE) PARK
FREEWAY MANOR PARK
WILSON MEMORIAL PARK
GULF PALMS PARK
LAWNDALE
HARRIS
ALLENDALE
PAULINE
QUEENS
SPENCER
BELLFORT
AIRPORT
EDGEBROOK
CRENSHAW
HARTSOOK
ALMEDA GENOA
FUQUA
GENOA RED BL
13TH
610
45
8

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Park Place Park	8600	Detroit	0.89	N/A
	Total HPARD Pocket Park Acreage		**0.89**	
Neighborhood Parks				
Allendale Spaceway	9300	Howard	1.33	N/A
Charlton Park	8200	Park Place	8.70	N/A
Freeway Manor Park	2241	Bronson/2300 Theta	9.76	0.47
Gulf Palms Park	11901	Palm Springs	9.00	0.41
Meadowcreek Village Park	5333	Berry Creek	10.06	N/A
Oak Meadow Park	500	Ahrens	5.13	0.25
Ray (Marguerite) Park	8401	Elrod	4.85	N/A
	Total HPARD Neighborhood Park Acreage		**48.83**	
Community Parks				
Glenbrook Park and Golf Course	8201	North Bayou Drive	135.00	0.51
Milby Park	2001	Central	65.88	N/A
Wilson Memorial Park	100	Gilpin	29.00	0.28
	Total HPARD Community Park Acreage		**229.88**	
	Total HPARD Park Acreage		**279.70**	
	Total HPARD Trail Length			**1.90**

EXISTING COMMUNITY CENTERS AND POOLS

Community Centers and Pool Facilities	Address	Zip Code	Agency Responsible
Charlton Community Center	8200 Park Place	77017	HPARD
Glenbrook Park Pool	8201 North Bayou Drive	77017	HPARD
Meadowcreek Village Community Center	5333 Berry Creek	77017	HPARD
Wilson Memorial Park Pool	100 Gilpin	77034	HPARD

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger).The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Approximately 45% of the area in this Park Sector is in need of parkland accessible within a ½ mile, which is lower than the City of Houston as a whole of (55%). Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains 280 acres of parkland (Harris County, HPARD & other providers). Of the 9,489 acres in this Park Sector, 3% of this acreage is parkland.
- There are approximately 62,000 residents; almost 80% are Hispanic (higher than City of Houston's percentage of 43.8%)
- An additional 13.5 acres of parkland are needed in Park Sector 6. The map above shows high need in the northwest portion of the sector close to I-610 and I-45 and in the southern area close to Beltway 8. This is based on the current population (2010 US Census) of the Park Sector and needs assessment done for Pocket, Neighborhood and Community parks (number of acres per 1,000 people).
- H-GAC population projections estimate that this area will add over 7,000 residents by 2040. To meet the parkland needs for the estimated 2040 population an additional 8 acres of parkland will be needed.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and standards used in the 2007 Master Parks Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	16	6	13	6	14	2	1	1	2	2	1	3	4	8
2015 Existing	14	5	5*	6	14	2	0	0	2	2	0	3	4	8
2015 Needed	2	1	8	-	-	-	1	1	-	-	1	-	-	-
2040 Needed	2	1	3	-	-	-	-	-	-	-	-	-	-	-

* This number includes 2.5 miles of trails currently planned along Sims Bayou from SH225 to I-45 South under the Bayou Greenways, BG2020

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.

2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.

3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.

4. Annual Operation & Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation per resident in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$13,000,000	13 Acres- $1,000,000	$14,000,000	$4,000,000
2040	$2,000,000	8 Acres- $1,000,000	$32,000,000	$400,000
TOTAL 2040	$15,000,000	21 Acres- $2,000,000	$46,000,000	$4,400,000

PARK SECTOR PROFILE 6

LOCATION AND POLITICAL BOUNDARIES

Park Sector 6 is located east of 45, northwest of Beltway 8, south of SH 225, and southeast of 610.
Park Sector Size: 9,489 acres or 15 square miles
Population: 62,305 people, Density: 4,210 persons/sq. mi.
Political Boundaries within Park Sector 6:

- Council Districts: I and E
- Super neighborhoods contained in this Park Sector: Park Place, Meadowbrook/Allendale, Edgebrook Area, and South Belt/ Ellington
- TIRZ: Eastside
- Management Districts: N/A

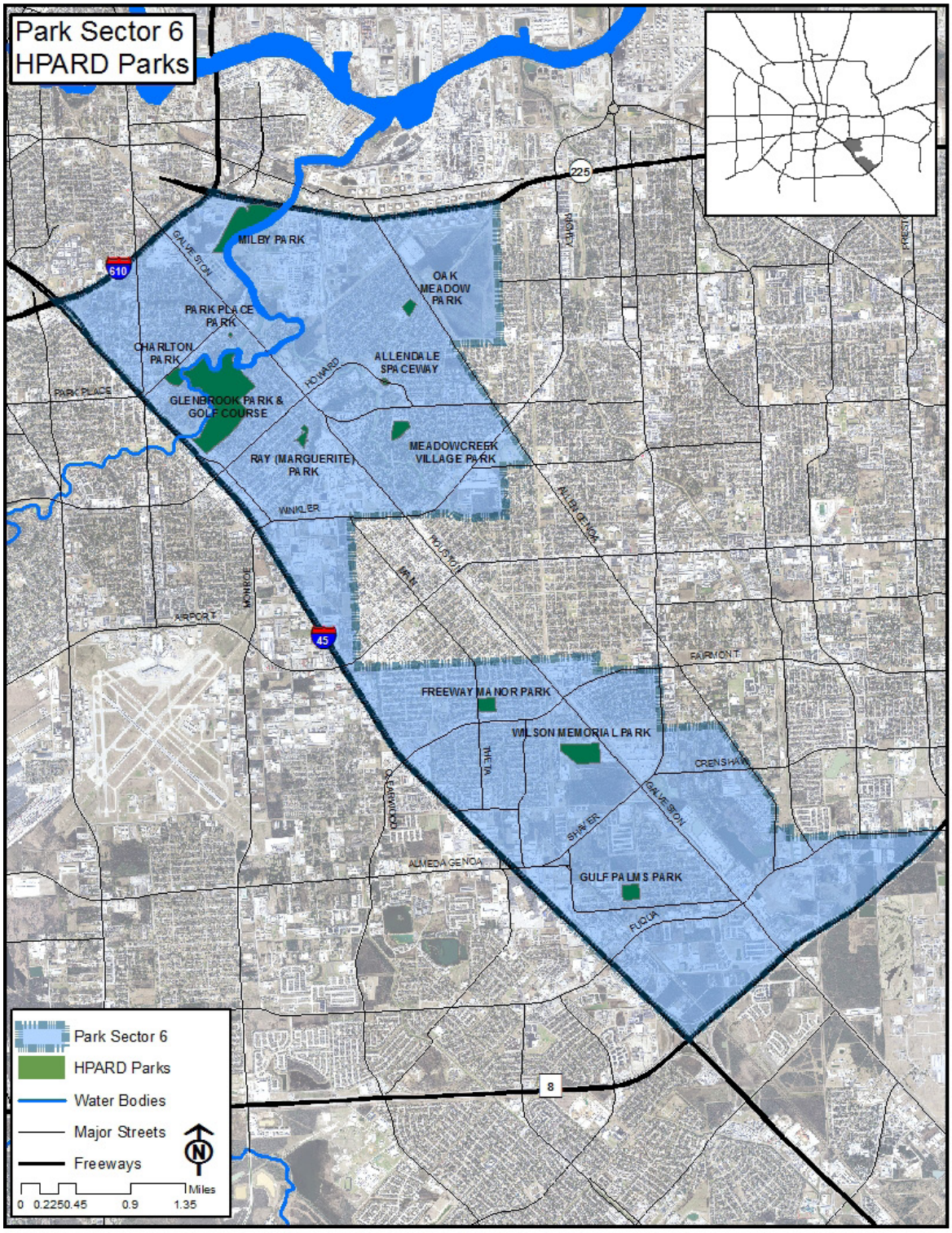


FIGURE 1. PARK SECTOR 6 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 6 Population	Park Sector 6 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**62,305**	-	2,119,831	-
Hispanic or Latino	48,571	78.0%	919,668	43.8%
Non-Hispanic White	7,662	12.3%	537,901	25.6%
Non-Hispanic Black	3,491	5.6%	485,956	23.1%
Non-Hispanic American-Indian	93	0.1%	126,098	6.1%
Non-Hispanic Asian	2,128	3.4%		
Non-Hispanic Hawaiian or Pacific Islander	19	0.0%		
Non-Hispanic Some Other Race	341	0.6%	26,828	1.3%

TABLE 1. PARK SECTOR 6 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains 2.9% of the population of Houston. The majority (78.0%) of residents are Hispanic/Latinos, followed by Non-Hispanic Whites (12.3%), Non-Hispanic Blacks (5.6%), and Non-Hispanic Asians (3.4%). The majority of the population lives in the areas closest to IH-45, while the areas further east towards the Houston Ship Channel are less populated.

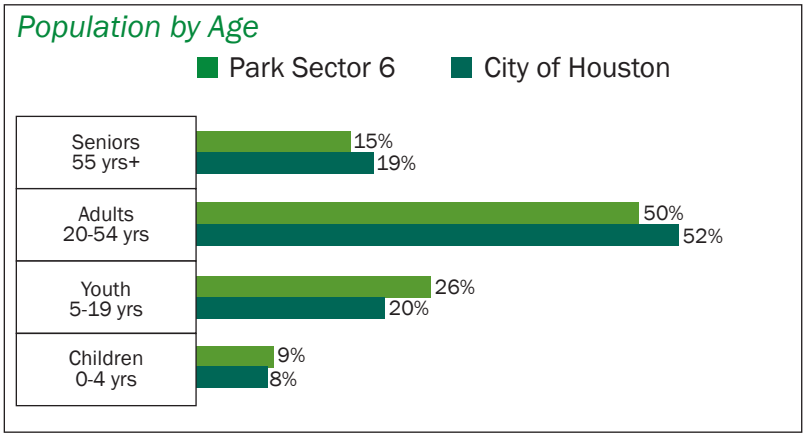


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 6 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

Breakdown of the age groups, as shown in Figure 2., reveals that the percent of youth 5-19 yrs (26%) is higher than the rest of the City of Houston (20%). There are less (15%) people 55+ years than the rest of the City of Houston (19%). These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 6 Population	PS 6 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	5,911	9%	9%	166,066	8%	8%
Youth	5-9 yrs	5,703	9%	26%	148,843	7%	21%
	10-14 yrs	5,372	8%		135,622	7%	
	15-19 yrs	5,238	8%		140,673	7%	
Adults	20-34 yrs	15,163	24%	50%	539,348	26%	52%
	35-44 yrs	8,810	14%		286,117	14%	
	45-54 yrs	7,455	12%		265,060	13%	
Senior	55-64 yrs	5,030	8%	15%	204,852	10%	19%
	65 yrs +	4,661	7%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 6 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 18,837 housing units in this Park Sector. The percent of vacant housing in Park Sector 6 (11.5%) is slightly lower than that of the vacancy rates for the entire city (12.3%). Home ownership for this Park Sector (47.4%) is higher than that of the City of Houston (39.7%); conversely, the share of renters (41%) is lower than the city's as a whole (47.1%).

Income

The median household income for this Park Sector ($38,717) is lower than that of the City of Houston ($48,322). Sixty-three (63%) of people in this area have an income below the Houston median household income, which would make this are eligible for Community Development Block Grant (CDBG) funding.

Educational Attainment

Within Park Sector 6 the percent (10%) of individuals 25+ years of age with a Bachelor's degree is significantly lower than the relative percent for the entire City of Houston (28%). Conversely, the percentage of those within this Park Sector with only a high school degree (29%) is higher than the same population for the City of Houston (23%).

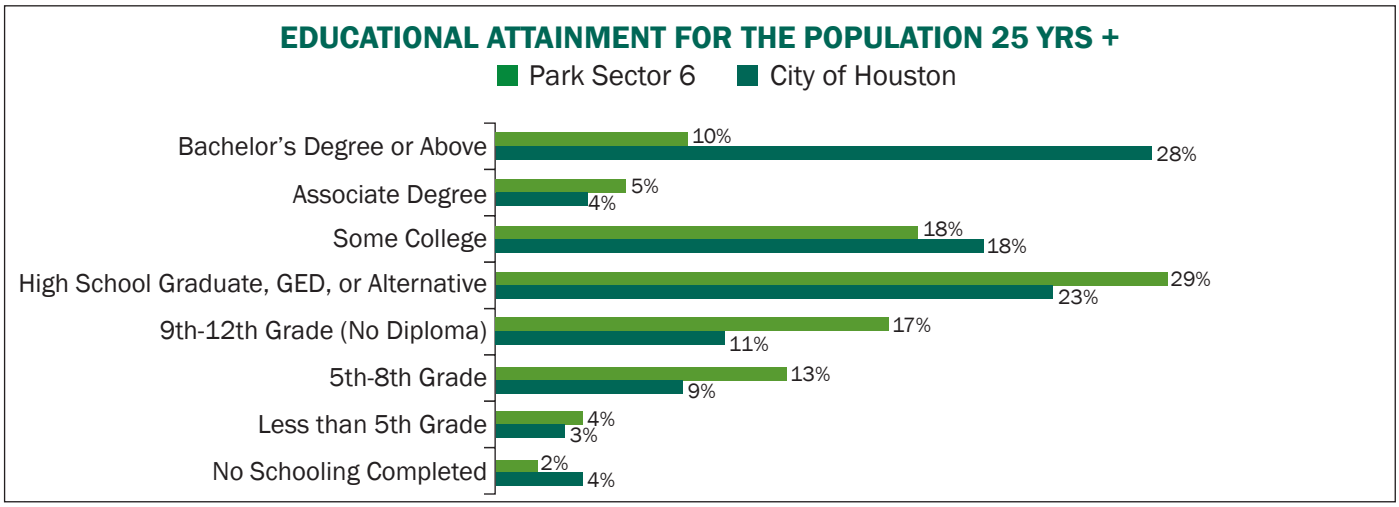


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 40.3% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that 5.3% of the adult population received a diagnosis of diabetes by a professional, which is below the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that over 28% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is slightly lower than that of the entire city (32%). The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%. Finally, the survey shows that over a quarter of the population (27.1%) does not engage in moderate physical activity at all, which is higher than the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

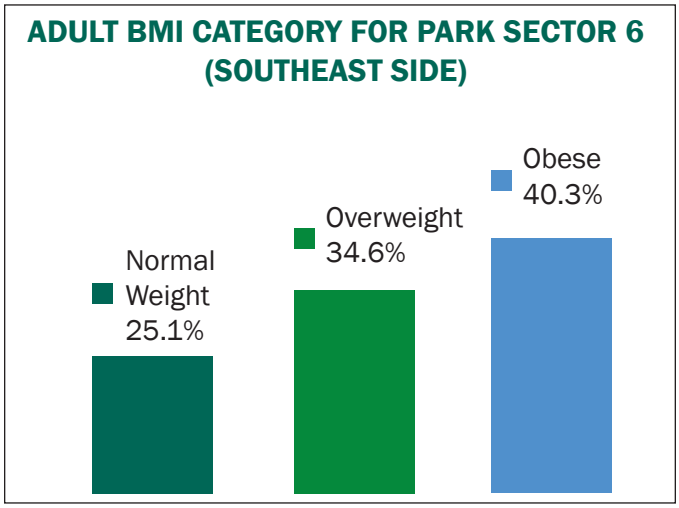


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	27.10
1	2.90
2	16.50
3	15.50
4	9.90
5	12.30
6	0.60
7	15.30

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	12,263	81.3%	2,498	35.0%
Multi-Family	808	5.4%	350	4.9%
Commercial	356	2.4%	414	5.8%
Office	48	0.3%	76	1.1%
Industrial	366	2.4%	1,557	21.8%
Public & Institutional	185	1.2%	737	10%
Transportation	56	0.4%	343	4.8%
Parks & Open Space	56	0.4%	200	2.8%
Undeveloped	913	6.1%	911	12.7%
Agriculture Production	20	0.1%	60	0.8%
TOTAL	15,085		7,145	

TABLE 4. LAND USE BY DESCRIPTION (2013 HCAD)

Forty percent (40%) of the acreage in Park Sector 6 is made up of single family and multi-family residential. About 22% of the acreage is classified as industrial with refineries on the east side of Sims Bayou. Over 12% of the acreage in this Park Sector is classified as undeveloped. Compared to other Park Sectors, this Park Sector has a high percent of acreage classified as transportation and utility. These large tracts of land east and west of Sims Bayou and in the southern portion of the Park Sector will be explored further to understand their use.

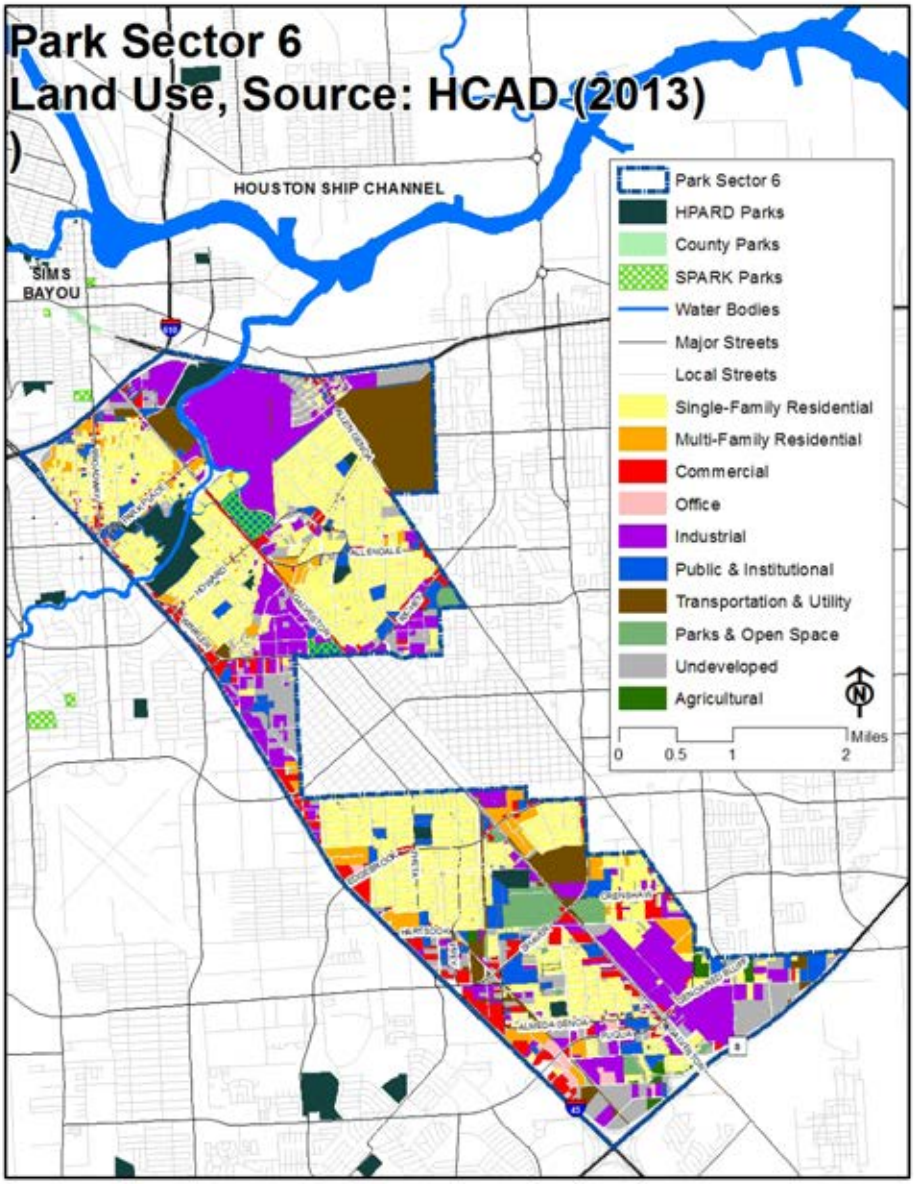


FIGURE 5. PARK SECTOR 6 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

HPARD PARKS AND TRAILS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Park Place	8600	Detroit	0.89	N/A
Total HPARD Pocket Park Acreage			**0.89**	
Neighborhood Parks				
Allendale Spaceway	9300	Howard	1.33	N/A
Charlton Park	8200	Park Place	8.70	N/A
Freeway Manor Park	2241	Bronson/2300 Theta	9.76	0.47
Gulf Palms Park	11901	Palm Springs	9.00	0.41
Meadowcreek Village Park	5333	Berry Creek	10.06	N/A
Oak Meadow Park	500	Ahrens	5.13	0.25
Ray (Marguerite) Park	8401	Elrod	4.85	N/A
Total HPARD Neighborhood Park Acreage			**48.83**	
Community Parks				
Glenbrook Park and Golf Course	8201	North Bayou Drive	135.00	0.51
Milby Park	2001	Central	65.88	N/A
Wilson Memorial Park	100	Gilpin	29.00	0.28
Total HPARD Community Park Acreage			**229.88**	
		Total HPARD Park Acreage	**279.7**	
		Total HPARD Trail Length		**1.9**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 6

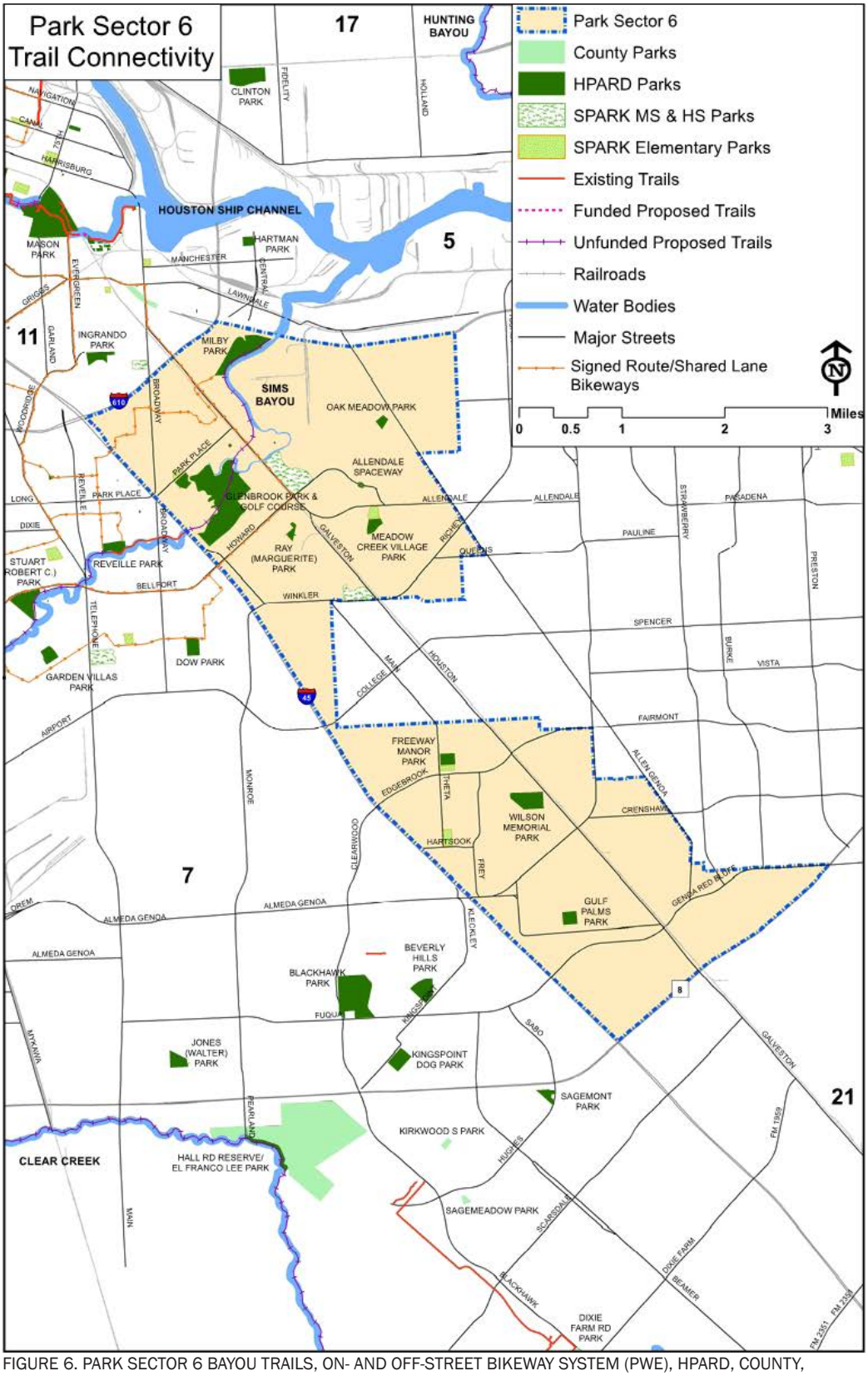


FIGURE 6. PARK SECTOR 6 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

This Park Sector as show on Figure 6 is trail poor. A trail along Sims Bayou would provide 2.5 miles of trails inside the Park Sector and would connect to the existing trail along Simms Bayou west of I-45. The Sims Bayou trail east of Sims Bayou is planned to be over 13 miles long. Additional north-south connections need to be explored in this Park Sector.

County Parks and Trails

No county parks are located within Park Sector 6.

SPARK Parks

There are 4 Elementary Schools, one Middle School and one High School participating in the SPARK Program providing access to park space and a variety of amenities to the public.

SPARK Parks				
Facility Name	**Address**	**Street**	**Total Acres**	**Amenities**
Chavez High School	4725	Galveston Rd	53.14	0.27 mi Trail, Basketball Court, Baseball Field (unlit), Softball Field (unlit), Soccer Field (unlit), 5 Tennis Courts
Freeman Elementary School	2323	Theta St	4.90	Playground
Garfield Elementary School	10301	Hartsook St	8.84	Playground
Park Place Elementary School	8235	Park Place Blvd	3.13	Playground, Swing Set, Soccer Field, 0.19 mi Trail
Patterson Elementary School	5302	Allendale Rd	6.90	2 playgrounds
Stevenson Middle School	9595	Winkler Rd	18.80	0.21 mi Trail, 2 Full Basketball Courts, Soccer Field
Total Acres*			**95.71**	

TABLE 6. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 6 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

Open and Green Space

To determine level of service the 2007 Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by the Trust for Public Land ParkScore™ Project. Figure 6 below shows the level of service (LOS) based on the 2007 HPARD recommended standards of a number of acres per 1,000 people using the 2010 Census population. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 0.005 acres/1,000 people for a Pocket park, Park Sector 6 meets the standard. Additionally, the standard of 1.5 acres/1,000 people for a Community park, Park Sector 6 also meets the standard. 13.48 acres of Neighborhood Parks are needed in Park Sector 6. The analysis for level of service and needs is shown below.

Park Type	HPARD Park Number	HC Park Number	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
									Population	62,305	
Pocket Park (<1 acre)	1	0	0.9	0	0	0.9	0.005 ac/ 1,000 people	0.01	0.01	-0.58	-0.58
Neighborhood Park (1-15 acres)	7	0	48.8	0	0	48.8	1 ac/1,000 people	0.78	0.78	13.48	13.48
Community Park (16-150 acres)	3	0	229.9		0	229.9	1.5 ac/1,000 people	3.69	3.69	-136.42	-136.42
TOTAL	11	0	279.6	0	0	279.60				13.48	13.48

TABLE 7. HPARD LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Another way to measure the level of service provided by parks is by looking at a "walkable" distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ Project study mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project. The areas in green on the map below represent the area within ½ mile of existing parks not blocked by freeways or major roads. Roughly 45% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector.

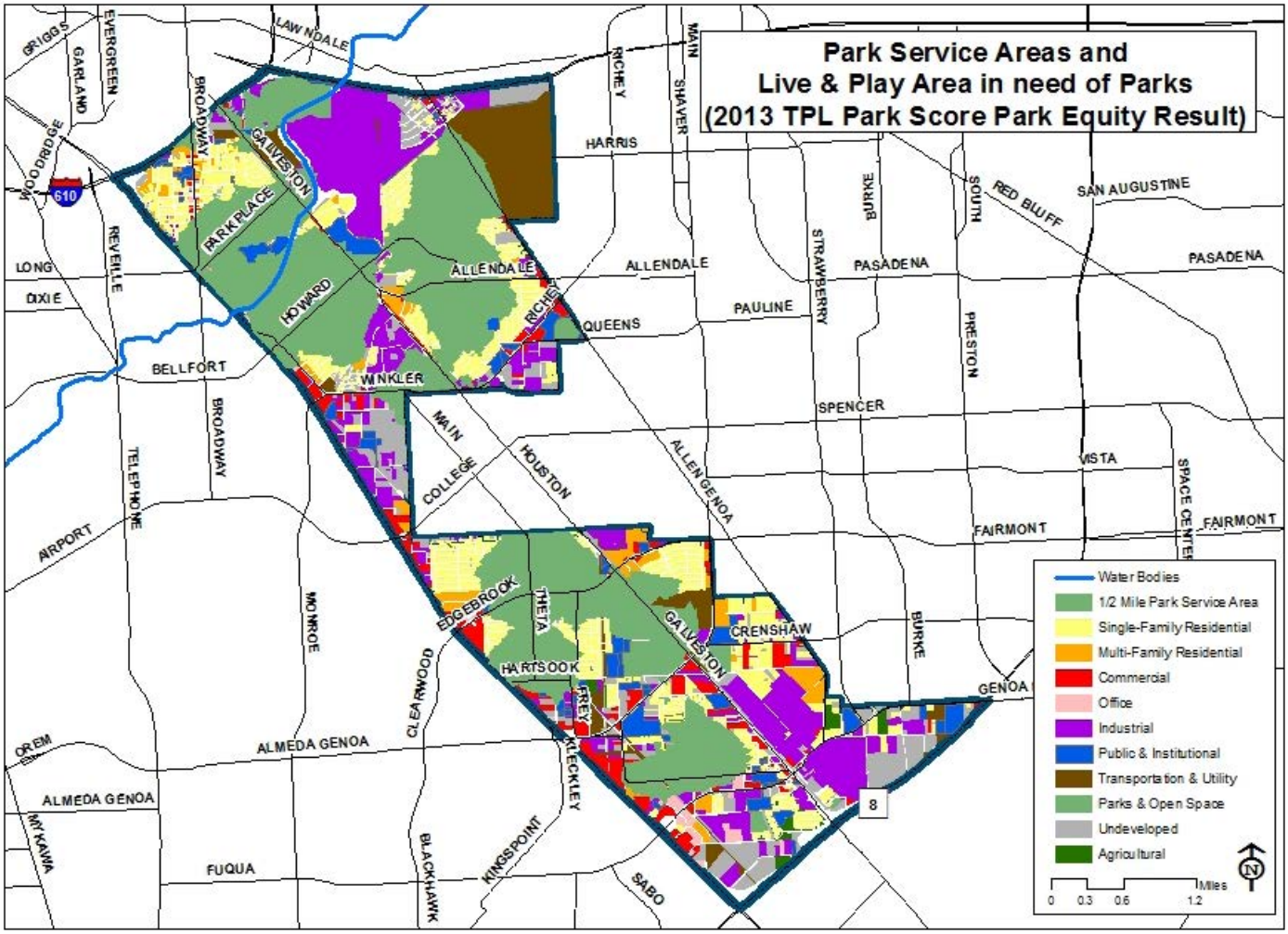


FIGURE 7. PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

AMENITIES AND SERVICES

This map shows some of the community services available in this area: community centers, transit centers, schools, and YMCAs. There are two community centers located in Park Sector 6: Charleton and Meadowcreek Community Centers. Also located in this Park Sector is the Tejano Center for Community Concerns that offers services such as: open enrollment charter school, teen clinic, juvenile delinquency program, adult education, and affordable housing services. The libraries in this Park Sector provide computer access, community meeting space, and education programs.

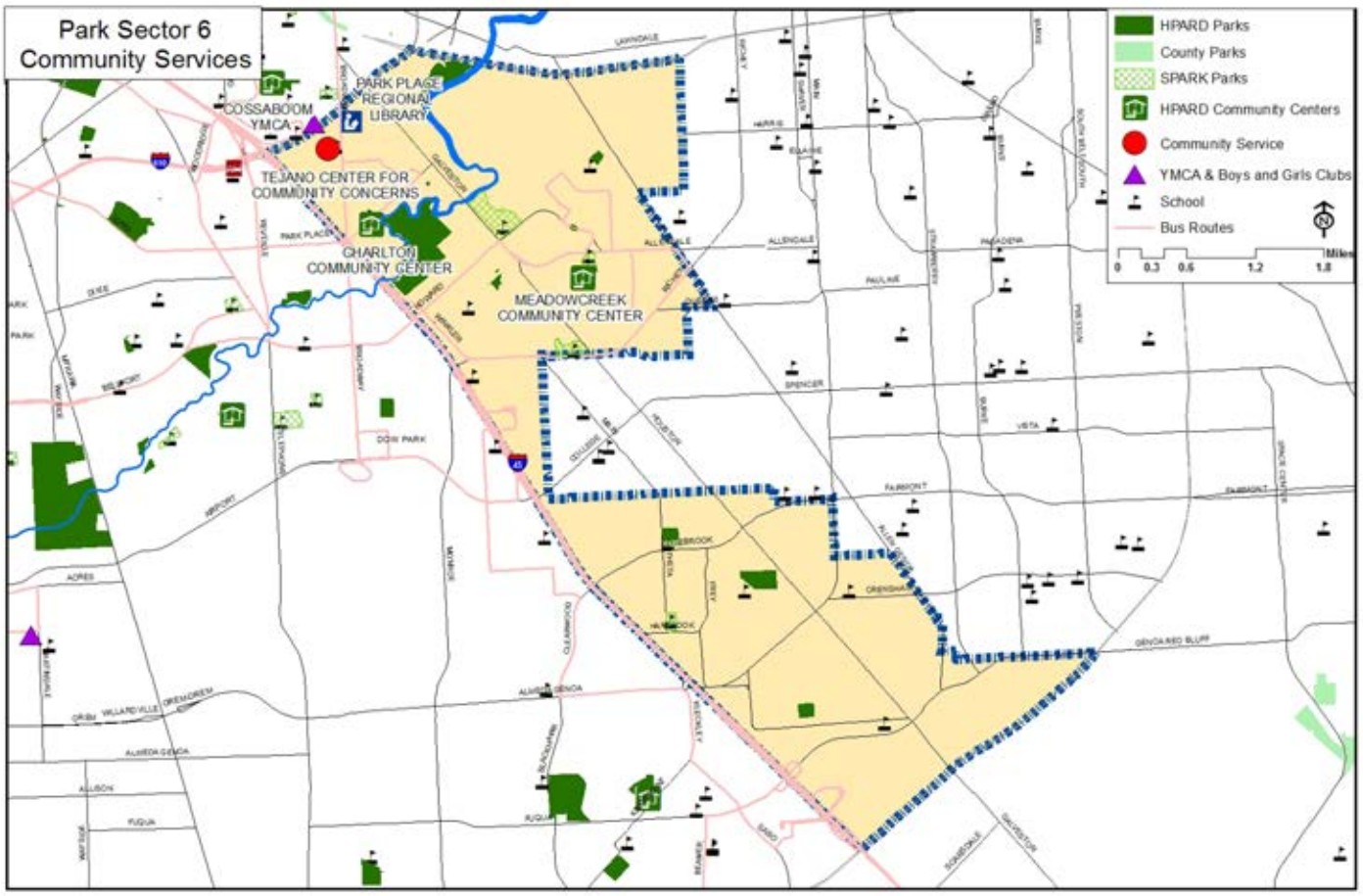


FIGURE 8. COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities-Level of Service

The 2007 HPARD standards by amenity have been applied to the amenities in Park Sector 6. The first column after the recommended HPARD standards indicates the level of service (LOS) accounting for HPARD facilities only, the total inventory standard accounts for facilities from all providers. Then, the standard for each amenity is compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these recommended HPARD standards, Harris County and other providers are meeting the needs of the residents for outdoor basketball courts, tennis courts, volleyball courts, community centers, swimming pools, ball fields and soccer fields. This Park Sector is deficient in playgrounds (2), picnic shelters (2), trails (10 miles), dog parks (1), skate parks (1), and spraygrounds (1).

	HPARD	Harris County	Other Providers	Total	Recommended HPARD Standard		Current HPARD Level of Service		Current Total Inventory Level of Service		HPARD NEEDS Over/ Under Service	Total Inventory NEEDS Over/ Under Standard
						Population		62,305				
Playgrounds	9	0	5	14	1	4,000	1	6,923	1	4,450	7	2
Picnic Shelters	5	0	0	5	1	10,000	1	12,461	1	12,461	1	1
Trails (developed, not natural, off-street)	1.92	0.0	0.67	2.59	0.2	1,000	0.03	1,000	0.04	1,000	11	10
Outdoor Basketball Courts	5	0	1	6	1	12,000	1	12,461	1	10,384	0	-1
Tennis	9	0	5	14	1	10,000	1	6,923	1	4,450	-3	-8
Volleyball	2	0	0	2	1	50,000	1	31,153	1	31,153	-1	-1
Dog Parks	0	0	0	0	1	100,000	0	62,305	0	62,305	1	1
Skate Parks	0	0	0	0	1	100,000	0	62,305	0	62,305	1	1
Community Centers	2	0	0	2	1	30,000	1	31,153	1	31,153	0	0
Swimming Pools	2	0	0	2	1	50,000	1	31,153	1	31,153	-1	-1
Outdoor Spraygrounds	0	0	0	0	1	100,000	0	62,305	0	62,305	1	1
Baseball (Lit & Unlit)	3	0	0	3	1 field	30,000	1	20,768	1	20,768	-1	-1

TABLE 8. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 6
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- In July of 2012, Glenbrook Park used $80,000 of Parks and Open Space funds in the construction a picnic pavilion. A new playground and ball field lights was also installed. The Glenbrook pool was also renovated for $1.3 million.

- In February 2014 Milby Park received a playground, a new soccer field, irrigation, field lighting, perimeter fence, and electrical service.

SUPPLEMENTAL MAPS: Park Sector 6 Council Districts

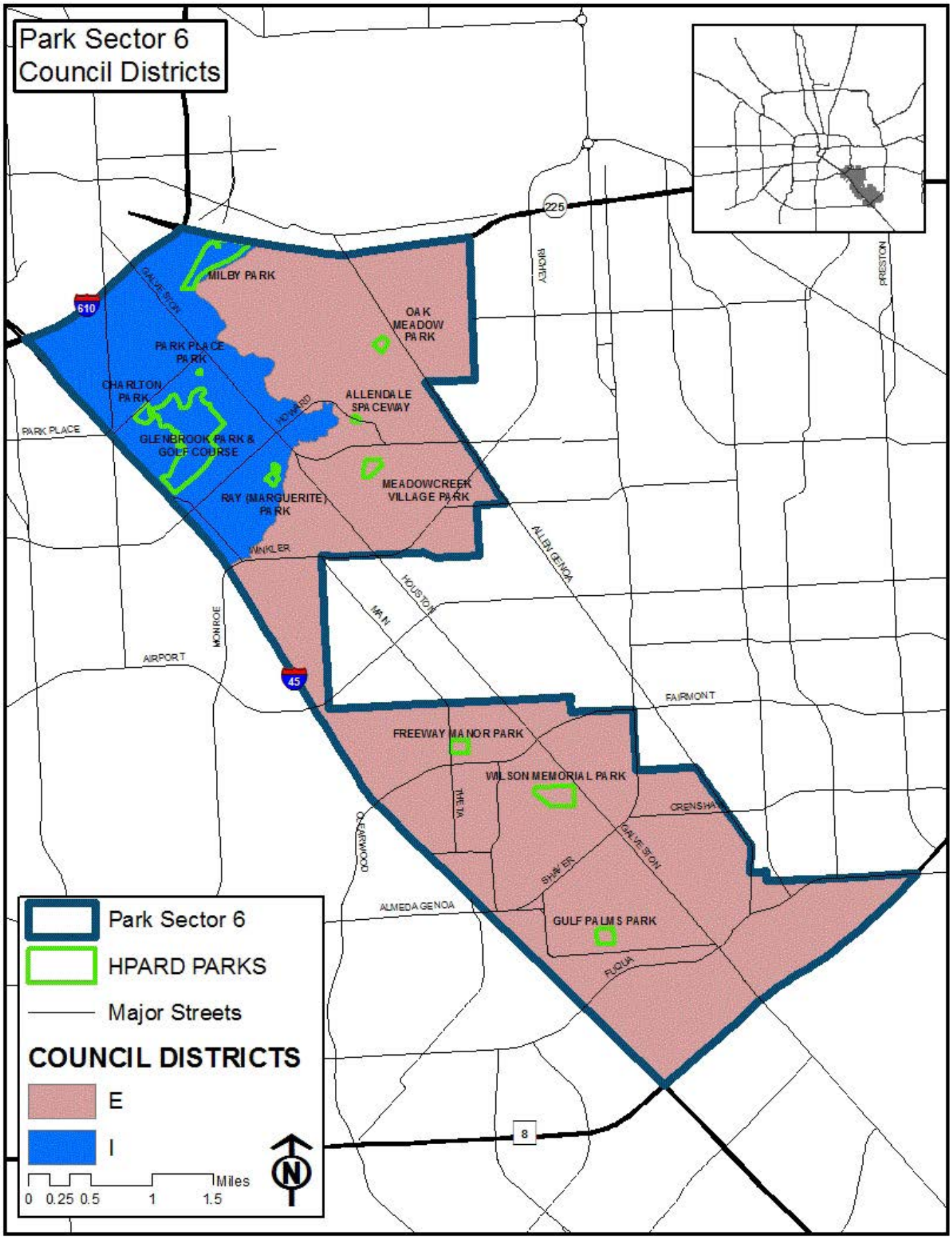


FIGURE 1: PARK SECTOR 6 COUNCIL DISTRICTS

Park Sector 6 Tax Increment Reinvestment Zone (TIRZs) and Management Districts

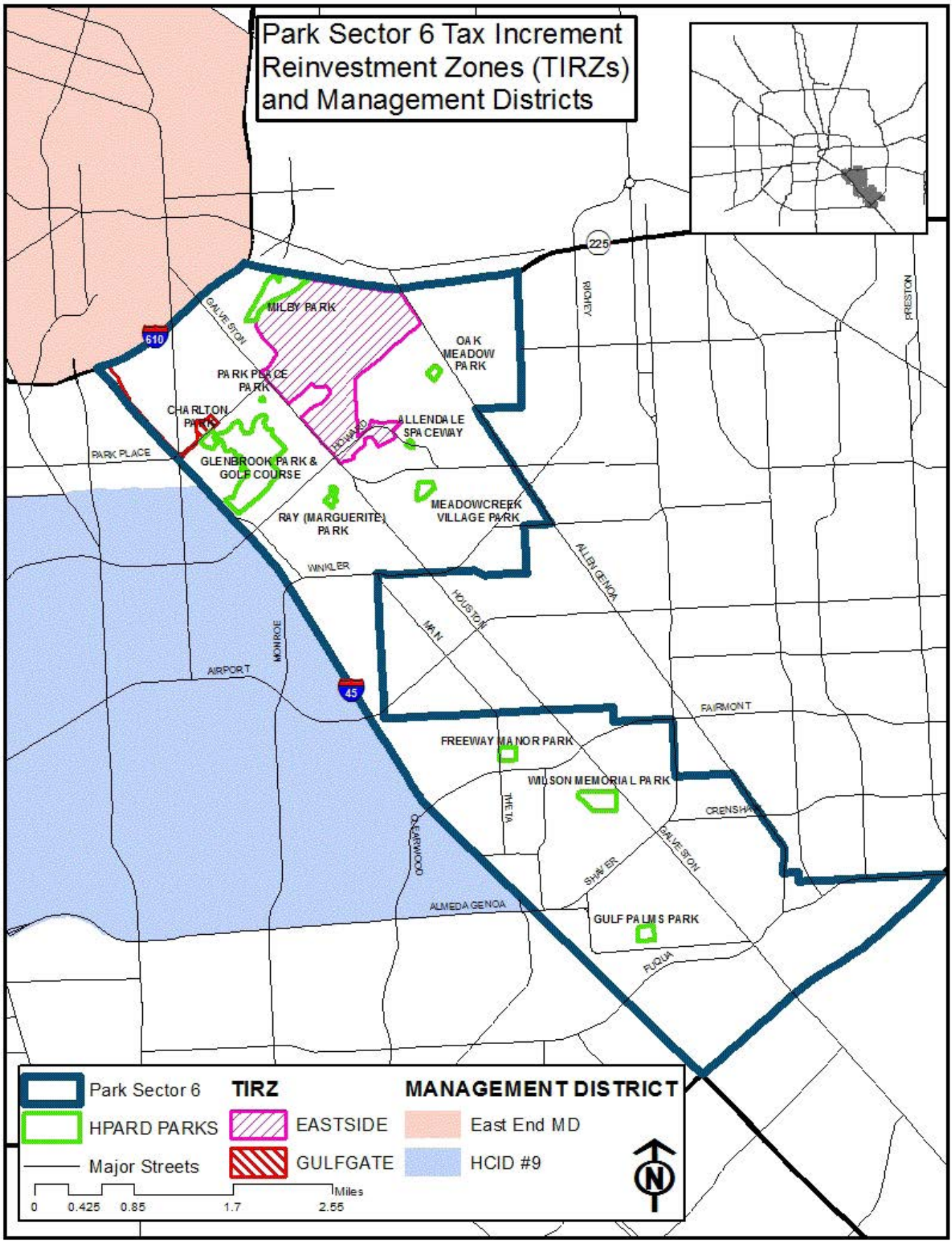


FIGURE 2: PARK SECTOR 6 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 6 Super neighborhoods

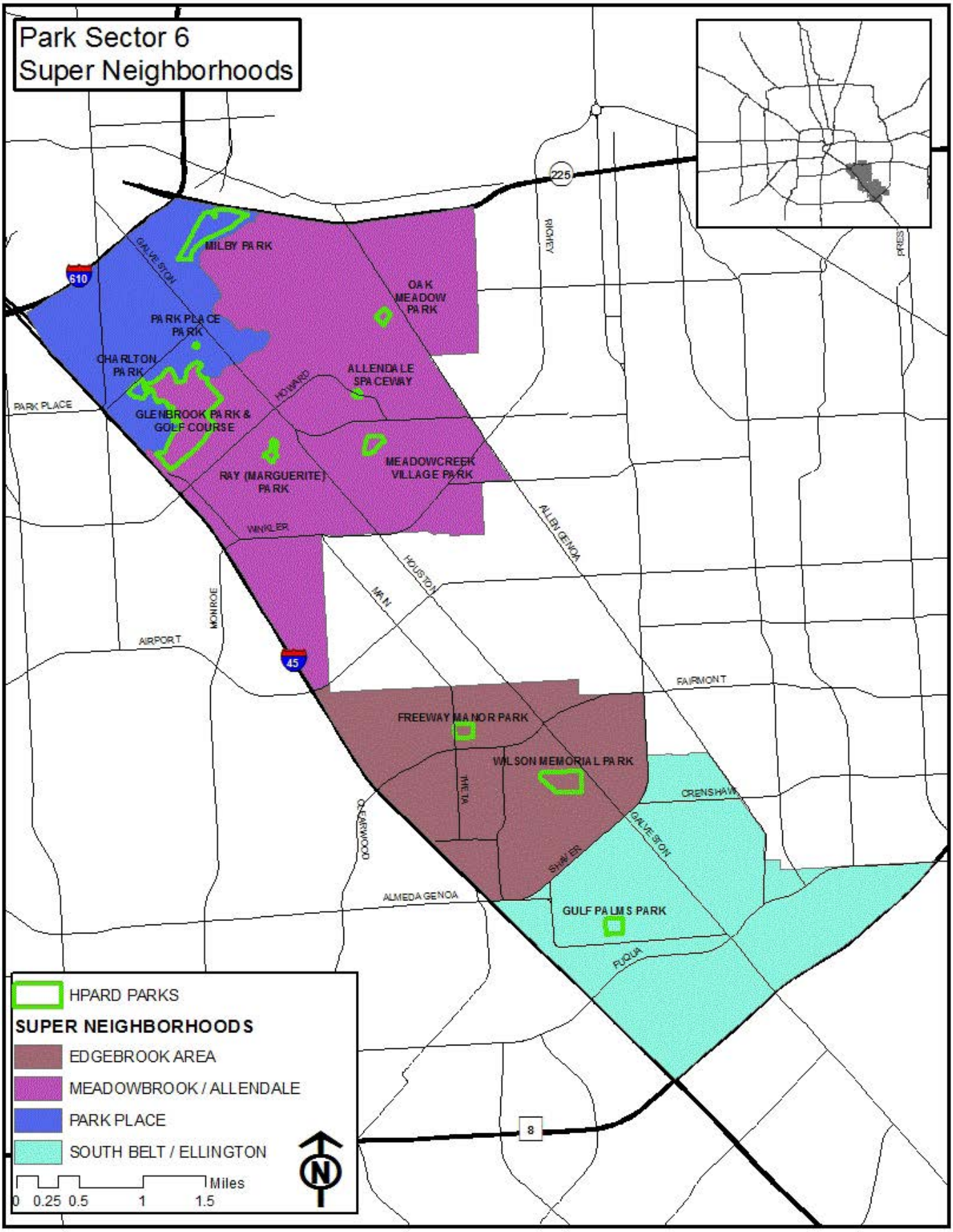


FIGURE 3: PARK SECTOR 6 SUPER NEIGHBORHOODS

Park Sector 6 Floodplain Areas

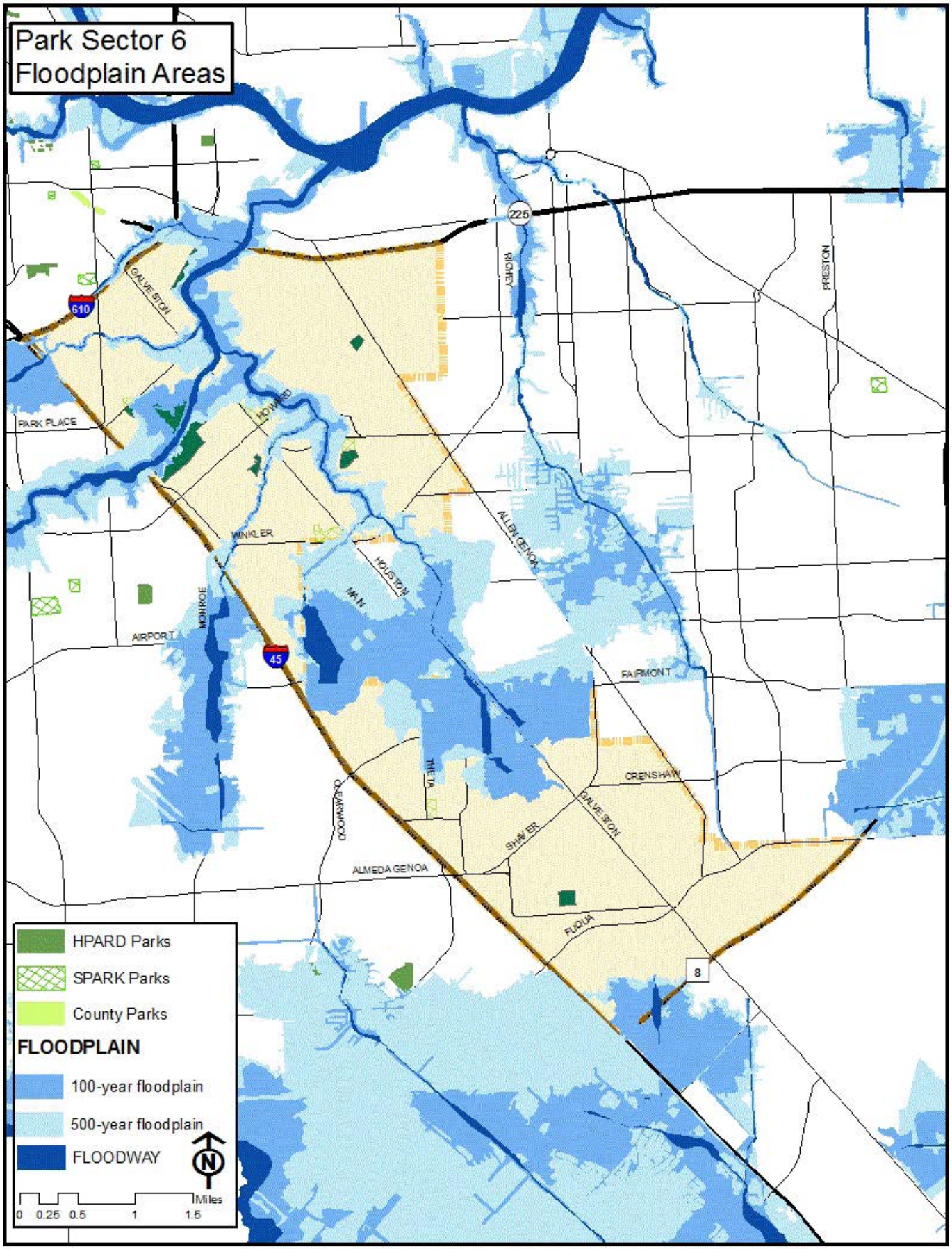


FIGURE 4: PARK SECTOR 6 FLOODPLAIN AREAS

PARK SECTOR 7

PARK SECTOR 7 SUMMARY

PARK SECTOR 7 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and data provided by the Trust for Public Land ParkScore™ Project), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Revitalize existing parks
2. Develop partnerships with the school system and other entities
3. Develop new park facilities
4. Develop Neighborhood connections to parks and trails
5. Acquire new parkland
6. Preserve environmentally sensitive areas

RECOMMENDATIONS

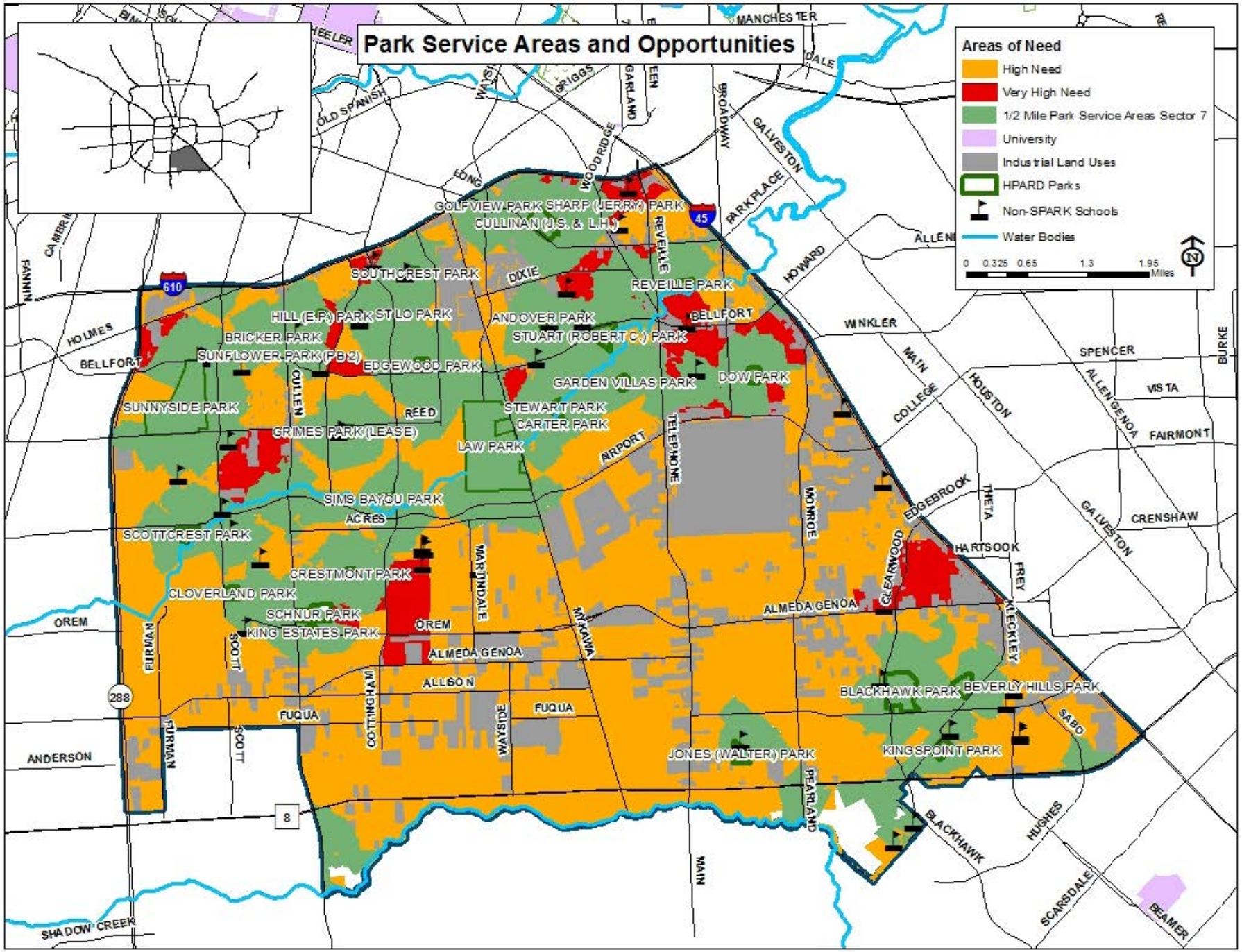
The parks in Park Sector 7 that have the highest need for redevelopment are listed from greatest need to least need: Andover Park, Golfview Park, Bricker Park, Cullinan JS and LH, Sims Bayou Park, and Jenkins (Margaret) Park (formerly Scottcrest Park).

In this Park Sector 45 acres of parkland are needed. Schools not participating in the SPARK School Park Program (Non-SPARK schools) should be explored as potential future partnerships for park space. Almost 63% of the population in this Park Sector has incomes considered to be low to moderate and pursuing Community Development Block Grants (CDBG) for park improvements should be a priority. In addition, since several non-SPARK schools are located in very high park need areas, CDBG funding could be considered in partnership with the SPARK Park program to add park space to the system and provide improvements at non-SPARK school locations. The areas of highest need are in the northwest and central portions of the Park Sector. As there is little redevelopment occurring in this sector, this Park Sector should be targeted for CIP and bond funds for future development and land acquisition. There is a utility corridor in the southern portion of the sector that almost connects Sims Bayou and Clear Creek, opportunities to develop a north-south trail should be explored.

This Park Sector is deficient in playgrounds, picnic shelters, trails, volleyball courts, dog parks, skate parks, community centers, swimming pools, outdoor spraygrounds, and softball and soccer fields. The trail system will provide access to the residents of this Park Sector to a total of 14 miles of trails along Sims Bayou and over 6 miles along Clear Creek.

In the 2014 survey, the top three priorities of residents in Park Sector 7 when asked what recreational needs existed in their Neighborhood were: hike, bike and walk trails, upgraded community centers, and playground areas. Other services and amenities that residents asked for in the write-in portion of the survey were: fitness and nutrition programming, swim lessons, dance, theater and arts programs, and community gardens. The Health of Houston survey revealed that 12.5% of the population received a diagnosis of diabetes by a professional (City of Houston level was 11.4%). Based on this health profile partnerships focused on recreational options and programming that promote healthy living should be explored.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Online Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector


Park Service Areas and Opportunities
Areas of Need
High Need
Very High Need
1/2 Mile Park Service Areas Sector 7
University
Industrial Land Uses
HPARD Parks
Non-SPARK Schools
Water Bodies
0 0.325 0.65 1.3 1.95 Miles
GOLFVIEW PARK
SHARP (JERRY) PARK
CULLINAN (J.S. & L.H.)
SOUTHCREST PARK
REVEILLE PARK
HILL (E.P.) PARK
STLO PARK
ANDOVER PARK
BELLFORT
BRICKER PARK
STUART (ROBERT C.) PARK
SUNFLOWER PARK (PB 2)
EDGEWOOD PARK
GARDEN VILLAS PARK
DOW PARK
SUNNYSIDE PARK
STEWART PARK
CARTER PARK
GRIMES PARK (LEASE)
LAW PARK
SIMS BAYOU PARK
SCOTTCREST PARK
CRESTMONT PARK
CLOVERLAND PARK
SCHNUR PARK
KING ESTATES PARK
OREM
ALMEDA GENOA
ALLISON
FUQUA
JONES (WALTER) PARK
KINGSPOINT PARK
BLACKHAWK PARK
BEVERLY HILLS PARK
HARTSOOK
CRENSHAW
FAIRMONT
SPENCER
VISTA
WINKLER
HOWARD
PARK PLACE
GALVESTON
BROADWAY
MANCHESTER
LONG
WOODRIDGE
GARLAND
GRIGGS
OLD SPANISH
HOLMES
BELLFORT
CULLEN
REED
AIRPORT
TELEPHONE
MONROE
EDGEBROOK
THETA
MAIN
COLLEGE
HOUSTON
ALLEN GENOA
BURKE
CLEARWOOD
FREY
KLEICKLEY
MARJINDALE
MYKAWA
SCOTT
FURMAN
COTTINGHAM
WAYSIDE
PEARLAND
SABO
HUGHES
SCARSDALE
BEAMER
ANDERSON
SHADOW CREEK
610
45
288
8

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Golfview Park	6201	Cherryhill	0.76	N/A
Pershing Park	5500	Pershing/St. Lo Road	0.40	N/A
Sharp (Jerry) Park	3234	Chaffin	0.50	N/A
	Total HPARD Pocket Park Acreage		**1.66**	
Neighborhood Parks				
Andover Park	6301	Nunn	4.85	N/A
Bricker Park	4548	Bricker	2.17	N/A
Carter Park	7000	Santa Fe	2.00	0.08
Cloverland Park	11800	Scott	12.04	0.25
Crestmont Park	5200	Selinsky Rd.	6.74	0.25
Dow Park	7942	Rockhill	14.04	0.58
Edgewood Park	5803	Belfort	10.97	0.50
Garden Villas Park	6720	South Haywood	11.55	0.49
Grimes Park (Lease)	5150	Reed Rd.	9.72	N/A
Hill (E.P.) Park	4800	Gloryland	7.32	0.39
King Estates Park	4801	East Orem	2.56	N/A
Kingspoint Park	9100	Kingspoint Road	10.00	N/A
Sims Bayou Park	9500	ML King Blvd	9.96	2.50
Southcrest Park	5842	Southmund	6.21	0.29
St. Lo Park	7335	St. Lo Rd.	1.20	0.18
Stewart Park	6700	Reed Road	4.71	0.30
Sunflower Park (PB 2)	5000	Sunflower Street	1.50	0.16
	Total HPARD Neighborhood Park Acreage		**117.54**	
Community Parks				
Beverly Hills Park	10201	Kingspoint	21.67	0.53
Blackhawk Park	9401	Fuqua	76.81	N/A
Cullinan JS and LH	6700	Long Dr.	44.00	1.06
Jenkins (Margaret) Park (formerly Scottcrest Park)	10700	Rosehaven	19.00	0.51
Jones (Walter) Park	8000	Coastway Lane	21.50	N/A
Reveille Park	7700	Oak Vista	20.04	0.32
Schnur Park	12227	Cullen Blvd.	39.00	0.50
Stuart (Robert C. Park)	7250	Bellfort	27.14	0.75
	Total HPARD Community Park Acreage		**269.16**	
Regional Parks				
Law Park	6200	Scarlet/6100 Vassar	313.57	0.41
Sunnyside Park	3502	Bellfort	206.01	0.48
	Total HPARD Regional Park Acreage		**519.58**	
	Total HPARD Park Acreage		**907.94**	
	Total HPARD Trail Length			**10.61**

EXISTING COMMUNITY CENTERS AND POOLS

Community Centers and Pool Facilities	Address	Zip Code	Agency Responsible
Bessie Swindle Community Center and Cloverland Park Pool	11800 Scott	77047	HPARD
Beverly Hills Community Center and Pool	10201 Kingspoint	77075	HPARD
Crestmont Community Center	5200 Selinksy Road	77048	HPARD
Edgewood Community Center	5803 Bellfort	77033	HPARD
Garden Villas Community Center	6720 South Haywood	77061	HPARD
Reveille Park Pool	7700 Oak Vista	77087	HPARD
Sunnyside Community Center and Pool	3502 Bellfort	77051	HPARD

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger).The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Approximately 41% of the area in this Park Sector is in need of parkland accessible within a ½ mile, as compared to the rest of the of the City of Houston (55%). Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains approximately 1,315 acres of parkland (Harris County, HPARD& other providers). Of the 34,300 acres in this Park Sector, 3% of this acreage is parkland.
- There are approximately 165,000 residents, 46% are Hispanic and 43% are African-American.
- An additional 45 acres of parkland are needed in Park Sector 7. This is based on the current population (2010 US Census) of the Park Sector and needs assessment done for Pocket, Neighborhood and Community parks (number of acres per 1,000 people).
- Trust for Public Land ParkScore™ shows high need in the northwest and central portions of the Park Sector.
- H-GAC population projections estimate that this area will add over 30,000 residents by 2040. To meet the estimated 2040 population an additional 33 acres of parkland will be needed.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	41	16	33	21	22	3	2	2	6	4	2	24	5	16
2015 Existing	34	15	29*	21	22	1	0	0	6	4	1	24	3	14
2015 Needed	7	1	4	-	-	2	2	2	-	-	1	-	2	2
2040 Needed	8	4	6	-	-	1	-	-	-	-	-	-	2	4

* This number includes miles of trails currently planned along Sims Bayou (7 miles) and Clear Creek Bayou (6 miles) under the Bayou Greenways (BG2020 Initiative).

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.

2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.

3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.

4. Annual Operation & Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$26,000,000	45 Acres- $3,000,000	$36,000,000	$10,000,000
2040	$13,000,000	33 Acres- $2,000,000	$84,000,000	$2,000,000
TOTAL 2040	$39,000,000	78 Acres- $5,000,000	$120,000,000	$12,000,000

PARK SECTOR PROFILE 7

LOCATION AND POLITICAL BOUNDARIES

Park Sector 7 is located east of SH 288, west of I-45, north of Beltway 8, and south of IH 610.
Park Sector Size: 34,299.6 acres or 53.6 square miles
Population: 164,466 people, Density: 2,764 persons/sq. mi.
Political Boundaries within Park Sector 7:

- Council Districts: D and I
- Super neighborhoods contained in this Park Sector: Sunnyside, South Acres/ Crestmont Park, Southpark, Minnetex, Greater Hobby Area, Golfcrest/ Bellfort/ Reveille, South Belt/ Ellington
- TIRZ: None
- Management Districts: Five Corners Improvement District, Harris County Improvement District 10-A, and Harris County Improvement District 9

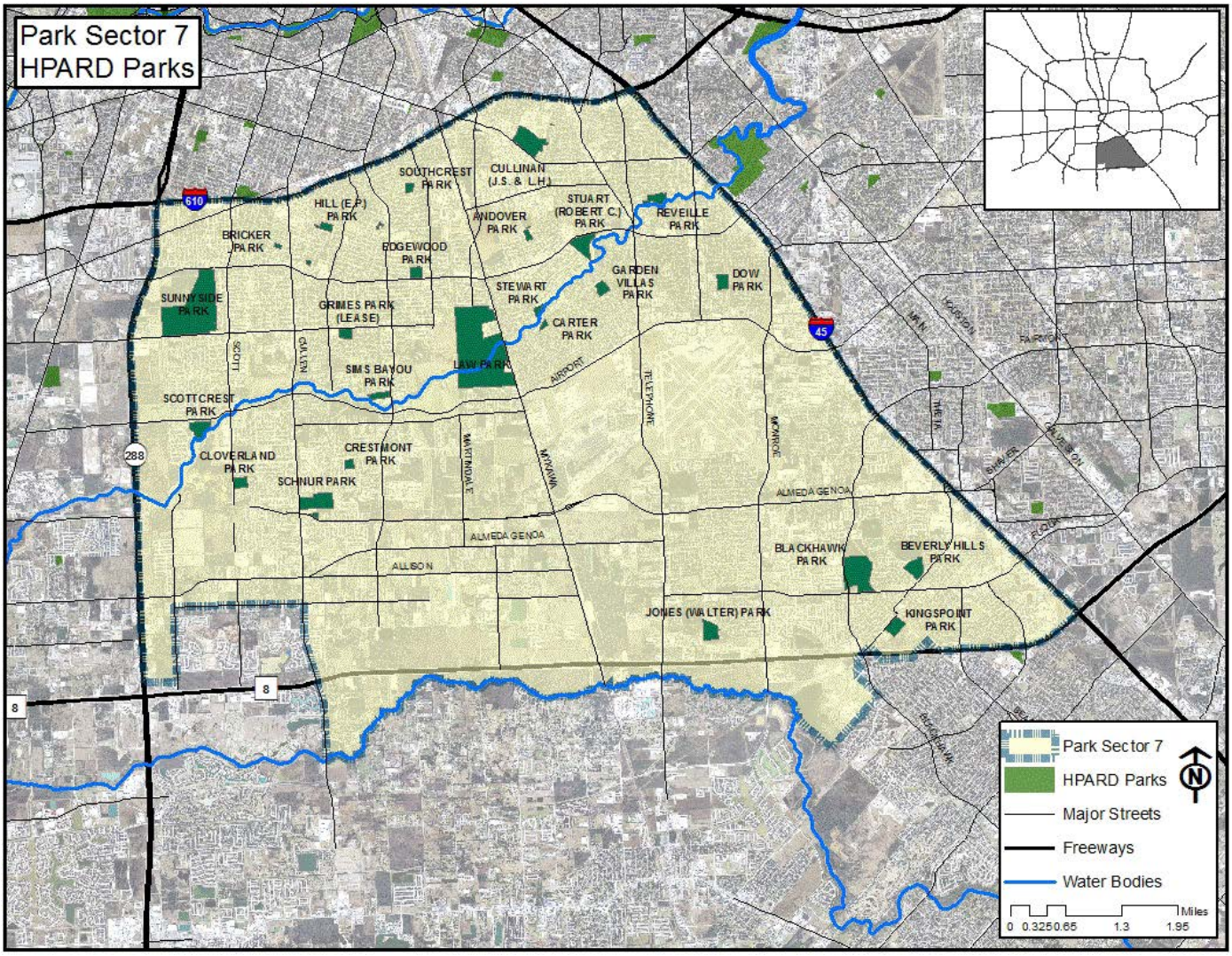


FIGURE 1. PARK SECTOR 7 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 7 Population	Park Sector 7 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**164,466**	-	2,119,831	-
Hispanic or Latino	75,741	46.1%	919,668	43.8%
Non-Hispanic White	11,600	7.1%	537,901	25.6%
Non-Hispanic Black	70,607	42.9%	485,956	23.1%
Non-Hispanic American-Indian	211	0.1%	126,098	6.1%
Non-Hispanic Asian	5,014	3.0%		
Non-Hispanic Hawaiian or Pacific Islander	37	0.0%		
Non-Hispanic Some Other Race	1,256	0.8%	26,828	1.3%

TABLE 1. PARK SECTOR 7 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains about 7.7% of the population of Houston; the majority (46.1%) of the residents are Hispanic Latino, followed by Non-Hispanic Blacks (42.9%) and Non-Hispanic Whites (7.1%). The population distribution within the Park Sector is heavily skewed towards the areas closest to freeways. The least densely populated areas are in the central part of the Park Sector, closest to the industrial and undeveloped parcels in this Park Sector.

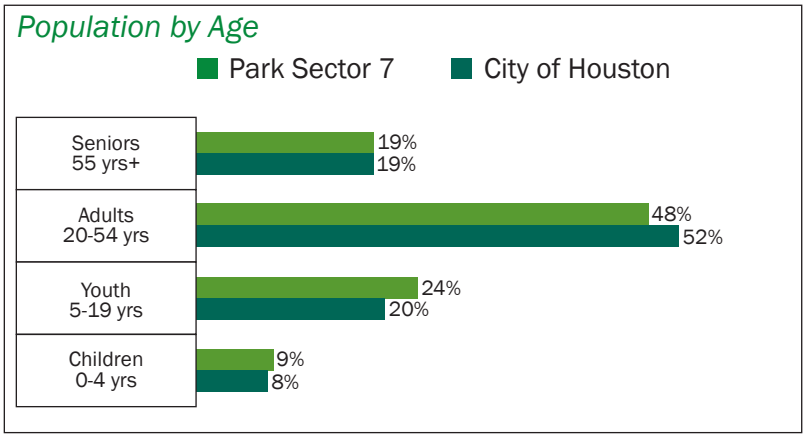


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 7 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that the percent of population under 18 is higher (30.0%) than that of the rest of the city (26.6%). Further breakdown of the age groups reveals that the percent of children 5-19 years old is higher (23.9%) than for the rest of the city (20.0%). The amount of adults 20-54 years old is slightly lower (48%) than the City of Houston overall (52%). These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 7 Population	PS 7 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	14,741	9%	9%	166,066	8%	8%
Youth	5-9 yrs	13,428	8%	24%	148,843	7%	21%
	10-14 yrs	12,981	8%		24%	7%	
	15-19 yrs	13,048	8%			7%	
Adults	20-34 yrs	37,513	23%	48%	539,348	26%	52%
	35-44 yrs	21,132	13%		48%	14%	
	45-54 yrs	20,343	12%			13%	
Senior	55-64 yrs	15,434	9%	19%	204,852	10%	19%
	65 yrs +	16,635	10%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 7 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 60,551 housing units in this Park Sector. The percent of vacant housing in Park Sector 7 (11%) is slightly lower in this Park Sector than as compared to the vacancy rates for the entire city (12%). Home ownership rate for this Park Sector is higher (49%), which is higher than that of the City of Houston (40%).

Income

The median household income for this Park Sector is $34,711, which is lower than the median household income of $48,322 for the rest of the city. Sixty-seven percent (67%) of households in this Park Sector have an income below the Houston median household income. According to income data over 62% of the population is in the low to moderate income category, making this are eligible for Community Development Block Grant (CDBG) funding.

Educational Attainment

Within Park Sector 7 the percent (33%) of individuals 25+ years of age with a high school degree is significantly higher than the relative percent for the entire City of Houston (23%). However, the percent of the population 25 years and older without a high school diploma (34%) is also noticeably higher than the percentage for the rest of the city (26%).

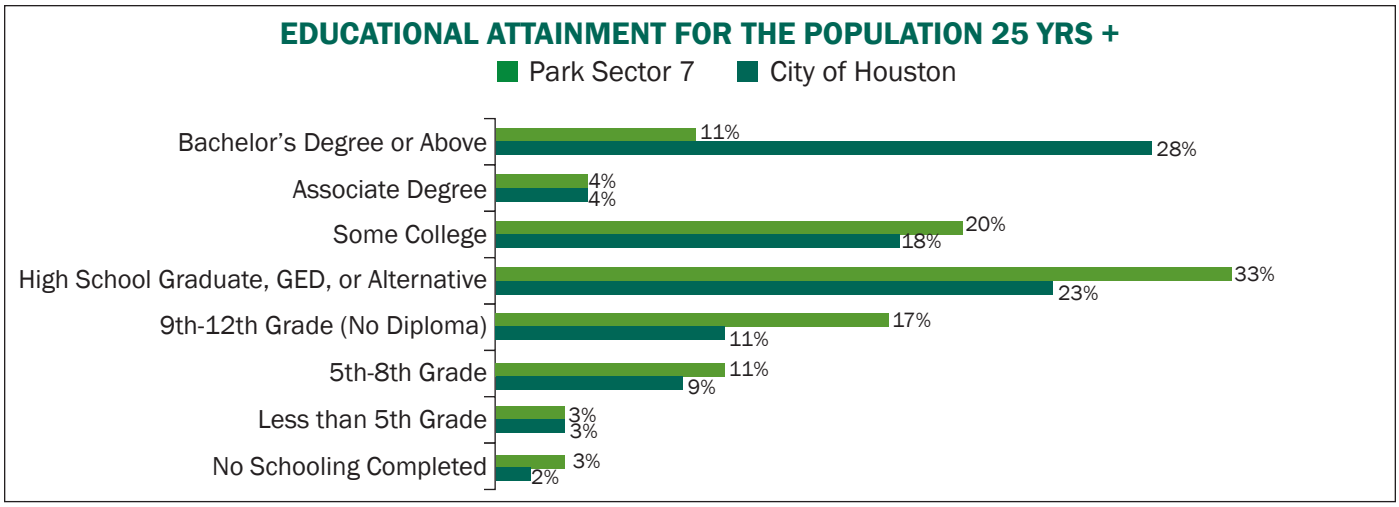


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 33.6% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that 12.5% of the adult population received a diagnosis of diabetes by a professional, which is slightly above the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that about 27% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is lower than that of the entire city (32%). The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%. Finally, the survey shows that almost a third of the population (31%) does not engage in moderate physical activity at all, which is higher than the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

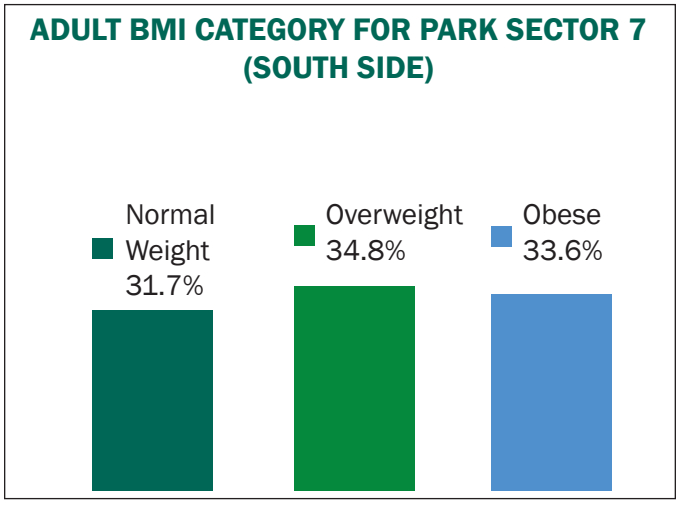


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	31.00
1	6.80
2	10.80
3	18.40
4	6.00
5	11.80
6	3.80
7	11.30

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	40,022	74.6%	8,694	31.7%
Multi-Family	1,211	2.3%	760	2.8%
Commercial	1,211	2.3%	1,338	4.9%
Office	99	0.2%	145	0.5%
Industrial	1,425	2.7%	3,017	11%
Public & Institutional	303	0.6%	1,460	5.3%
Transportation	142	0.3%	1,800	6.6%
Parks & Open Space	228	0.4%	393	1.4%
Undeveloped	8,776	16.3%	7,770	28.3%
Agriculture Production	266	0.5%	2,052	7.5%
TOTAL	53,683	-	27,429	-

TABLE 4. LAND USE BY DESCRIPTION (2012 HCAD)

Park Sector 7, while having significant acreage of single-family parcels (31.7%), HCAD data shows that almost one-third (28.3%) of the acreage is undeveloped land. The third largest land use for this Park Sector is industrial (11%). Hobby Airport is located east of Mykawa and south of Airport; this area has undeveloped parcels which will be part of the future airport expansion. Aerial imagery for 2010 confirms that the large properties identified as undeveloped are correctly depicted. Nevertheless, additional research will have to be done to see if any general plans for development have been submitted to the Planning and Development Department of the City of Houston prior to counting on this land for possible acquisition. There is potential for land acquisition opportunities to expand parkland in this Park Sector.

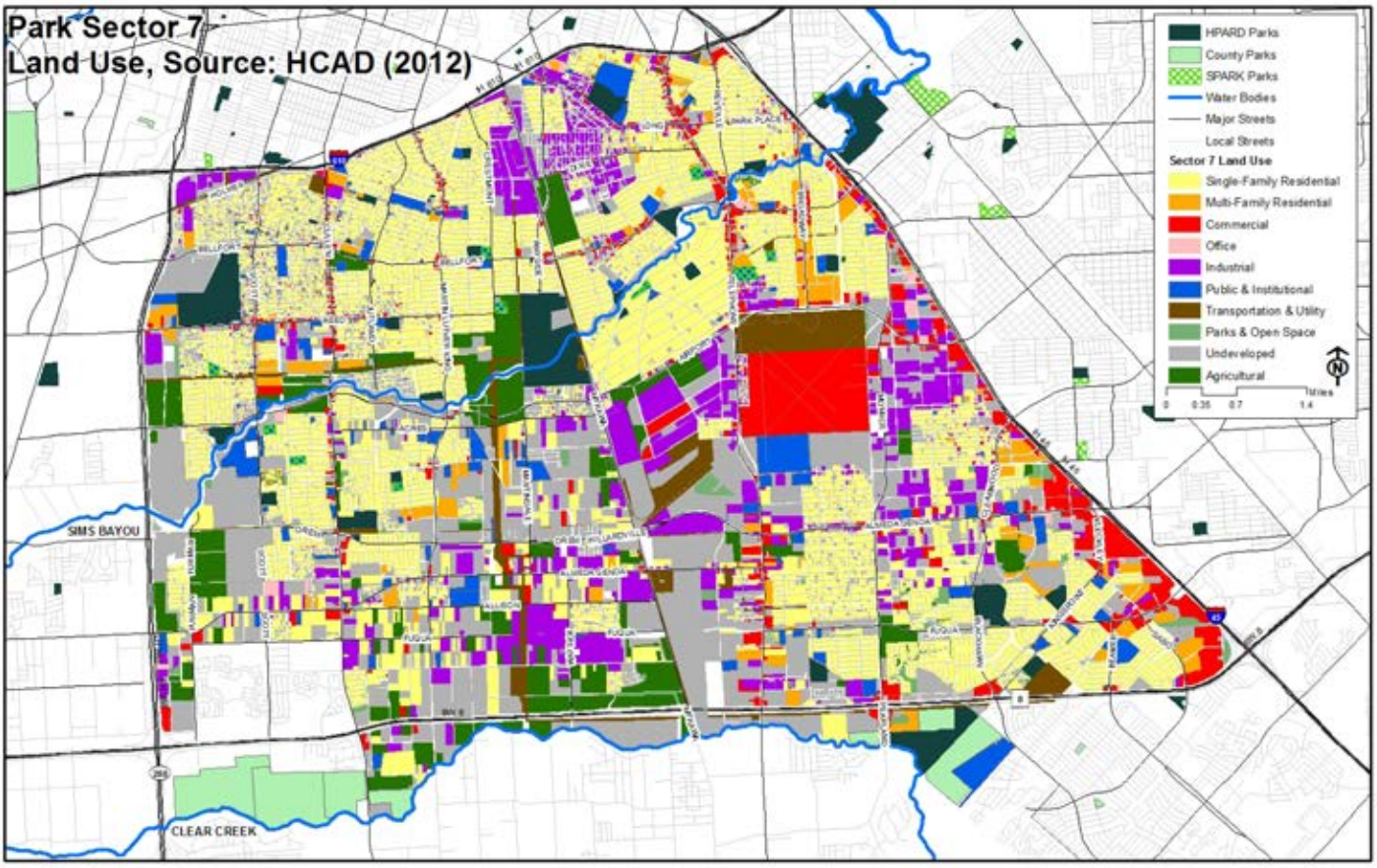


FIGURE 5. PARK SECTOR 7 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

HPARD PARKS AND TRAILS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Golfview Park	6201	Cherryhill	0.76	N/A
Pershing Park	5500	Pershing/St. Lo Road	0.40	N/A
Sharp (Jerry) Park	3234	Chaffin	0.50	N/A
Total HPARD Pocket Park Acreage			**1.66**	
Neighborhood Parks				
Andover Park	6301	Nunn	4.85	N/A
Bricker Park	4548	Bricker	2.17	N/A
Carter Park	7000	Santa Fe	2.00	0.08
Cloverland Park	11800	Scott	12.04	0.25
Crestmont Park	5200	Selinsky Rd.	6.74	0.25
Dow Park	7942	Rockhill	14.04	0.58
Edgewood Park	5803	Belfort	10.97	0.5
Garden Villas Park	6720	South Haywood	11.55	0.49
Grimes Park (Lease)	5150	Reed Rd.	9.72	N/A
Hill (E.P.) Park	4800	Gloryland	7.32	0.39
King Estates Park	4801	East Orem	2.56	N/A
Kingspoint Park	9100	Kingspoint Road	10.00	N/A
Sims Bayou Park	9500	ML King Blvd	9.96	2.50
Southcrest Park	5842	Southmund	6.21	0.29
St. Lo Park	7335	St. Lo Rd.	1.20	0.18
Stewart Park	6700	Reed Road	4.71	0.3
Sunflower Park (PB 2)	5000	Sunflower Street	1.50	0.16
Total HPARD Neighborhood Park Acreage			**117.54**	
Community Parks				
Beverly Hills Park	10201	Kingspoint	21.67	0.53
Blackhawk Park	9401	Fuqua	76.81	N/A
Cullinan JS and LH	6700	Long Dr.	44.00	1.06
Jenkins (Margaret) Park (formerly Scottcrest Park)	10700	Rosehaven	19.00	0.51
Jones (Walter) Park	8000	Coastway Lane	21.50	N/A
Reveille Park	7700	Oak Vista	20.04	0.32
Schnur Park	12227	Cullen Blvd.	39.00	0.5
Stuart (Robert C. Park)	7250	Bellfort	27.14	0.75
Total HPARD Community Park Acreage			**269.16**	
Regional Parks				
Law Park	6200	Scarlet/6100 Vassar	313.57	0.41
Sunnyside Park	3502	Bellfort	206.01	0.48
Total HPARD Regional Park Acreage			**519.58**	
	Total HPARD Park Acreage		**907.94**	
	Total HPARD Trail Length			**10.61**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 7

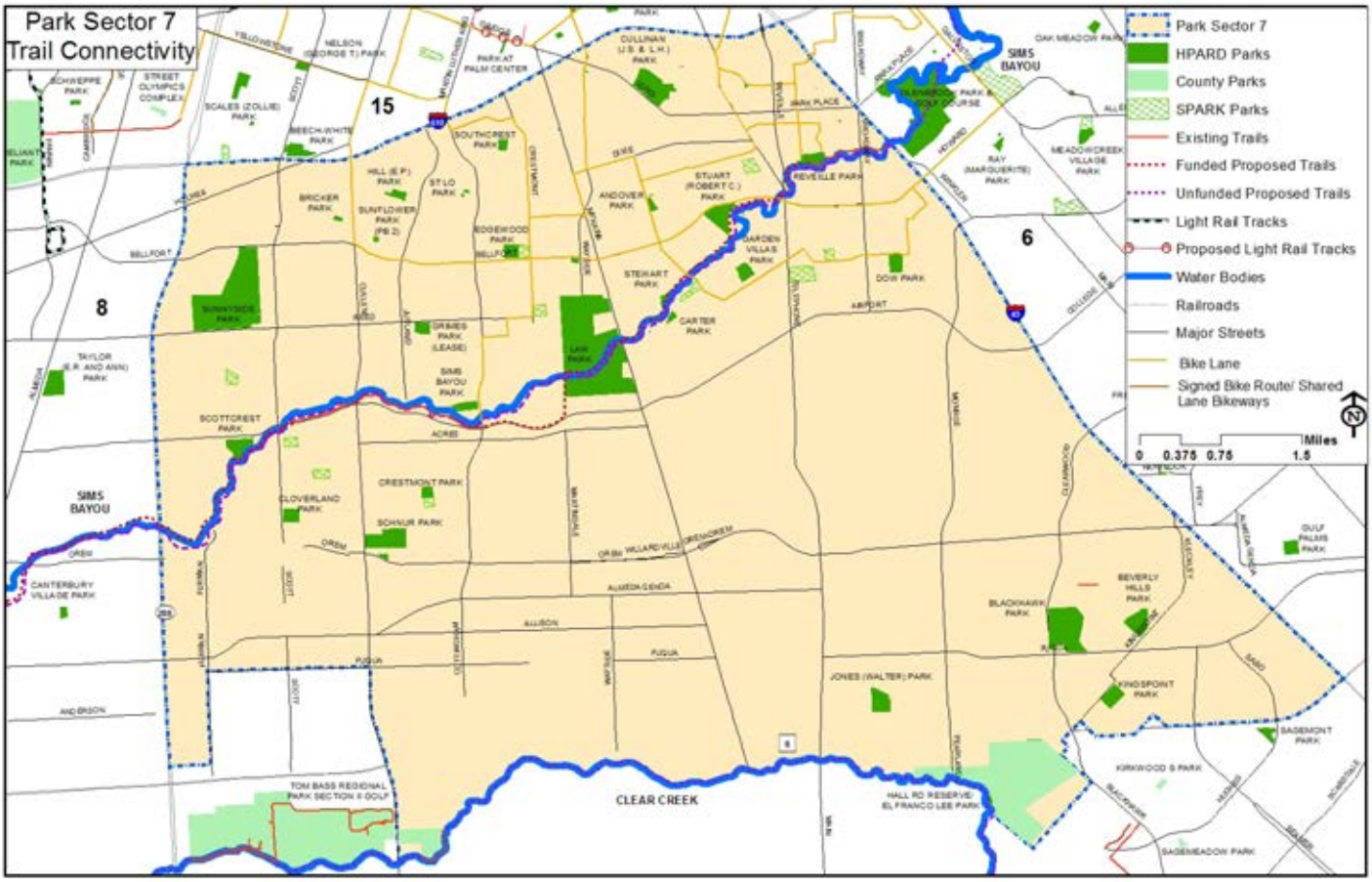


FIGURE 6. PARK SECTOR 7 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

The Houston Parks and Recreation Department operates 30 parks in the area accounting for 908 acres of parkland. Harris County operates 3 parks in the area accounting for 406.71 acres of parkland. Figure 5 (see below) shows the existing shared bike lanes/ shared routes, trails, and proposed extensions of the Sims Bayou trail from Reveille Park to across the bayou from Sims Bayou Park in accordance with the Bayou Greenway Initiative (BG2020). Currently, HPARD maintains 10.61 miles of trails, Harris County maintains 3.92 miles of trails, HISD maintains 0.85 miles (track) inside 10 SPARK Parks, and there is a 0.8 mile segment form I-45 to Reveille Park maintained by other entities in the Park Sector. Collectively, there is a total of 16 miles of trails within this Park Sector. According to the LOS analysis in Table 7, there is a need for an additional 17 miles of trails to meet current population standards for Park Sector 7. Trails will be built along Sims Bayou on a partnership between Houston Parks Board and the USACE to connect to the existing 0.8 mile tract of the trail to create a 14-mile trail system, under Bayou Greenway Initiative 7 miles of this would be inside Park Sector 7. In addition, the trails along Clear Creek that are planned through Bayou Greenway Initiative will add 6 miles to the existing 0.68 miles in Christia V. Adair Park. North-South connectors between Sims and Clear Lake Bayous should be considered perhaps along utility corridors or through adequate facilities for bicyclists and pedestrians on existing or proposed to be widened or improved streets.

County Parks and Trails

County Park				
Facility Name	**Address**	**Street**	**Total Acres**	**Trail Length**
Christia V. Adair Park	15107	Cullen Boulevard	59.32	0.64
El Franco Lee Park	9400	Hall Road	345.59	0.28
Sims Bayou Hike & Bike Trail 2			1.80	3.00
		Total HC Park Acreage	**406.71**	
		Total HC Trail Length		**3.92**

TABLE 6. TRAILS INTERNAL TO COUNTY PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 7

SPARK Parks

There are 8 Elementary Schools and 2 Middle Schools participating in the SPARK Program providing access to park space and a variety of amenities to the public.

SPARK Parks				
Facility Name	**Address**	**Street**	**Total Acres***	**Amenities**
Alcott Elementary School	5859	Bellfort St	7.26	Playground
Codwell Elementary School	5650	Selinsky Rd	4.83	Playground
Cornelius Elementary School	7475	Westover St	9.48	Playground, 0.17 mi Trail
Garden Villas Elementary School	7185	Santa Fe Dr	7.55	Playground
Lewis Elementary School	6745	Tipperary Ln	5.52	Playground, Soccer field
Mading Elementary School	8511	Crestmont St	7.80	Playground, swing set
Ortiz Middle School	6767	Telephone Rd	20.92	0.26 mi Trail, Basketball Court, Soccer Field, Tennis Courts
Reynolds Elementary School	9601	Rosehaven Dr	7.28	Playground
Rhoads Elementary School	4103	Brisbane St	7.38	Playground, 0.19 mi Trail
Woodson Middle School	10720	Southview St	6.59	0.23 mi Trail, Soccer Field
Total Acres*			**84.61**	

TABLE 7. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 7 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

Open and Green Space

To determine the level of service. The 2007 Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by The Trust for Public Land ParkScore™ Project.

The table below shows the level of service (LOS) based on the 2007 HPARD Master Plan recommended standards of a number of acres per 1,000 people using the 2010 Census Population. If we include Harris County park acreage when calculating the LOS, then an additional 45.1 acres of Neighborhood Parks are needed in Park Sector 7. This Park Sector has sufficient acreage in Pocket Parks and Community Parks, based upon the LOS standards below. The regional park acreage is shown for this Park Sector; however, the level of service is not calculated since Regional Parks generally serve the entire city. The analysis for level of service and needs is shown on the table below.

Park Type	HPARD Park Number	HC Park Number	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
									Population		164,466
Pocket Park (<1 acre)	3	0	1.7	0	0	1.7	0.005 ac/ 1,000 people	0.01	0.01	-0.84	-0.84
Neighborhood Park (1-15 acres)	17	1	117.5	2	0	119.3	1 ac/1,000 people	0.71	0.73	46.93	45.13
Community Park (16-150 acres)	8	1	269.2	59.3	0	328.5	1.5 ac/1,000 people	1.64	2.00	-22.46	-81.78
Regional Parks (151+ acres)	2	1	519.6	345.6	0	865.2	8.0 ac/1,000 people				
TOTAL	30	3	907.9	406.7	0	1,314.65				46.93	45.13

TABLE 8. HPARD LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Another way to measure the level of service provided by parks is by looking at a "walkable" distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (Trust for Public Land (TPL) ParkScore™ Project mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project. The areas in green on the map below represent the area within ½ mile of existing parks not blocked by freeways or major roads. Roughly 41% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector.

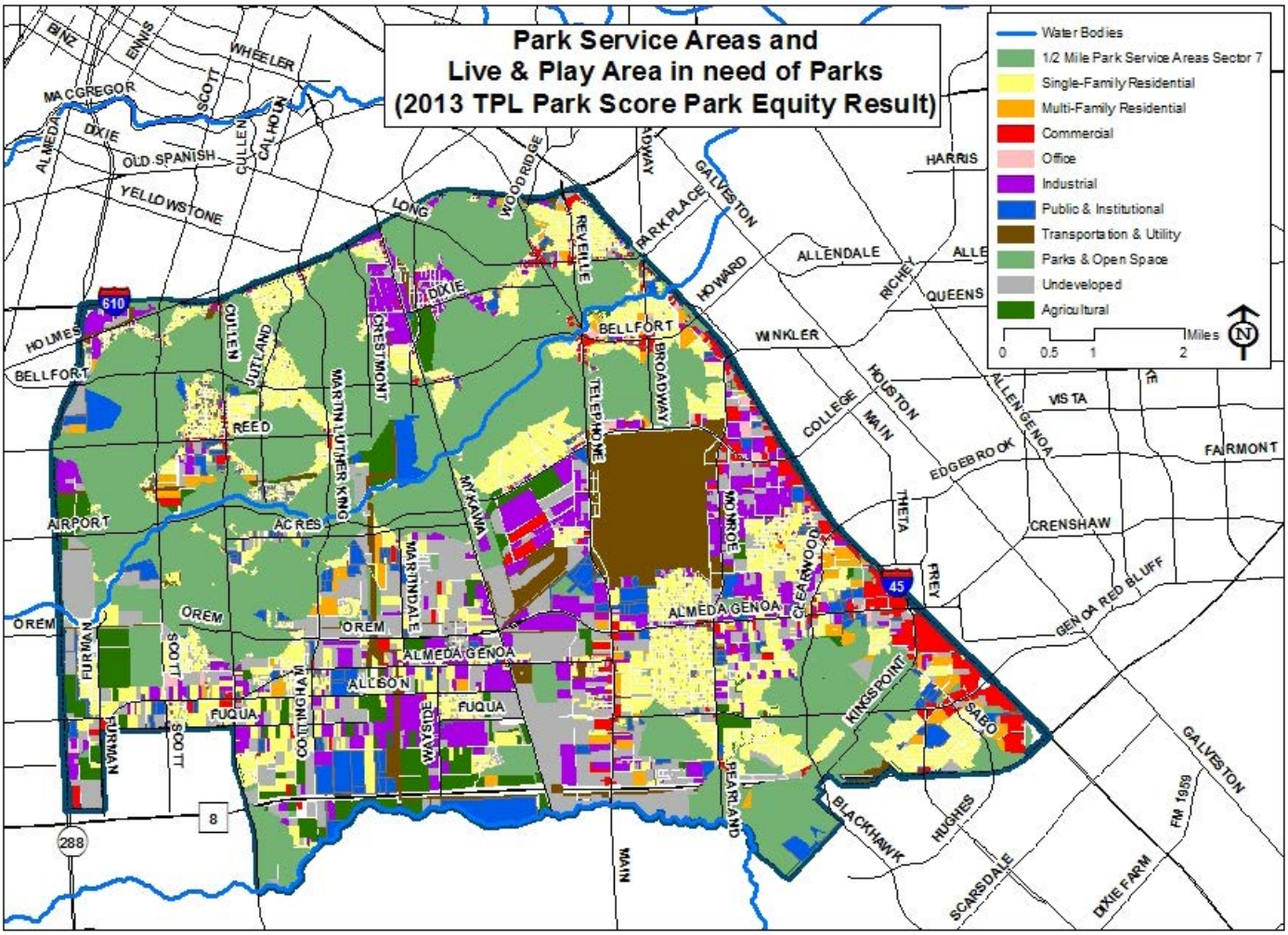


FIGURE 7. PARK SECTOR 7 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

AMENITIES AND SERVICES

The following map shows some of the community services available in this Park Sector: community centers, a Boys and Girls Club, libraries, and transit centers. There are five HPARD community centers located in this Park Sector: Bessie Swindle, Beverly Hills, Crestmont, Edgewood, Garden Villas, and Sunnyside Community Centers.

The Sunnyside Multi-Service Center is located in this Park Sector. It provides Women, Infant, Children (WIC) nutrition services, Harris County juvenile probation services, a YWCA seniors program that includes activities and free lunch, Houston Community College (HCC) programs, and a 'Kids Village' program that offers case management and social service referral for families with children aged 0-16 years. The Sunnyside Health Center is located next door to the multi-Service center and offers family planning, pregnancy testing, STD and TB testing, and immunizations for children. The YWCA Kingspoint Senior Center in the southeastern corner of the Park Sector provides group and home delivered meals. Transportation, exercise classes, health screenings, grocery and medical trips are also available through this Senior Center. This map shows a gap in services immediately south of Hobby Airport and north of Fuqua where there is a concentration of single-family residential homes. The libraries in this Park Sector provide computer access, community meeting space, and educational programs.

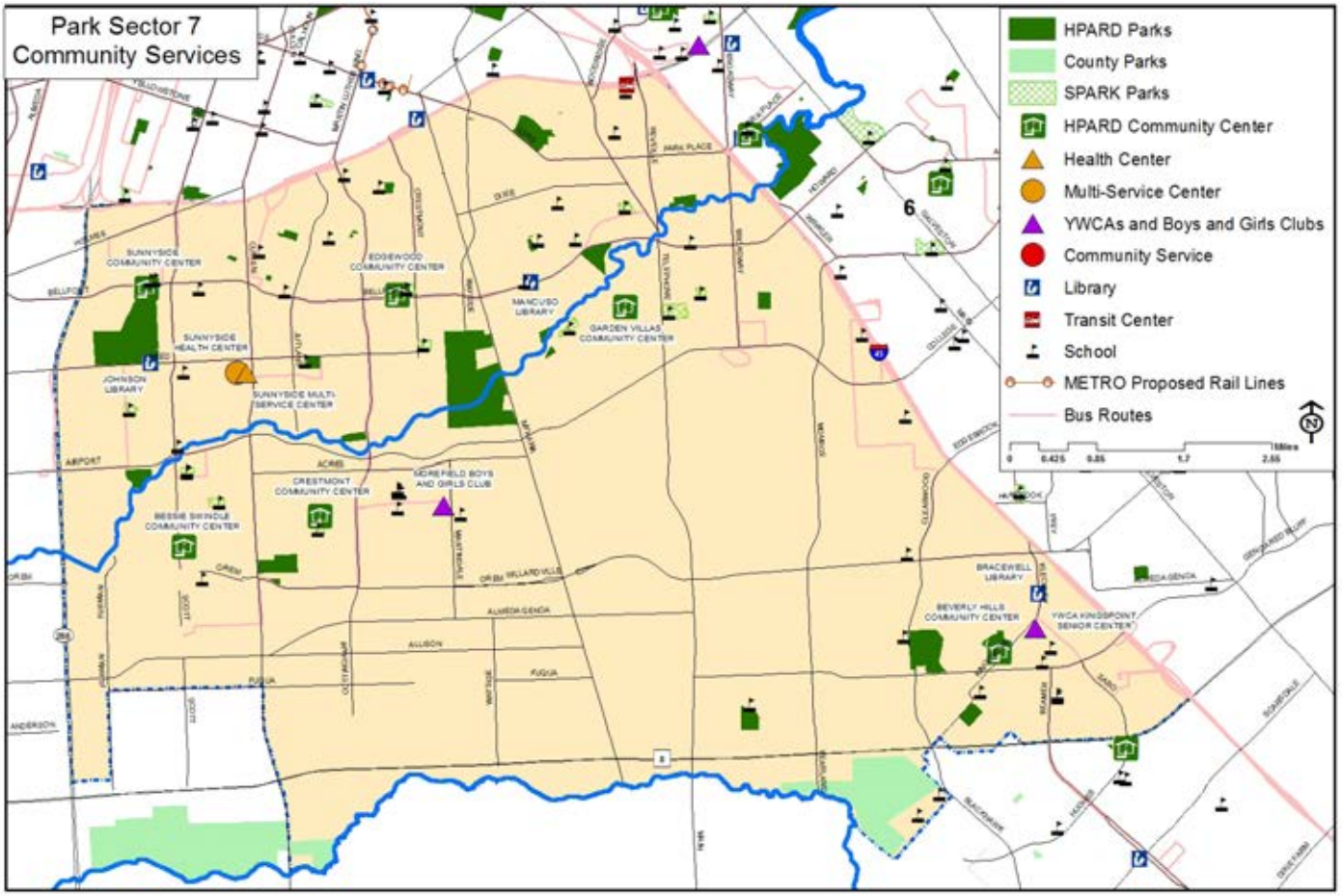


FIGURE 8. PARK SECTOR 7 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities - Level of Service

The 2007 HPARD standards by amenity have been applied to the amenities in Park Sector 7. The first column after the recommended HPARD standards indicates the level of service (LOS) accounting for HPARD facilities only, the total inventory standard accounts for facilities from all providers. The standard for each amenity is then compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these recommended HPARD standards, Harris County and other providers are meeting the needs of the residents for outdoor basketball courts, tennis courts, community centers swimming pools, and baseball fields. This Park Sector is deficient in playgrounds (7), picnic shelters (1), trails (17 miles), volleyball courts (2), dog parks (2), skate parks (2), outdoor spraygrounds (1), softball fields (2), and soccer fields (2).

	HPARD	Harris County	Other Providers	Total	Recommended HPARD Standard		Current HPARD Level of Service		Current Total Inventory Level of Service		HPARD NEEDS Over/ Under Service	Total Inventory NEEDS Over/ Under Standard
						Population		164,466				
Playgrounds	23	3	8	34	1	4,000	1	7,151	1	4,837	18	7
Picnic Shelters	11	4	0	15	1	10,000	1	14,951	1	10,964	5	1
Trails	10.6	3.9	1.9	16	0.2	1,000	0.06	1,000	0.10	1,000	22	17
Outdoor Basketball Courts	20	0	1	21	1	12,000	1	8,223	1	7,832	-6	-7
Tennis	16	2	4	22	1	10,000	1	10,279	1	7,476	0	-6
Volleyball	1	0	0	1	1	50,000	1	164,466	1	164,466	2	2
Dog Parks	0	0	0	0	1	100,000	0	164,466	0	164,466	2	2
Skate Parks	0	0	0	0	1	100,000	0	164,466	0	164,466	2	2
Community Centers	6	0	0	6	1	30,000	1	27,411	1	27,411	-1	-1
Swimming Pools	4	0	0	4	1	50,000	1	41,117	1	41,117	-1	-1
Outdoor Spraygrounds	1	0	0	1	1	100,000	1	164,466	1	164,466	1	1
Baseball (Lit & Unlit)	13	10	1	24	1 field	30,000	1	12,651	1	6,853	-8	-19
Softball (Lit & Unlit)	3	0	0	3	1 field	30,000	1	54,822	1	293,586	2	2
Soccer (Lit & Unlit)	7	4	3	14	1 field	10,000	1	23,495	1	11,748	9	2

TABLE 9. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 7
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- Dow Park's basketball pavilion roof, purlins, gutters and downspouts, goals, lights, benches and a portion of the existing sidewalk and trail were replaced in 2013. The column bases were repaired and the structure painted. The electrical service panel was upgraded and a new enclosure installed. The disturbed areas around the pavilion were graded and sodded.

- Sunnyside Park has a new trail that was completed in September 2013 that runs along the eastern section of the park and connects to the Johnson Neighborhood Library. In partnership with the Houston Astros MLB team, three baseball fields have been renovated to competitive league standards, which includes: field grading, new sod, irrigation, dugout repair, and new fences.

SUPPLEMENTAL MAPS:

Park Sector 7 Council Districts

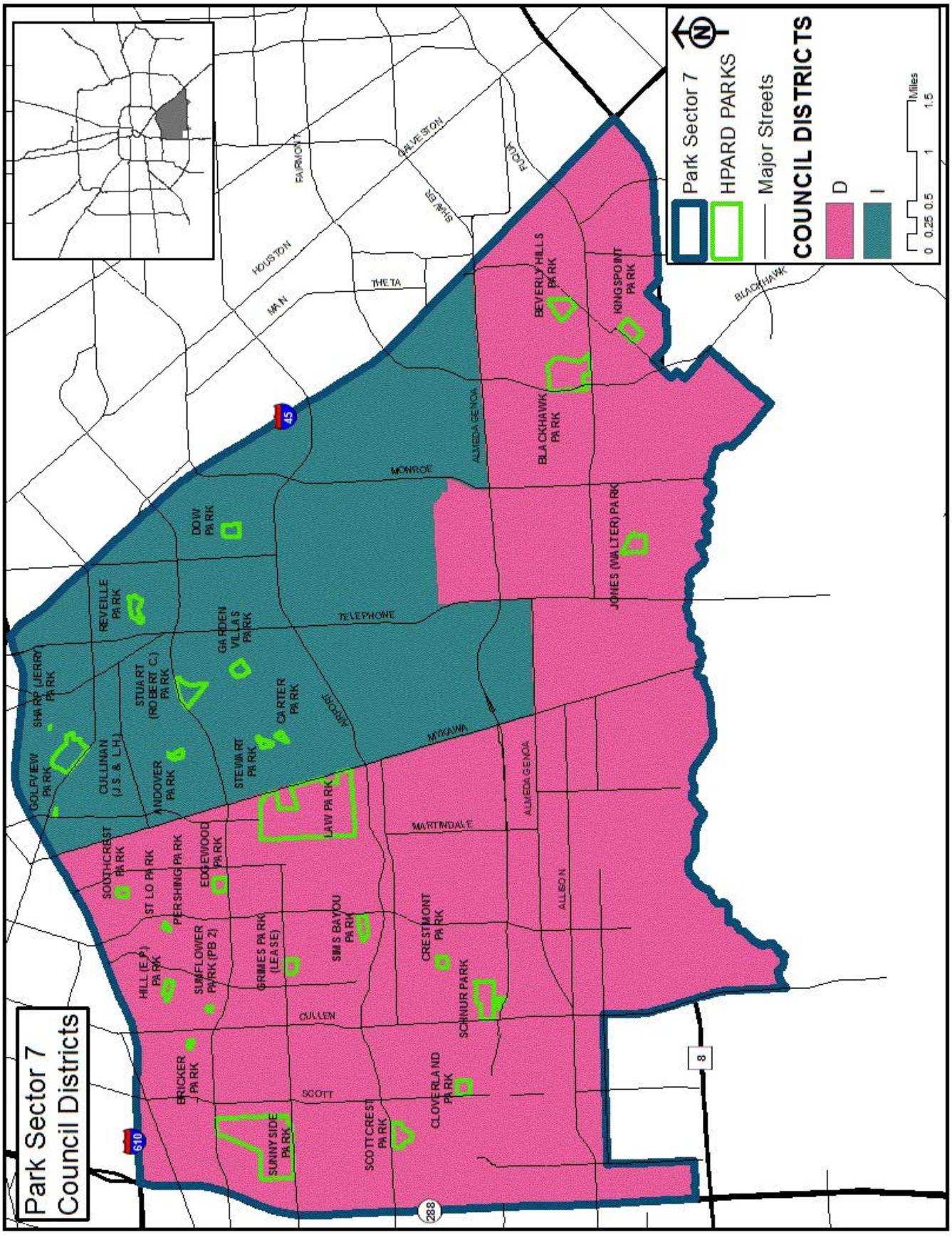


FIGURE 1: PARK SECTOR 7 COUNCIL DISTRICTS

Park Sector 7 Tax Increment Reinvestment Zone (TIRZs) and Management Districts

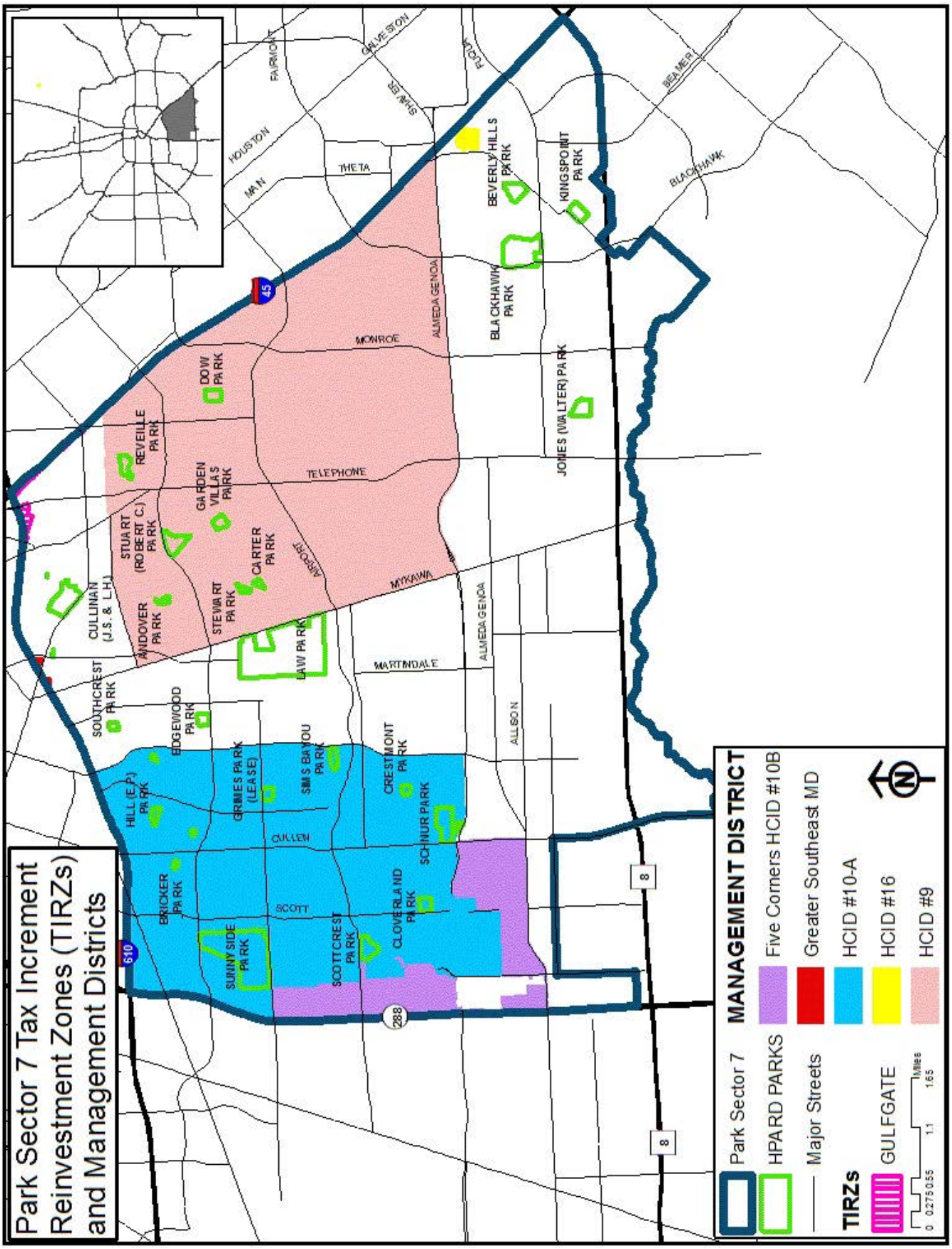


FIGURE 2: PARK SECTOR 7 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 7 Super neighborhoods

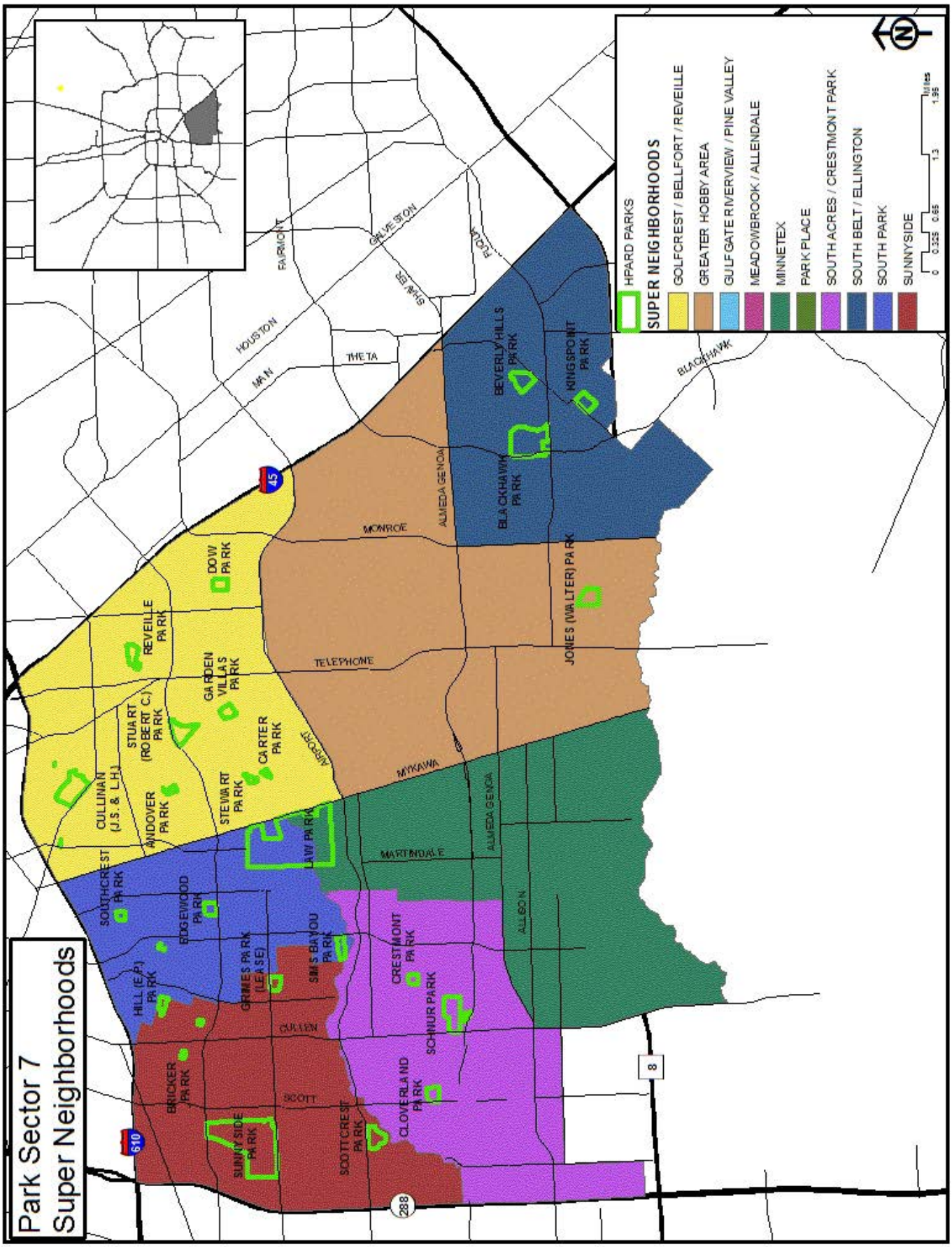


FIGURE 3: PARK SECTOR 7 SUPER NEIGHBORHOODS

Park Sector 7 Floodplain Areas

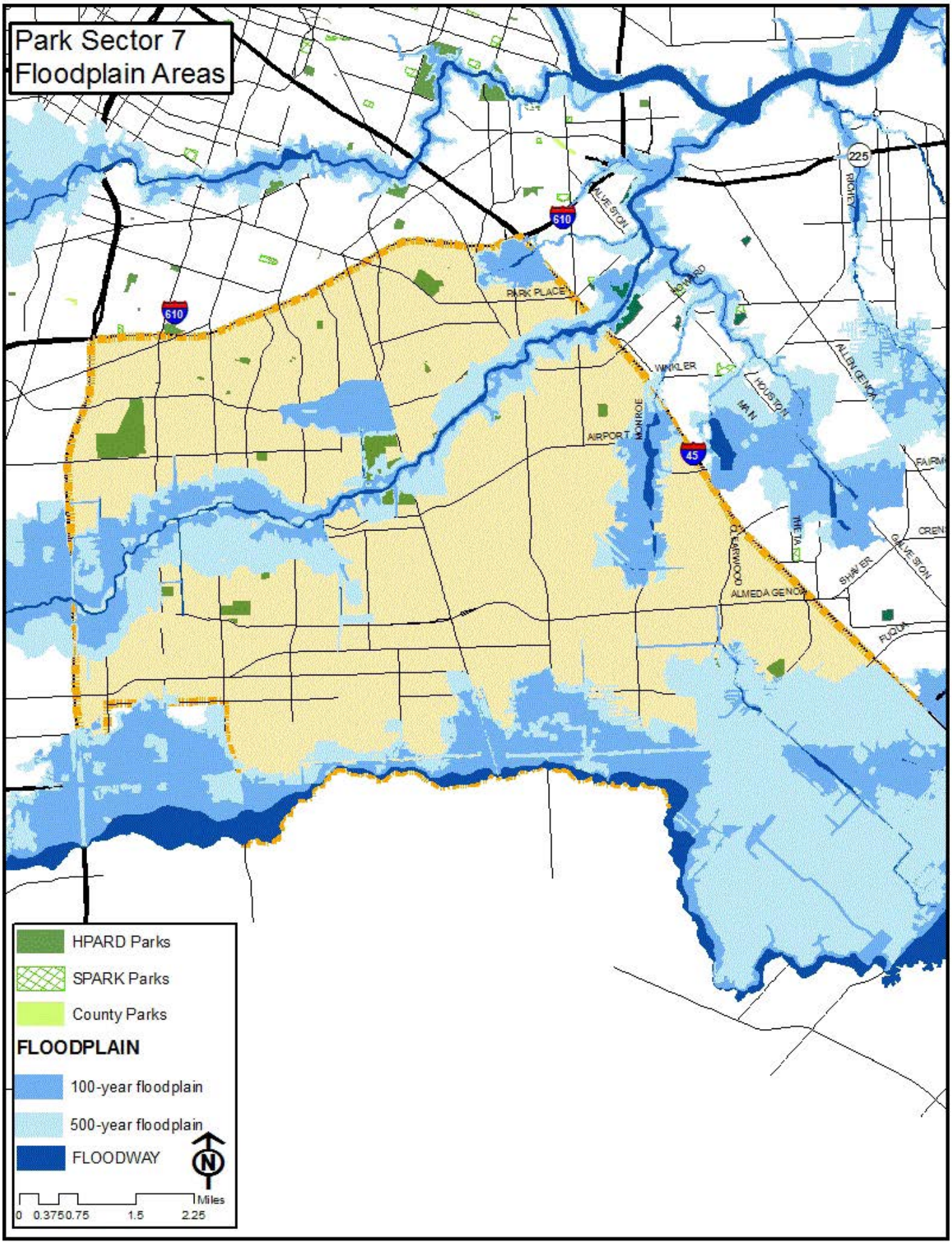


FIGURE 4: PARK SECTOR 7 FLOODPLAIN AREAS

PARK SECTOR 8

PARK SECTOR 8 SUMMARY

PARK SECTOR 8 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and TPL ParkScore™), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Develop Neighborhood connections to parks and trails
2. Revitalize existing parks
3. Acquire new parkland
4. Develop partnerships with the school system and other entities
5. Develop new park facilities
6. Preserve environmentally sensitive areas

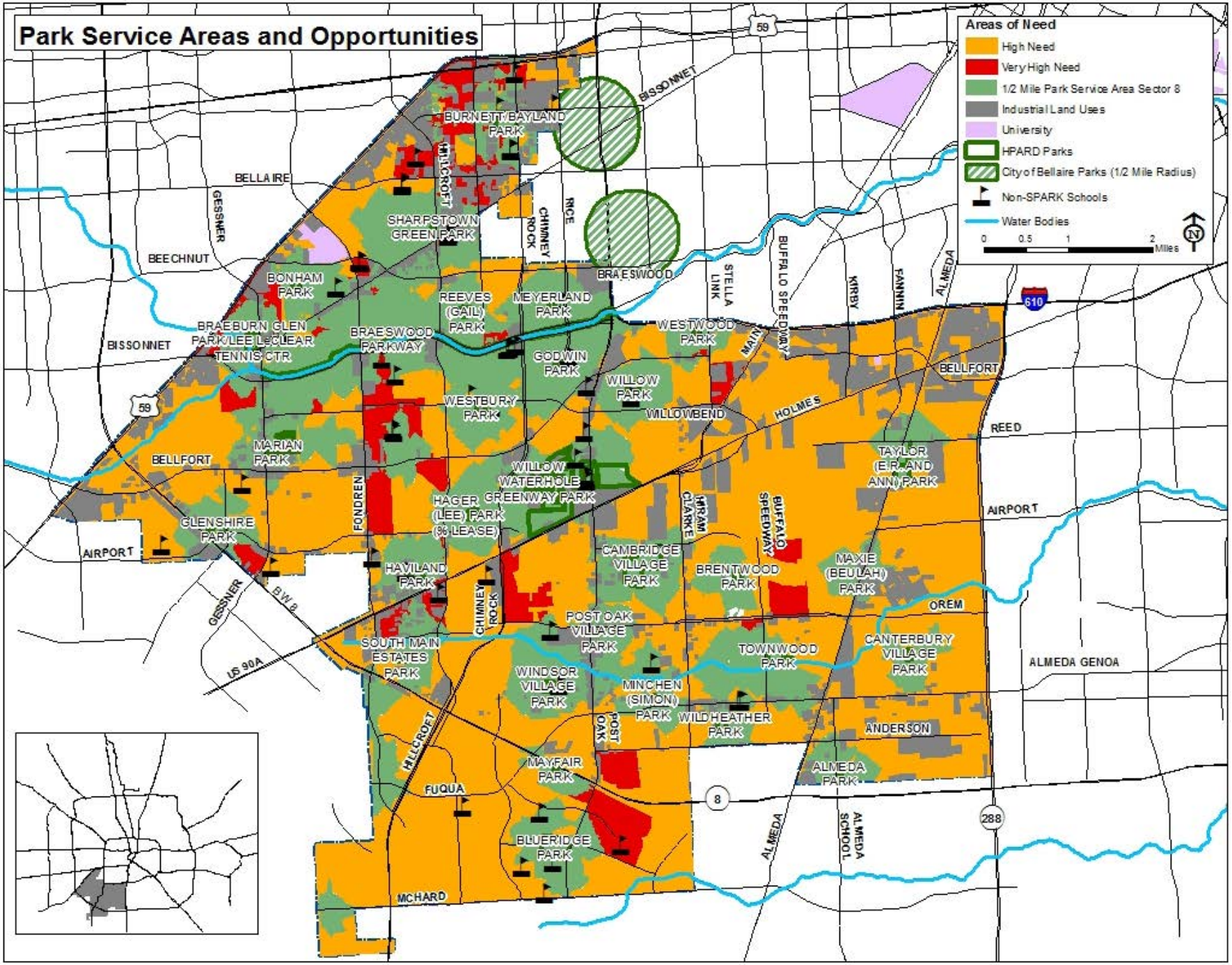
RECOMMENDATIONS

The parks in Park Sector 8 that have the highest need for redevelopment are listed from greatest need to least need: Hager (Lee) Park, Cambridge Village Park, Minchen (Simon) Park, Maxie (Beulah) Park, and Brentwood Park.

In this Park Sector 155 acres of parkland are needed. This Park Sector is the most populous of any throughout the city and has many areas of high need in the southeast. Schools not participating in the SPARK School Park Program (Non-SPARK schools) should be explored as potential future partnerships for park space. Fifty-seven (57%) of the population in this Park Sector has incomes considered to be low to moderate. Pursuing Community Development Block Grants (CDBG) for park improvements should be a priority. In addition, since several non-SPARK schools are located in high and very high park need areas, Community Development Block Grant funding could be considered in partnership with the SPARK Park program to add park space to the system and provide improvements at non-SPARK school locations. As there is little redevelopment occurring in this Park Sector, it should be targeted for CIP and bond funds for future development and land acquisition. There are large undeveloped tracts of land close to US-288 that should be explored for land acquisition. Furthermore, properties in the Gulfton area in the northwest part of the Park Sector should be explored as this is an area of need and very high density with lots of multi-family developments. There is a utility corridor along Hiram Clarke that connects into Park Sectors 13 and 14. Creating a trail along this utility corridor could greatly enhance north-south connectivity within this Park Sector and within the near-west sectors of the City and the existing Brays Bayou trail as well as the future Keegans Bayou trail. The Management and Improvement Districts and residents in the area have expressed interest in off-street Neighborhood connections to the trail via utility easements and Harris Flood Control District channels and are potential projects for future planning, implementation and maintenance.

This Park Sector is deficient in playgrounds, picnic shelters, trails, volleyball courts, dog parks, skate parks, community centers, swimming pools, and softball and soccer fields. In the 2014 survey, the top three priorities of residents in Park Sector 8 when asked what recreational needs existed in their Neighborhood were: hike, bike and walk trails, open space and natural areas, and upgraded recreation centers. Other services and amenities that residents asked for in the write-in portion of the survey were: fitness and nutrition programs, arts and crafts programs, senior programming, swim lessons, fishing activities, dance and theater programs, youth nature programs, adult volleyball, yoga and tai chi classes, and golf programming. Because of the health profile (obesity, 31.9%, and diabetes,14.5%, levels higher than the city as a whole of 30.8% and 11.4% respectively) of this Park Sector, partnerships focused on increasing physical activity levels and programming for healthy living should be explored.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Online Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector


Park Service Areas and Opportunities
Areas of Need
High Need
Very High Need
1/2 Mile Park Service Area Sector 8
Industrial Land Uses
University
HPARD Parks
City of Bellaire Parks (1/2 Mile Radius)
Non-SPARK Schools
Water Bodies
0 0.5 1 2 Miles
BURNETT/BAYLAND PARK
SHARPSTOWN GREEN PARK
BONHAM PARK
REEVES (GAIL) PARK
MEYERLAND PARK
BRAESWOOD PARKWAY
BRAEBURN GLEN PARK/LEE LECLEAR TENNIS CTR
GODWIN PARK
WESTBURY PARK
WILLOW PARK
WESTWOOD PARK
WILLOWBEND
MARIAN PARK
WILLOW WATERHOLE GREENWAY PARK
HAGER (LEE) PARK (% LEASE)
GLENSHIRE PARK
HAVILAND PARK
CAMBRIDGE VILLAGE PARK
BRENTWOOD PARK
MAXIE (BEULAH) PARK
TAYLOR (E.R. AND ANN) PARK
POST OAK VILLAGE PARK
SOUTH MAIN ESTATES PARK
WINDSOR VILLAGE PARK
TOWNWOOD PARK
CANTERBURY VILLAGE PARK
MINCHEN (SIMON) PARK
WILDHEATHER PARK
ANDERSON
MAYFAIR PARK
ALMEDA PARK
FUQUA
BLUERIDGE PARK
MCHARD
BELLAIRE
BEECHNUT
BISSONNET
BELLFORT
AIRPORT
REED
OREM
ALMEDA GENOA
HOLMES
GESSNER
FONDREN
HILLCROFT
CHIMNEY ROCK
RICE
BUFFALO SPEEDWAY
MAIN
STELLA LINK
KIRBY
FANNIN
ALMEDA
HIRAM CLARKE
POST OAK
ALMEDA SCHOOL
59
610
8
288
BW 8
US 90A

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Post Oak Village Park	13800	Lockway Dr	0.43	N/A
Sharpstown Green Park	6300	Sharpview	0.25	0.09
	Total HPARD Pocket Park Acreage		**0.68**	
Neighborhood Parks				
Almeda Park	14201	Almeda School Rd	1.00	N/A
Bonham Park	8401	Braes Acres	8.57	0.35
Braeburn Glen Park/Lee LeClear Tennis Ctr.	9510	S Gessner	12.90	0.25
Brentwood Park	13220	Landmark	7.90	0.33
Canterbury Village Park	12822	Northumb	4.40	0.33
Chimney Rock Park	11655	Chimney Rock	1.59	N/A
Glenshire Park	12100	Riceville School Rd	12.91	0.41
Godwin Park	5101	Rutherglen	8.17	0.42
Hager (Lee) Park (% Lease)	12100	Landsdowne	9.72	0.51
Maxie (Beulah) Park	2625	Monticello	1.10	N/A
Mayfair Park	6000	Arthington	1.00	N/A
Meyerland Park	5151	Jason	6.77	N/A
Minchen (Simon) Park	4900	W Fuqua	3.30	N/A
Reeves (Gail) Park	8800	Mullins	8.03	0.35
South Main Estates Park	12256	Zavalla Rd	4.93	0.32
Westbury Park	5635	Willowbend	5.94	N/A
Westwood Park	4045	Lemac	5.88	0.38
Whiting Tract (PB 4)	8200	Williamcrest Lane	2.50	N/A
Wildheather Park	14900	Whiteheather	12.15	N/A
Willow Park (Lease)	10400	Cliftwood	7.63	0.25
Windsor Village Park	1441	Croquet	8.99	0.31
	Total HPARD Neighborhood Park Acreage		**135.38**	
Community Parks				
Blueridge Park	5600	Court Rd	45.15	0.62
Burnett Bayland Park	6000	Chimney Rock	31.98	0.96
Cambridge Village Park	13000	Nitida	81.78	0.50
Haviland Park	11600	Haviland	17.79	0.28
Marian Park	11000	South Gessner	27.48	0.25
Taylor (E.R. and Ann) Park	1850	Reed Road	25.71	N/A
Townwood Park	3403	Simsbrook	26.81	0.39
Willow Waterhole Greenway Park	5300	Gasmer	60.00	1.17
	Total HPARD Community Park Acreage		**316.70**	
Linear/Greenway/Regional Parks				
Braeswood Parkway		Holcombe/South Gessner	175.43	
	Total HPARD Regional Park Acreage		**175.43**	
	Total HPARD Park Acreage		**452.76**	
	Total HPARD Trail Length		**8.30**	

EXISTING COMMUNITY CENTERS AND POOLS

Community Centers and Pool Facilities	Address	Zip Code	Agency Responsible
Almeda Community Center	14201 Almeda School Road	77047	HPARD
Burnett Bayland Community Center	6000 Chimney Rock	77081	HPARD
Godwin Community Center	5101 Rutherglen	77096	HPARD
Marian Community Center	11000 South Gessner	77071	HPARD
Platou Community Center	11655 Chimney Rock	77035	HPARD
Townwood Community Center and Pool	3403 Simsbrook	77045	HPARD
Westbury Park Pool	5635 Willowbend	77096	HPARD
Windsor Village Community Center and Pool	1441 Croquet	77085	HPARD

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger).The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Approximately 54% of the area in this Park Sector is in need of parkland accessible within a ½ mile, as compared to 55% of the population of the City of Houston who need park access. Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains 1,513 acres of parkland (Harris County, HPARD & other providers). Of the 39,530 acres in this Park Sector, 4% of this acreage is parkland.
- There are almost 295,000 residents living in this Park Sector; this is most populated Park Sector with almost 14% of the population of the city. There is a high percentage of elderly & youth.
- An additional 155 acres of parkland (Neighborhood parks) are needed in Park Sector 8. This is based on the current population (2010 US Census) of the Park Sector and needs assessment done for Pocket, Neighborhood and Community parks (number of acres per 1,000 people).
- The Health of Houston 2010 Survey shows that 14.5% of the population has been diagnosed with diabetes, compared to 11.4% for the City of Houston as a whole of.
- H-GAC population projections estimate that this area will add over 120,000 residents by 2040. To meet the estimated 2040 population an additional 297 acres of parkland will be needed.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	73	29	58	30	52	6	3	3	10	6	4	29	10	29
2015 Existing	44	23	29*	30	52	2	0	0	8	3	4	29	2	25
2015 Needed	29	6	29	-	-	4	3	3	2	3	-	-	8	4
2040 Needed	31	12	24	-	-	2	1	-	4	2	-	-	4	12

*This number includes 7 miles of trails currently planned along Sims Bayou under the Bayou Greenways (BG2020) Initiative.

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.
2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.
3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.
4. Annual Operation & Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$87,000,000	155 Acres- $16,000,000	$41,000,000	$18,000,000
2040	$77,000,000	297 Acres- $30,000,000	$130,000,000	$8,000,000
TOTAL 2040	$164,000,000	452 Acres- $46,000,000	$171,000,000	$26,000,000

PARK SECTOR PROFILE 8

LOCATION AND POLITICAL BOUNDARIES

Park Sector 8 is located south of 610, west of SH 288, east of 59, and Beltway 8 runs through the south end of the Park Sector.
Park Sector Size: 39,529.9 acres or 61.8 square miles
Population: 293,586 people, Density: 4,750 persons/sq. mi.
Political Boundaries within Park Sector 8:

- Council Districts: J, K, C, and D
- Super neighborhoods contained in this Park Sector: Gulfton, Sharpstown, Braeburn, Westwood, Brays Oaks, Westbury, Meyerland Area, Willow Meadows/Willowbend Area, South Main, Astrodome Area, Central Southwest, and Fondren Gardens
- TIRZ: South Post Oak
- Management Districts: Sharpstown, Harris County Improvement District # 5 (Brays Oaks), Five Corners Improvement District (10B), and Harris County Improvement District 10A

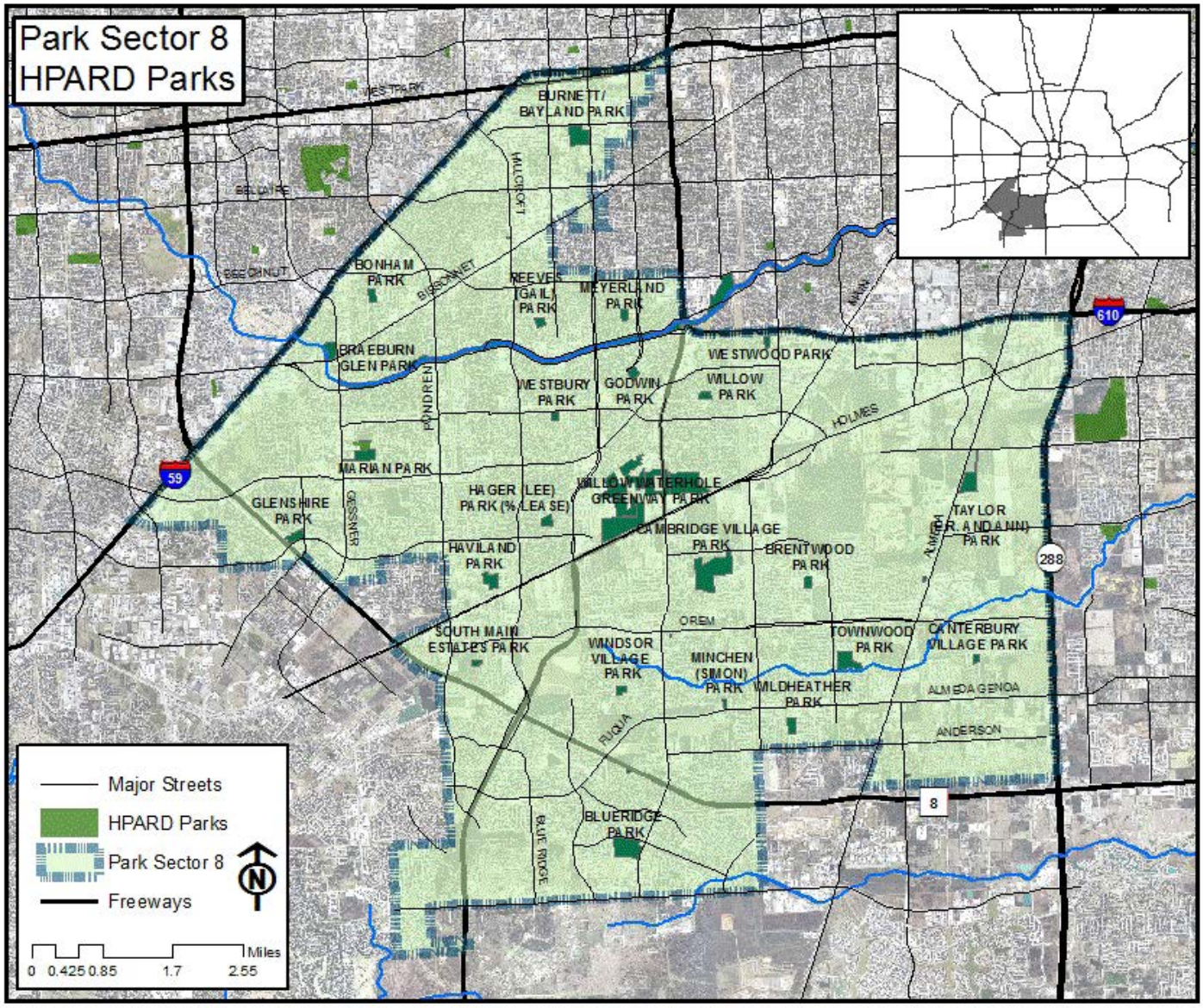


FIGURE 1. PARK SECTOR 8 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 8 Population	Park Sector 8 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**293,586**	-	2,119,831	-
Hispanic or Latino	135,920	46.3%	919,668	43.8%
Non-Hispanic White	46,086	15.7%	537,901	25.6%
Non-Hispanic Black	93,811	32.0%	485,956	23.1%
Non-Hispanic American-Indian	393	0.1%	126,098	6.1%
Non-Hispanic Asian	13,934	4.7%		
Non-Hispanic Hawaiian or Pacific Islander	50	0.0%		
Non-Hispanic Some Other Race	3,392	1.2%	26,828	1.3%

TABLE 1. PARK SECTOR 8 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains 13.8% of the population of Houston, being the second most populated Park Sector in the entire City of Houston. The majority (46.3%) of residents are Hispanic/Latinos, followed by Non-Hispanic Blacks (32%), Non-Hispanic Whites (15.7%), and other ethnic groups (5%). The majority of the population lives along the freeways that comprise the boundaries of the Park Sector. The least dense area in the Park Sector is more centrally located in the Meyerland area along Brays Bayou and closer to US 610.

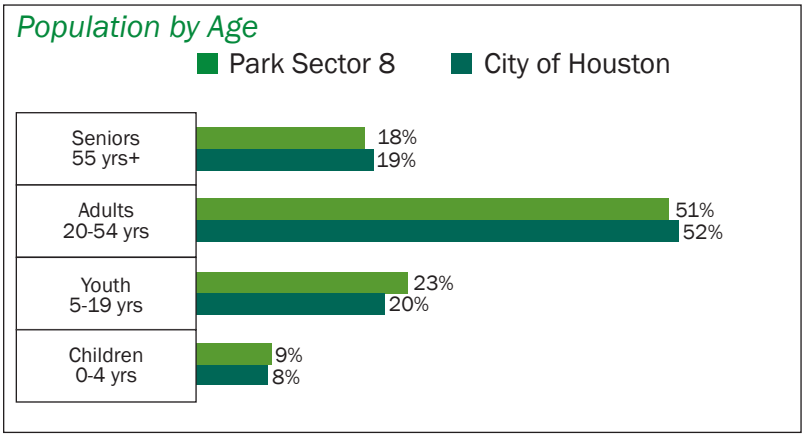


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 8 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that the percent of the population aged 5-19 (20%) is lower than that of the rest of the city (23%). The remainder of the age groups in this Park Sector closely mirror the trends present throughout the entire City of Houston. This signals that this Park Sector is similar to the City of Houston in that the population of children 19 and under comprises nearly a third of the population. These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 8 Population	PS 8 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	26,304	9%	9%	166,066	8%	8%
Youth	5-9 yrs	23,756	8%	23%	148,843	7%	21%
	10-14 yrs	21,409	7%		135,622	7%	
	15-19 yrs	21,879	7%		140,673	7%	
Adults	20-34 yrs	73,028	25%	51%	539,348	26%	52%
	35-44 yrs	40,929	14%		286,117	14%	
	45-54 yrs	36,631	12%		265,060	13%	
Senior	55-64 yrs	28,337	10%	18%	204,852	10%	19%
	65 yrs +	24,176	8%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 8 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 113,010 housing units in this Park Sector. The percent of vacant housing in Park Sector 8 (11.1%) is slightly lower as compared to the vacancy rates for the entire city (12.3%). Home ownership for this Park Sector (41.8%) is slightly higher than that of the City of Houston (39.7%) and the share of renters (47.1%) is the same as the city's (47.1%).

Income

The median household income for this Park Sector ($39,142) is significantly lower than that of the City of Houston ($48,322). 61,384 households, or 61%, in this area have an income below the Houston median household income.

Educational Attainment

Within Park Sector 8 the percent (23%) of individual 25+ years of age with a Bachelor's degree or higher is lower than the relative percent for the entire City of Houston (28%). The other trends of educational attainment in this Park Sector are similar to those for the City of Houston.

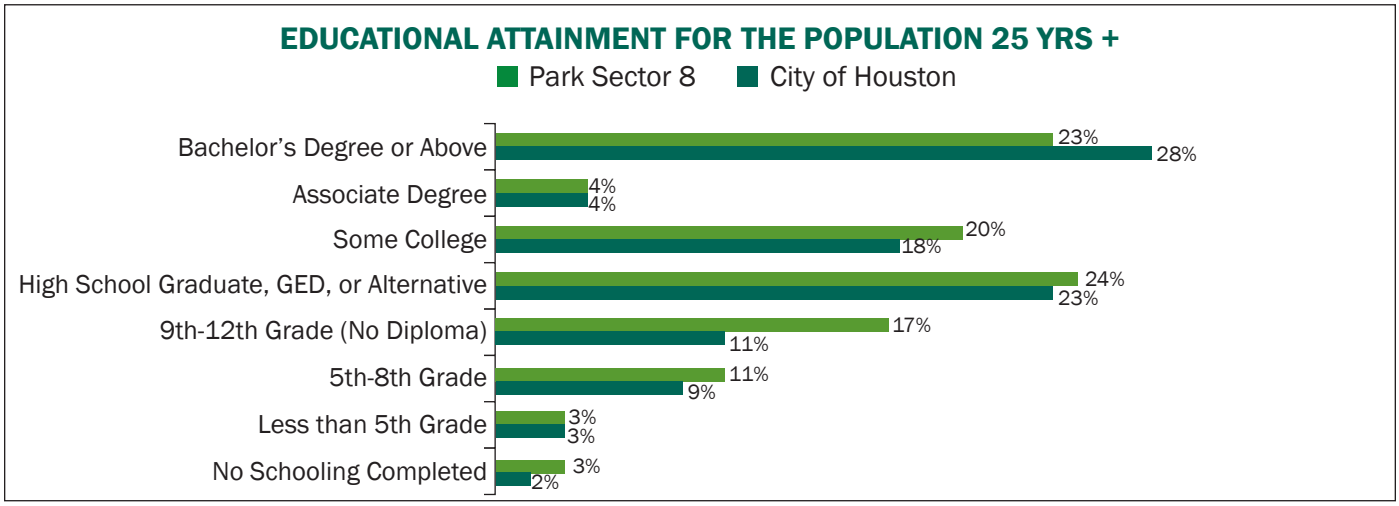


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 31.9% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that 14.5% of the adult population received a diagnosis of diabetes by a professional, which is above the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that over 30% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is slightly lower than that of the entire city (32%). The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%. Finally, the survey shows that almost a quarter of the population (24.1%) does not engage in moderate physical activity at all, which is slightly higher than the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

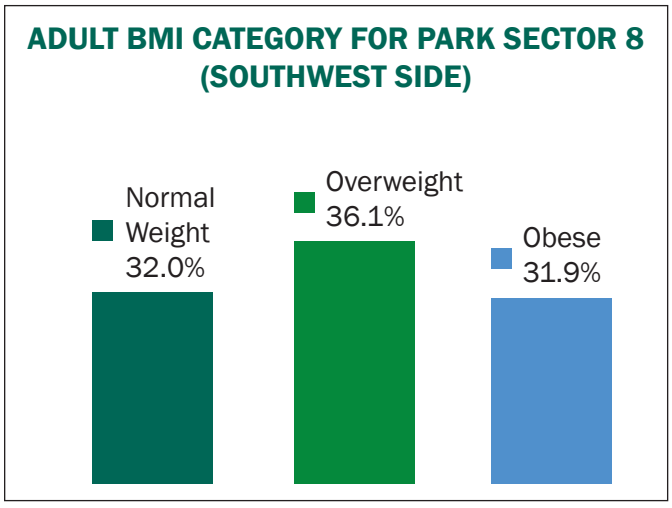


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	24.10
1	6.80
2	12.70
3	16.00
4	9.70
5	11.50
6	1.30
7	18.00

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	57,543	77.5%	34,823	62.5%
Multi-Family	6,384	8.6%	1,852	3.3%
Commercial	1,325	1.8%	1,938	3.5%
Office	203	0.3%	280	0.5%
Industrial	1,040	1.4%	2,819	5.1%
Public & Institutional	254	0.3%	1,865	3.3%
Transportation	224	0.3%	1,054	1.9%
Parks & Open Space	402	0.5%	901	1.6%
Undeveloped	6,521	8.8%	8,590	15.4%
Agriculture Production	361	0.5%	1,567	2.8%
TOTAL	74,257		55,688	

TABLE 4. LAND USE BY DESCRIPTION (2013 HCAD)

Park Sector 8 largely is contained within Harris County (about 34,000 acres); however, the southern portion of the Park Sector outside of Beltway 8 is Fort Bend County (about 5,000 acres or 12,000 parcels). According to HCAD and FBCAD, Park Sector 8 consists largely of single-family land use, 62.5% of all acreage and 77.5% of all parcels in the Park Sector are single-family. The majority of the rest of the Park Sector is comprised of undeveloped land, 15.4% of all acreage and 8.8% of all parcels are undeveloped. However, some large parcels by Airport Road and Highway 288 that are coded undeveloped belong to the Houston Livestock Show & Rodeo. While only 1.4% of the parcels are industrial, they constitute 5.1% of all acreage in the Park Sector and are predominantly clustered along major freeways. These two counties code their land uses differently and some assumptions were made with the land use coding for Fort Bend County to mirror that of Harris County.

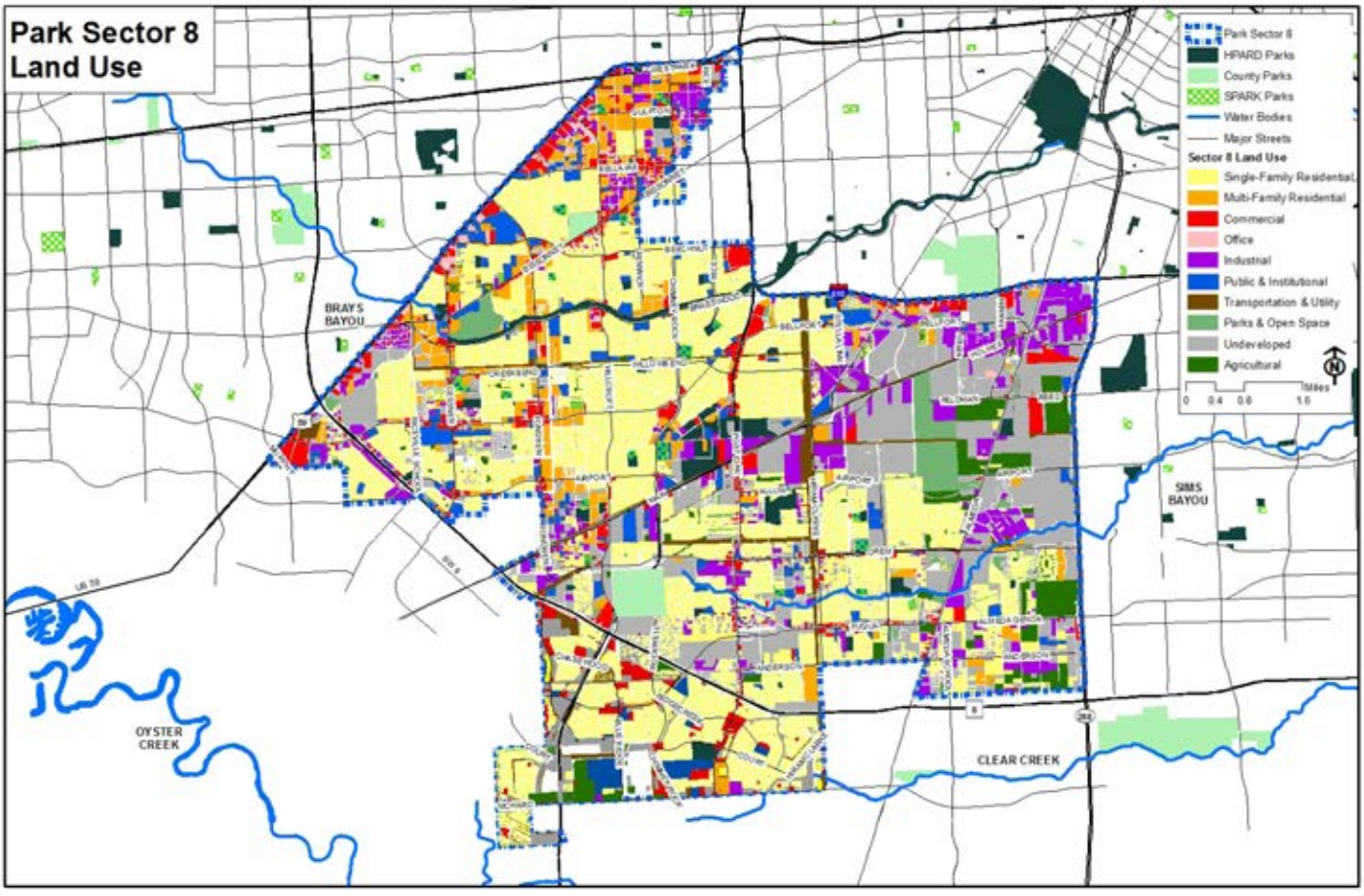


FIGURE 5. PARK SECTOR 8 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

HPARD PARKS AND TRAILS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Post Oak Village Park	13800	Lockway Dr	0.43	N/A
Sharpstown Green Park	6300	Sharpview	0.25	0.09
Total HPARD Pocket Park Acreage			**0.68**	
Neighborhood Parks				
Almeda Park	14201	Almeda School Rd	1.00	N/A
Bonham Park	8401	Braes Acres	8.57	0.35
Braeburn Glen Park/Lee LeClear Tennis Ctr.	9510	S Gessner	12.90	0.25
Brentwood Park	13220	Landmark	7.90	0.33
Canterbury Village Park	12822	Northumb	4.40	0.33
Chimney Rock Park	11655	Chimney Rock	1.59	N/A
Glenshire Park	12100	Riceville School Rd	12.91	0.41
Godwin Park	5101	Rutherglen	8.17	0.42
Hager (Lee) Park (% Lease)	12100	Landsdowne	9.72	0.51
Maxie (Beulah) Park	2625	Monticello	1.10	N/A
Mayfair Park	6000	Arthington	1.00	N/A
Meyerland Park	5151	Jason	6.77	N/A
Minchen (Simon) Park	4900	W Fuqua	3.30	N/A
Reeves (Gail) Park	8800	Mullins	8.03	0.35
South Main Estates Park	12256	Zavalla Rd	4.93	0.32
Westbury Park	5635	Willowbend	5.94	N/A
Westwood Park	4045	Lemac	5.88	0.38
Whiting Tract (PB 4)	8200	Williamcrest Lane	2.50	N/A
Wildheather Park	14900	Whiteheather	12.15	N/A
Willow Park (Lease)	10400	Cliftwood	7.63	0.25
Windsor Village Park	1441	Croquet	8.99	0.31
Total HPARD Neighborhood Park Acreage			**135.38**	
Community Parks				
Blueridge Park	5600	Court Rd	45.15	0.62
Burnett Bayland Park	6000	Chimney Rock	31.98	0.96
Cambridge Village Park	13000	Nitida	81.78	0.50
Haviland Park	11600	Haviland	17.79	0.28
Marian Park	11000	South Gessner	27.48	0.25
Taylor (E.R. and Ann) Park	1850	Reed Road	25.71	N/A
Townwood Park	3403	Simsbrook	26.81	0.39
Willow Waterhole Greenway Park	5300	Gasmer	60.00	1.17
Total HPARD Community Park Acreage			**316.70**	
Regional Parks				
Braeswood Parkway	6200	Holcombe/South Gessner	175.43	
Total HPARD Regional Park Acreage			**175.43**	
	Total HPARD Park Acreage		**628.20**	
	Total HPARD Trail Length			**8.3**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 8

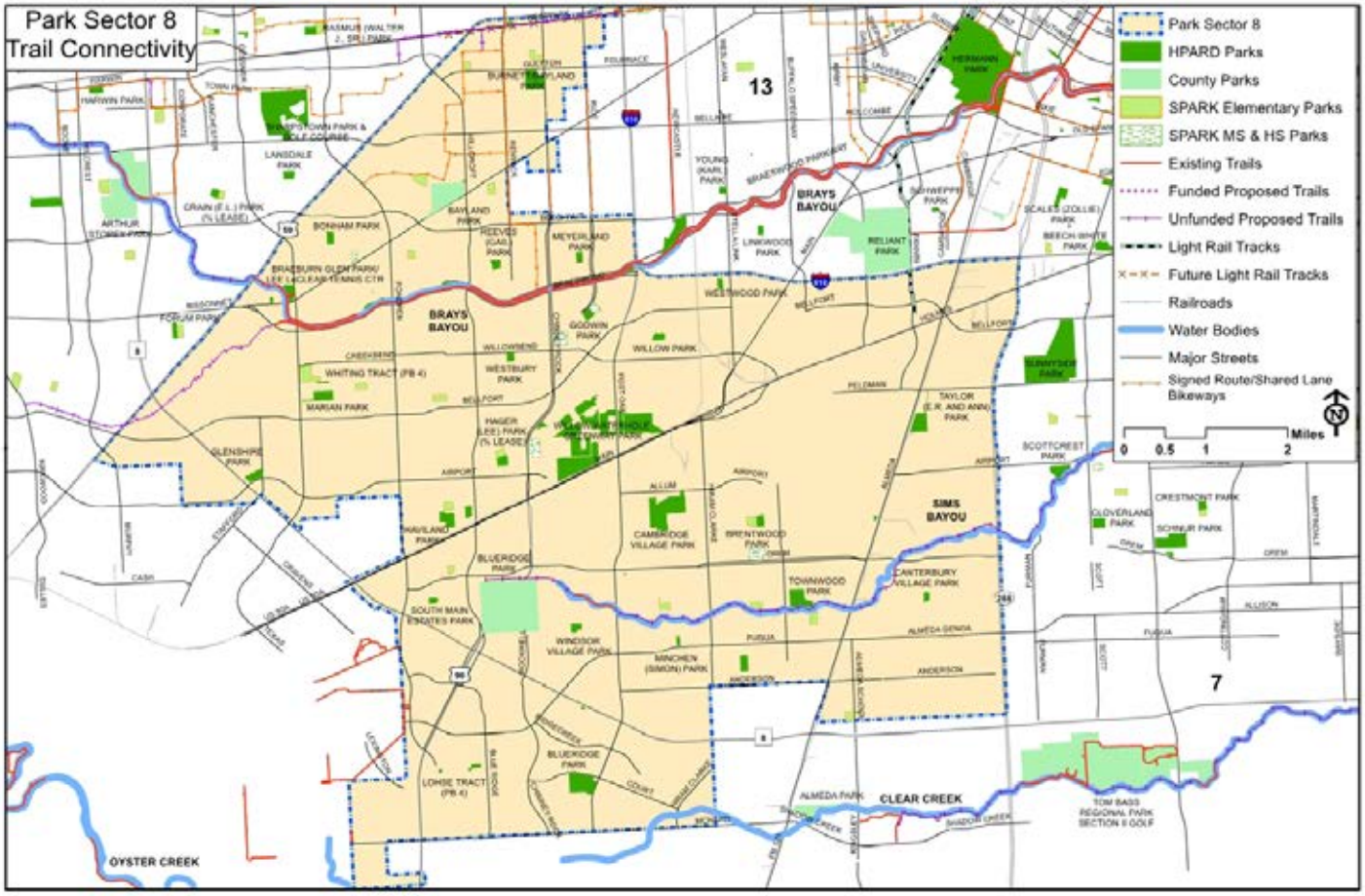


FIGURE 6. PARK SECTOR 8 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

The Houston Parks and Recreation Department operates 32 parks in the area accounting for 628.20 acres of parkland. The maintenance responsibility of the Braeswood Parkway acreage and trail surface is shared amongst Harris County Precinct 3 and HPARD (further refinement of this data will be available in the next draft). Harris County operates 7 park properties in the area accounting for 637.99 acres of parkland. Harris County maintains and operates 4 parks and 2 hike and bike trails in this Park Sector that total 399.70 acres. HPARD and Harris County Flood Control District have partnered to on a 280-acre facility for recreation (Willow Water Hole Greenway Park) and flood control. HPARD currently maintains 60 acres and HCFCD 220 acres.

Currently, HPARD maintains 8.3 miles of trails, Harris County maintains 11.6 miles of trails, and HISD maintains 2.5 miles (track) inside 11 SPARK Parks in the Park Sector. Collectively, there is a total of 23.01 miles of trails within this Park Sector. The Bayou Greenway Initiative (BG2020) is linking gaps along Brays Bayou. When the connections are made along Brays Bayou at build-out, there will be a 19-mile system that will allow users from Park Sector 8 to traverse to the Houston Ship Channel, the Medical District, the University of Houston main campus and Downtown via Columbia Tap Trail (going northeast of Brays Bayou approximately 3 miles). Trails will also be built along Sims Bayou on a partnership between Houston Parks Board and the American Community Survey to connect to the existing 0.6 mile tract of the trail to create a 14-mile trail system. In addition, City of Houston will begin construction of the Keegans Bayou Trail (south fork from the end of Brays Bayou Trail) which will add 2.5 miles of trail in this Park Sector. According to the LOS analysis on Table 8, there is a need for an additional 36 miles of trails to meet current population standards for Park Sector 8. The miles (9.3) planned to be added to this Park Sector, 6.8 miles for Sims Bayou and 2.5 miles for Keegans Bayou, will only reduce the number of miles of trails needed to 27 miles, however, the impact is made when the connections to major employment centers and the rail are made. This Park Sector appears to have availability of land adjacent to Sims and Keegans Bayous and there is potential to purchase parkland to meet the needs of the population in this area as well as to provide connections to existing or future neighborhoods.

County Parks and Trails

Harris County maintains four parks and two hike and two bike trails in this Park Sector. It should be noted that Harris County Blueridge park is distinct from HPARD's Blueridge Park.

County Park				
Facility Name	**Address**	**Street**	**Total Acres**	**Trail Length**
Bayland Park	6400	Bissonet Street	69.83	0.35
Blueridge	3511	Reed Road	296	N/A
Brays Bayou Hike & Bike Trail	9601	Braes Bayou Drive	11.71	8.5
Harris County Bonham Nature Park	7505	Wanda Lane	1.16	0.11
Sims Bayou Hike & Bike Trail 1		MLK to Scott	7.3	2
Sims Bayou Hike & Bike Trail 3		Post Oak to Croquet	10.9	0.6
Stein Family Park	9601	Braes Bayou Drive	2.8	0.1
HCFCD				
Willow Water Hole Greenway Bayland Park			220	
		Total HC Park Acreage	**619.7**	
		Total HC Trail Length		**11.6**

TABLE 6. TRAILS INTERNAL TO COUNTY PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 8

SPARK Parks

There are 15 Elementary Schools, one Middle School and 2 High Schools participating in the SPARK Program providing access to park space and a variety of amenities to the public.

SPARK Parks				
Facility Name	**Address**	**Street**	**Total Acres***	**Amenities**
Almeda Elementary School	14249	Bridgeport Rd	8.28	
Anderson Elementary School	5727	Ludington Dr	8.93	Playground
Benavidez Elementary School	6262	Gulfton St	7.6	Playground, Basketball Pavilion
Braeburn Elementary School	7707	Rampart St	7.2	Playground
Eleanor Tinsley Elementary School	11035	Bob White Dr	7.98	Playground, 0.12 Trail, Multi-Purpose Field
Foerster Elementary School	14200	Fonmeadow Dr	6.95	Playground, 0.19 Trail, Swing Set, Multi-Purpose Field
Fondren Elementary School	12405	Carlsbad St	4.97	Playground, 0.13 Trail, Swing Set
Grissom Elementary School	4900	Simsbrook Dr	7.42	Playground, Basketball Pavilion, Swing Set
Hobby Elementary School	4021	Woodmont Dr	7.8	2 Playgrounds, Basketball Court
Johnston Middle School	10410	Manhattan	25.9	0.25 mi Trail, Baseball Field, Basketball Hoops
Madison High School	13719	White Heather Dr	19.96	0.26 mi Trail, Basketball Pavilion, Multi-Purpose Field
McNamara Elementary School	8714	Mcavoy Dr	5.36	Playground, Basketball Pavilion
Milne Elementary School	7800	Portal Dr	7.13	Playground, 0.14 Trail
Montgomery Elementary School	4000	Simsbrook Dr	7.04	Playground, 0.3 Trail, Basketball Pavilion, Swing Set, Soccer Field (Unlit)
Petersen Elementary School	14414	Waterloo Dr	8.1	Playground, 0.15 Trail
Sharpstown High School	7504	Bissonnet St	5	0.26 mi Trail, Multi-Purpose Field
Sutton Elementary School	7402	Albacore Dr	11.94	Playground, 0.17 Trail, Basketball Hoops
Sylvan Rodriguez Elementary School	5858	Chimney Rock Rd	9.74	Playground, 0.27 Trail
Valley West Elementary School	10707	Gessner Dr	21.62	Playground
Westbury High School	11911	Chimney Rock Dr	21.46	0.26 mi Trail, Multi-Purpose Field
Total Acres*			**210.38**	

TABLE 7. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 8 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

Open and Green Space

To determine level of service, the 2007 Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by The Trust for Public Land ParkScore™ Project. The table below shows the level of service (LOS) based on the 2007 HPARD recommended standards of a number of acres per 1,000 people using the 2010 Census population. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): this Park Sector is lacking 0.79 acres in Pocket Parks and 154 acres of Neighborhood Parks for a total of 155 acres of parkland. For the purposes of this analysis, the portion of Willow Water Hole Greenway Park that HPARD currently maintains (60 acres) was included under the classification of Community Park and thus this category shows sufficient park acreage. Braeswood Parkway and all bayou greenways are being considered as a regional park in this analysis. With the BG2020 efforts to build out bayou greenways throughout the city, the greenway and trail system should be considered more as linear, Regional Parks that will eventually traverse the majority of the city and serve various areas and population. The acreage for Regional Park will be accounted for when the city-wide analysis is conducted and staff may revisit what impact and how each regional park should be accounted within each Park Sector.

Park Type	HPARD Park Number	HC Park Number	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
								Population			293,586
Pocket Park (<1 acre)	2	0	0.68	0	0	0.68	0.005 ac/ 1,000 people	0.00	0.00	0.79	0.79
Neighborhood Park (1-15 acres)	21	2	135	3.96	0	139.34	1 ac/1,000 people	0.46	0.47	158.21	154.25
Community Park (16-150 acres)	8	1	316.70	69.83	59.95	446.48	1.5 ac/1,000 people	1.08	1.52	123.68	-6.10
Regional Parks (151+ acres)	1	5	175.43	545.91	205	926.34	8.0 ac/1,000 people				
TOTAL	32	8	628	619.7	264.95	1,512.84				282.67	155.03

TABLE 8. HPARD LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Another way to measure the level of service provided by parks is by looking at a “walkable” distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ Project study mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project. The areas in green on the map below represent the area within ½ mile of existing parks not blocked by freeways or major roads; the hatched area represents the service area of a publicly accessible (owned, developed and maintained by the City of Bellaire) park that was not account for when the Trust for Public Land (TPL) ParkScore™ data was produced. These parks only provide a small amount of coverage for the fringes of the Park Sector. Roughly 54% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, which is almost equal to that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector.

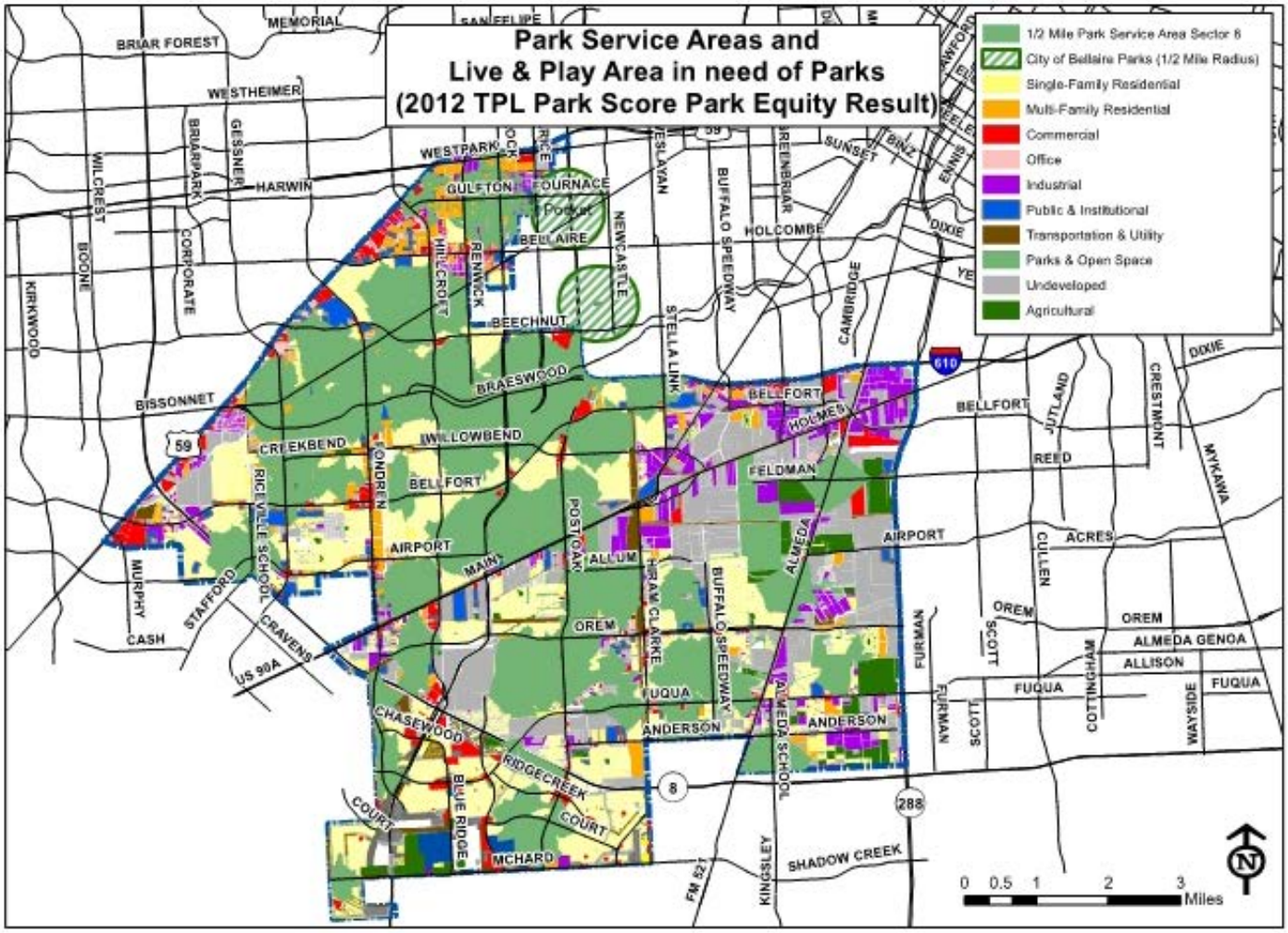


FIGURE 7. PARK SECTOR 8 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

AMENITIES AND SERVICES

This map shows some of the community services available in this area: community centers, multi-service and health centers, schools, libraries, and YMCAs. There are seven community centers located in Park Sector 8: Almeda, Burnett Bayland, Godwin, Marian, Platou, Townwood, and Windsor Village Community Centers.

The Hiram-Clarke Multi-Service Center, which is owned and operated by the City of Houston is located in this Park Sector. It contains many valuable community resources, such as a community garden, the Vinson Neighborhood Library branch of the Houston Public Library, adult education classes taught by Houston Community College, and a variety of governmental and nonprofit organizations that offer services to disadvantaged populations, such as children, seniors, homeless people, and impoverished households. The Southwest Multi-Service Center offers similar services such as a community garden, a Houston Public Library Express location, a Women, Infant, and Children (WIC) Nutrition Program, and a variety of other nonprofit and governmental organizations that offer services to in need individuals and families. The West Orem YMCA is also located in this Park Sector. The Baker-Ripley Neighborhood Center is located near to the Southwest MSC and provides: immigration services, senior and youth programs, computer and fitness classes, health and wellness programs, tax services, and a private charter school. The Alliance for Multicultural Community Services is also located in this Park Sector. It provides refugee resettlement assistance, case management, ESL classes, a micro-lending program for small businesses, marriage counseling, youth development programs, and eventually will own and operate a housing project. The libraries in this Park Sector provide computer access, community meeting space, and educational programs.

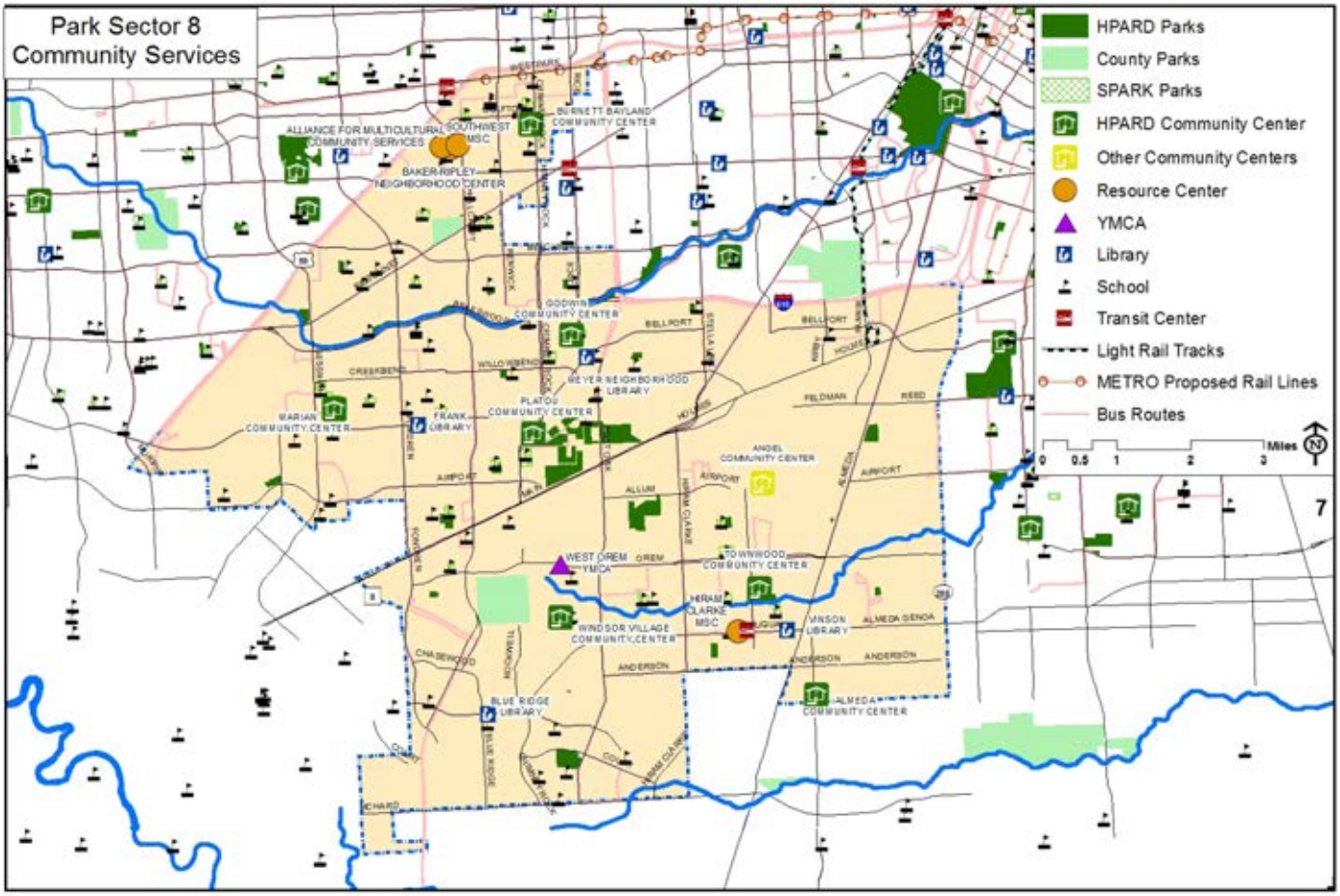


FIGURE 8. PARK SECTOR 8 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities - Level of Service

The 2007 HPARD standards by amenity have been applied to the amenities in Park Sector 8. The first column after the recommended HPARD standards indicates the level of service (LOS) accounting for HPARD facilities only, the total inventory standard accounts for facilities from all providers. The standard for each amenity is then compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these recommended HPARD standards, Harris County and other providers are meeting the needs of the residents for outdoor basketball courts, tennis courts, outdoor spraygrounds, and baseball fields. This Park Sector is deficient in playgrounds (28), picnic shelters (6), trails (36 miles), Volleyball Courts (4), dog parks (3), skate parks (3), community centers (2), swimming pools (3), softball fields (8), and soccer fields (4).

	HPARD	Harris County	Other Providers	Total	Recommended HPARD Standard		Current HPARD Level of Service		Current Total Inventory Level of Service		HPARD NEEDS Over/ Under Service	Total Inventory NEEDS Over/ Under Standard
						Population		293,586				
Playgrounds	24	4	16	44	1	4,000	1	12,233	1	6,672	49	29
Picnic Shelters	20	3	0	23	1	10,000	1	14,679	1	12,765	9	6
Trails	8.3	11.6	2.5	22	0.2	1,000	0.03	1,000	0.08	1,000	50	36
Outdoor Basketball Courts	22	0	8	30	1	12,000	1	13,345	1	9,786	2	-6
Tennis	46	4	2	52	1	10,000	1	6,382	1	5,646	-17	-23
Volleyball	2	0	0	2	1	50,000	1	146,793	1	146,793	4	4
Dog Parks	0	0	0	0	1	100,000	1	293,586	1	293,586	3	3
Skate Parks	0	0	0	0	1	100,000	1	293,586	1	293,586	3	3
Community Centers	7	0	1	8	1	30,000	1	41,941	1	36,698	3	2
Swimming Pools	3	0	0	3	1	50,000	0	97,862	0	97,862	3	3
Outdoor Spraygrounds	3	0	1	4	1	100,000	1	97,862	1	73,397	0	-1
Baseball (Lit & Unlit)	11	12	6	29	1 field	30,000	1	26,690	1	10,124	-1	-19
Softball (Lit & Unlit)	2	0	0	2	1 field	30,000	0	293,586	0	293,586	8	8
Soccer (Lit & Unlit)	12	2	11	25	1 field	10,000	0	24,466	0	11,743	17	4

TABLE 9. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 8
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- Braeburn Glen will be renovating in 2016 including: refurbishment of the existing parking lot, new lights for the parking lot, entry plaza, ornamental fence, maintenance gate, dumpster enclosure, and drinking fountain.
- Townwood Park's baseball field will be lighted and the parking lot were overlaid in 2013.
- Westbury Park received CIP funds for a new playground in 2013.
- Wildheather Park will receive a renovation in 2015, which could include a new lighted walking trail, playground, splash pad, pavilion, fitness are, sports field and half basketball court.

SUPPLEMENTAL MAPS:

Park Sector 8 Council Districts

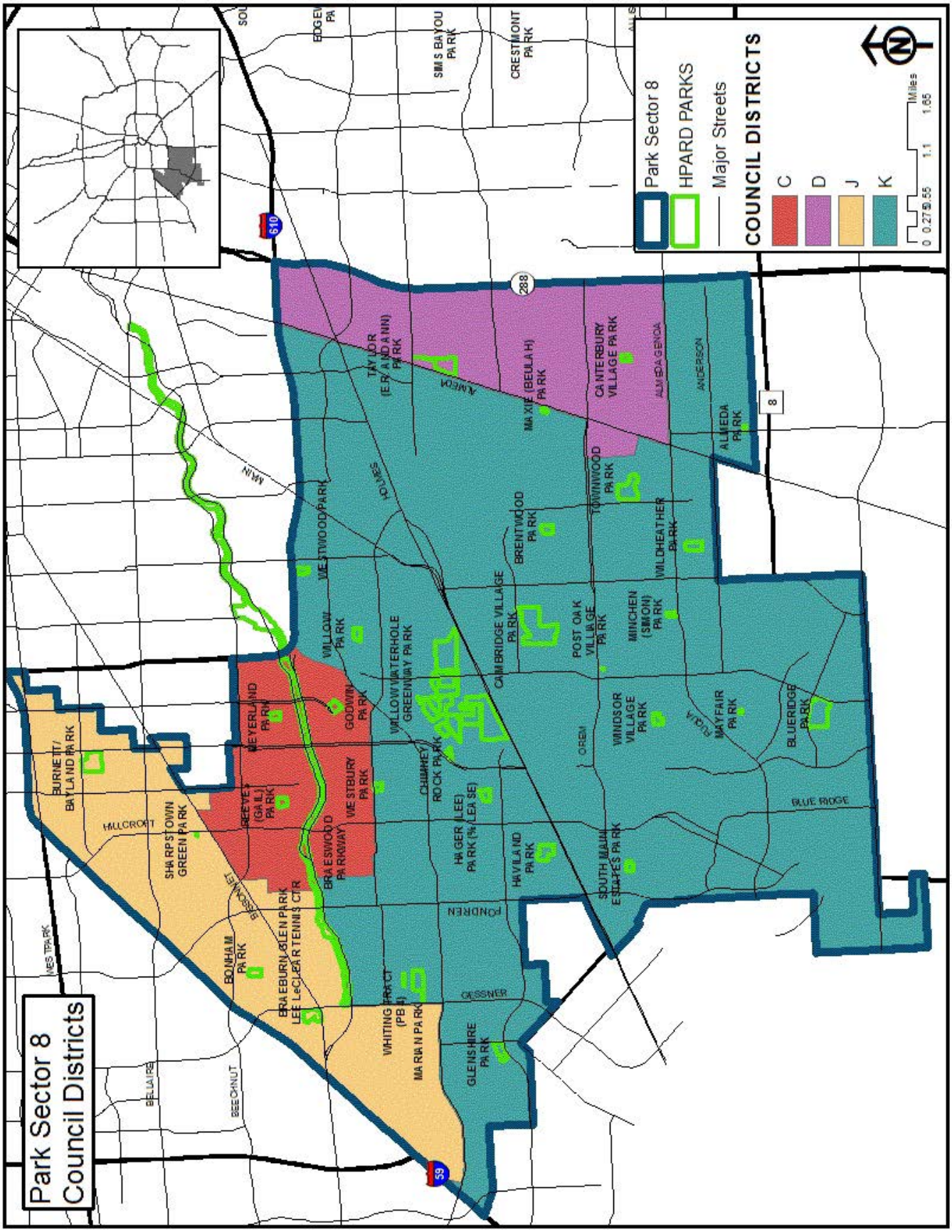


FIGURE 1: PARK SECTOR 8 COUNCIL DISTRICTS

Park Sector 8 Tax Increment Reinvestment Zone (TIRZs) and Management Districts

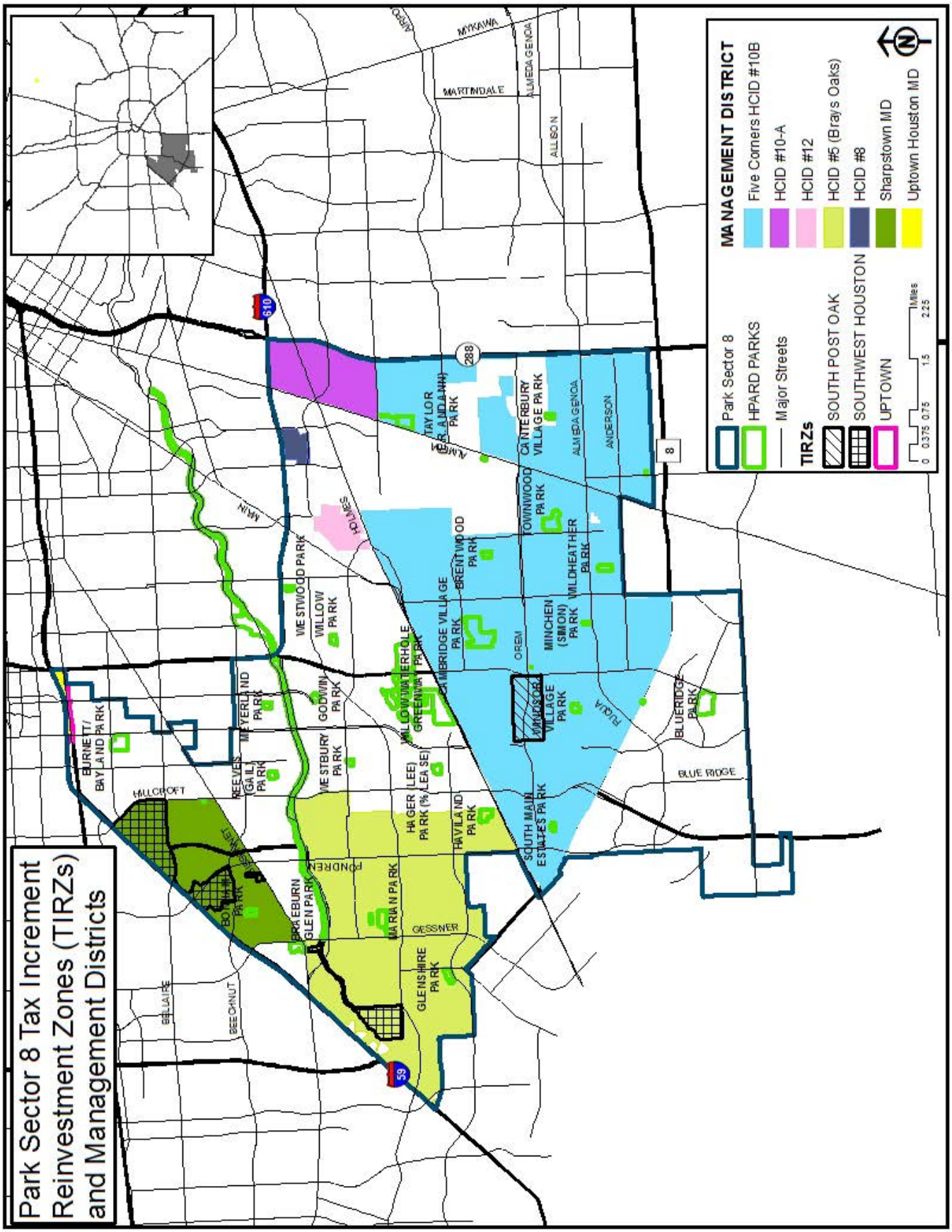


FIGURE 2: PARK SECTOR 8 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 8 Super neighborhoods

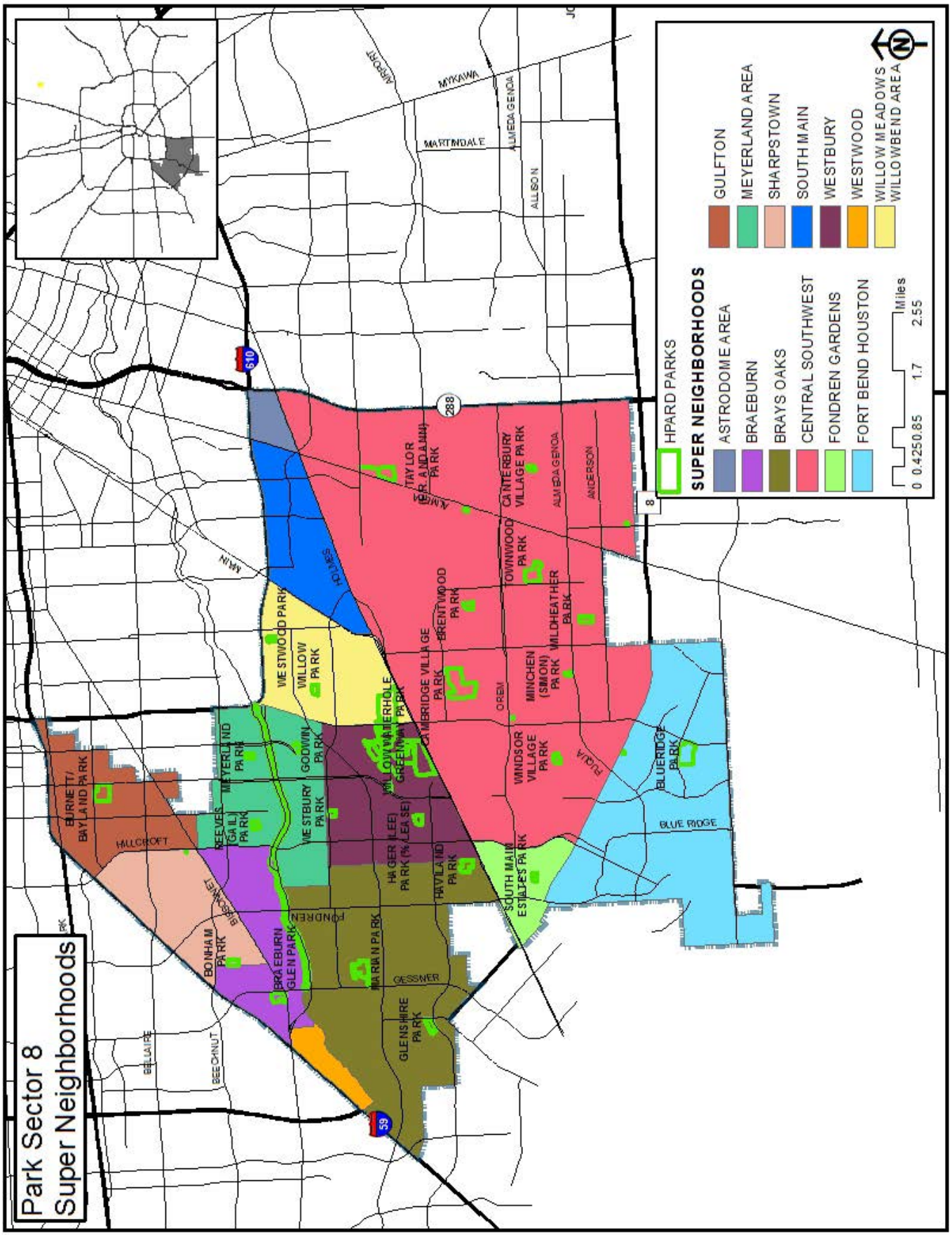


FIGURE 3: PARK SECTOR 8 SUPER NEIGHBORHOODS

Park Sector 8 Floodplain Areas

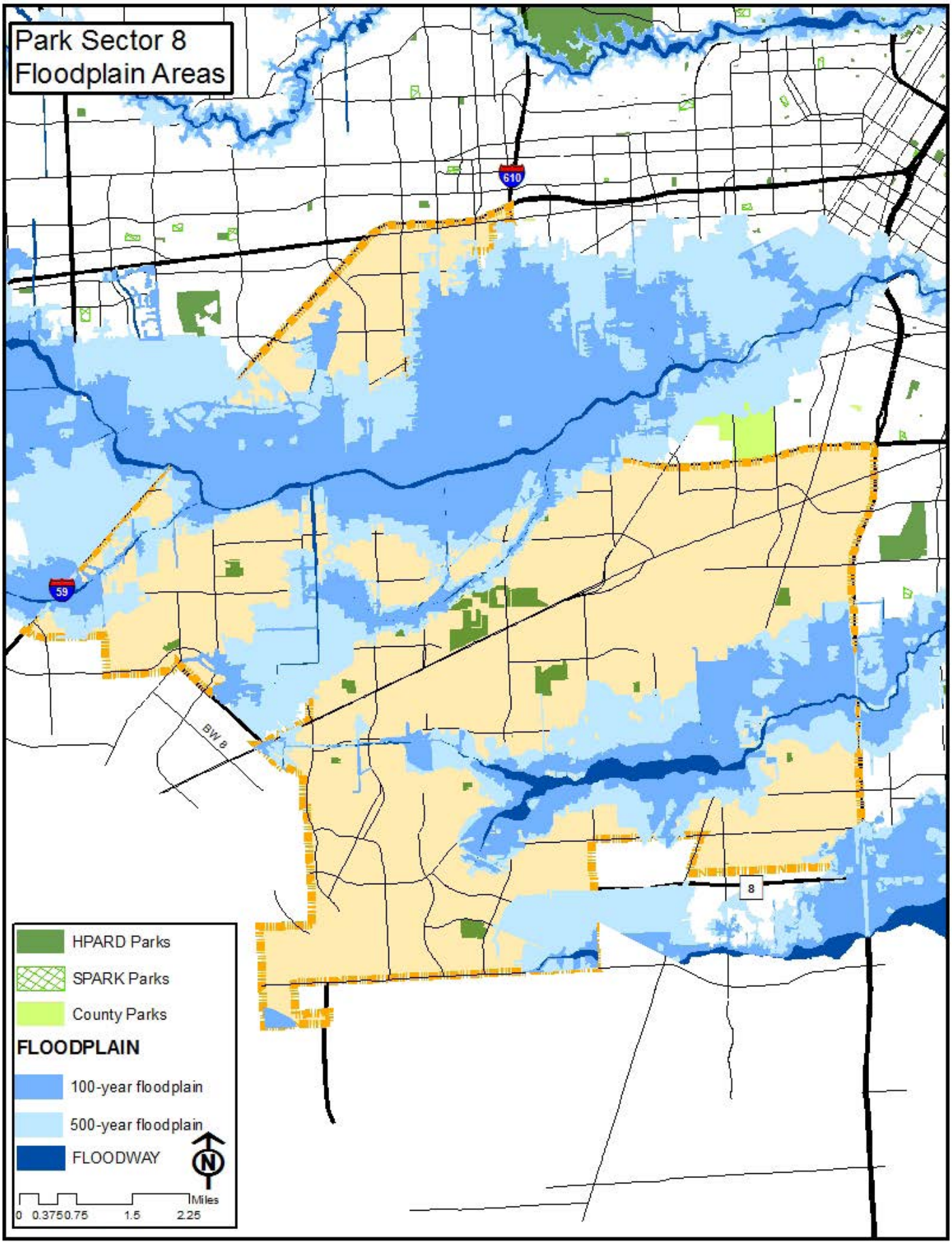


FIGURE 4: PARK SECTOR 8 FLOODPLAIN AREAS

PARK SECTOR 9

PARK SECTOR 9 SUMMARY

PARK SECTOR 9 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and TPL ParkScore™), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Acquire new parkland
2. Revitalize existing parks
3. Develop partnerships with the school system and other entities
4. Develop Neighborhood connections to parks and trails
5. Preserve environmentally sensitive areas
6. Develop new park facilities

RECOMMENDATIONS

The parks in Park Sector 9 that have the highest need for redevelopment are listed from greatest need to least need: Forum Park, Lansdale Park, Crain (E.L.) Park, and Sharpstown Park and Golf Course.

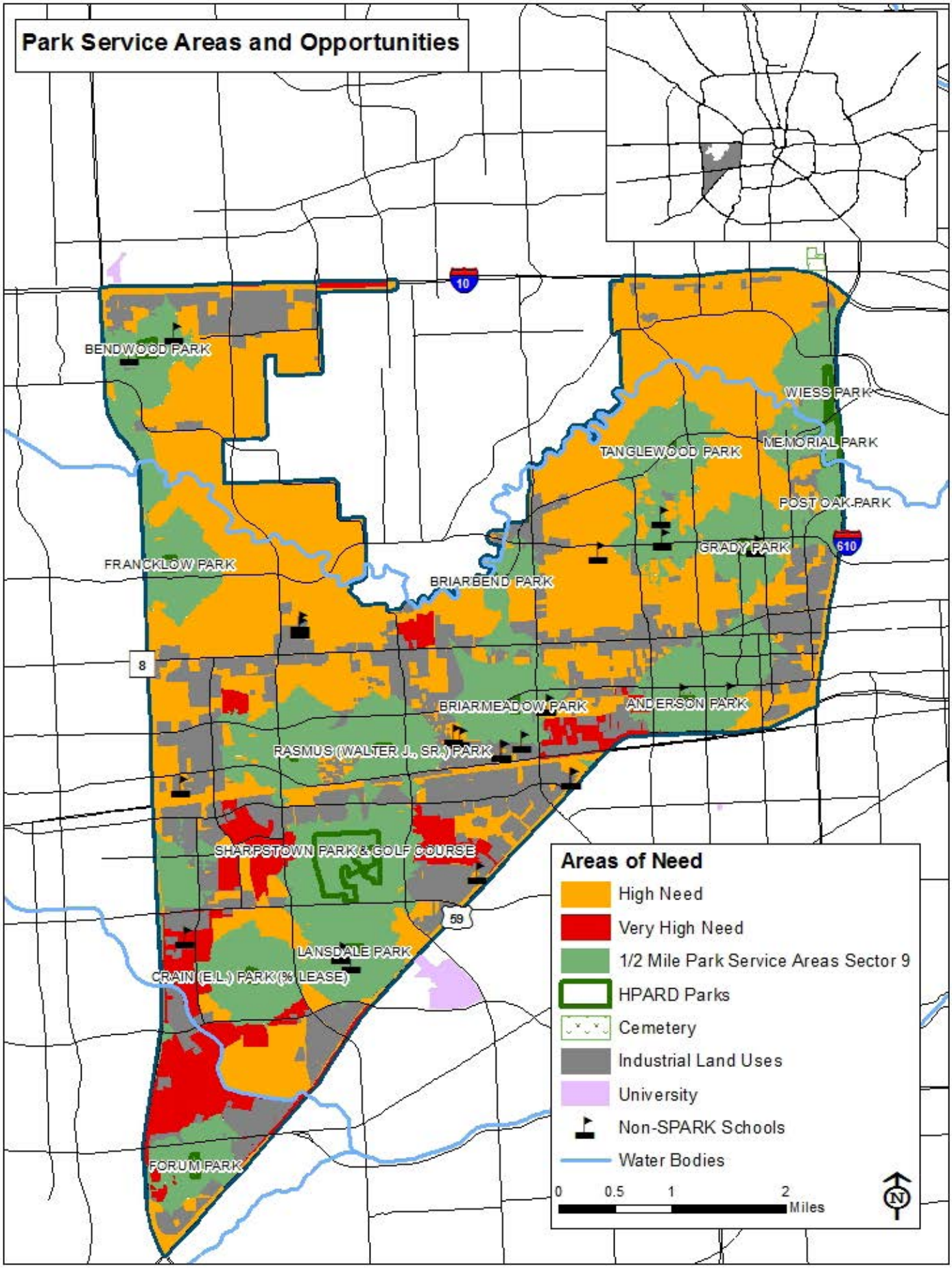
In this Park Sector 221 acres of parkland are needed. This Park Sector is the second most dense in the city and has many areas of high and very high need. Schools not participating in the SPARK School Park Program (Non-SPARK schools) should be explored as potential future partnerships for park space. Portions of this Park Sector are served by four Tax Increment Reinvestment Zones (TIRZs) and eight Management Districts, which could be pursued as partners to help meet the need for acquisition and maintenance of parks for the community. The Management and Improvement Districts and residents in the area have expressed interest in additional parkland as well as off-street Neighborhood connections to existing trails and parks.

Development is expected in the areas north of the West Park Tollway and closest to I-610.

This Park Sector is deficient in playgrounds, picnic shelters, trails, outdoor basketball courts, tennis courts, volleyball courts, dog parks, skate parks, community centers, swimming pools, spraygrounds and softball and soccer fields. The portion of Buffalo Bayou that runs through this Park Sector is not included in the BG2020 trail development program. Trail development along Buffalo Bayou should be pursued to connect the gap in the trail system along this bayou. The 2 mile gap in the trail along Brays Bayou is included in the Bayou Greenways 2020 (BG2020 Initiative) program; however, emphasis should be placed on making connections into the neighborhoods adjacent to the bayou.

In the 2014 survey, the top three priorities of residents in Park Sector 9 when asked what recreational needs existed in their Neighborhood were: hike, bike and walk trails, open space and natural areas, and playground areas. Other services and amenities that residents asked for in the write-in portion of the survey were: fitness programs, adult tennis, senior programming, swim lessons, outdoor environmental education and camping, community gardens, and adult rugby and lacrosse facilities

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Online Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector


Park Service Areas and Opportunities
10
BENDWOOD PARK
WIESS PARK
MEMORIAL PARK
TANGLEWOOD PARK
POST OAK PARK
GRADY PARK
610
FRANCKLOW PARK
BRIARBEND PARK
8
BRIARMEADOW PARK
ANDERSON PARK
RASMUS (WALTER J., SR.) PARK
SHARPSTOWN PARK & GOLF COURSE
59
LANSDALE PARK
CRAIN (E.L.) PARK (% LEASE)
FORUM PARK
Areas of Need
High Need
Very High Need
1/2 Mile Park Service Areas Sector 9
HPARD Parks
Cemetery
Industrial Land Uses
University
Non-SPARK Schools
Water Bodies
0
0.5
1
2
Miles
N

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Post Oak Park	744	Post Oak/West Loop	0.90	N/A
	Total HPARD Pocket Park Acreage		**0.90**	
Neighborhood Parks				
Anderson Park	5701	Beverly Hills	7.10	N/A
Bendwood Park	12700	Kimberly	13.54	0.49
Briarbend Park	7926	Woodway	1.27	0.20
Briarmeadow Park	7703	Richmond	4.61	0.28
Crain (E.L) Park (% Lease)	9051	Triola	6.04	0.50
Forum Park	9900	Block of Sugar Branch	6.63	0.49
Francklow Park	1300	Seagler Rd	7.60	0.50
Grady Park	1700	Yorktown	4.73	0.20
Lansdale Park	8201	Roos	8.40	0.33
Rasmus (Walter J., Sr.) Park	3721	Jeanetta	8.70	N/A
Tanglewilde Park	9631	Windswept	2.51	0.16
Tanglewood Park	5801	Woodway	4.60	0.20
Wiess Park	100	N Post Oak Lane	8.84	0.70
	Total HPARD Neighborhood Park Acreage		**84.57**	
Community Parks				
Sharpstown Park and Golf Course	6600	Harbor Town	149.27	N/A
	Total HPARD Community Park Acreage		**149.27**	
Regional Parks				
Memorial Park	6501	Memorial Drive	42.01	
	Total HPARD Regional Park Acreage		**42.01**	
	Total HPARD Park Acreage		**276.75**	
	Total HPARD Trail Length			**4.58**

EXISTING COMMUNITY CENTERS AND POOLS

Community Centers and Pool Facilities	Address	Zip Code	Agency Responsible
Lansdale Community Center	8201 Roos	77036	HPARD
Sharpstown Community Center and Pool	6501 Memorial Drive	77036	HPARD

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger).The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Approximately 50% of the area in this Park Sector is in need of parkland accessible within a ½ mile, as compared to the rest of the of the City of Houston (55%). Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains 287 acres of parkland (Harris County, HPARD & other providers). Of the 17,547 acres in this Park Sector, 2% of this acreage is parkland.
- There are approximately 203,000 residents, or almost 10% of the City of Houston population. This is also the second most dense Park Sector in the city with over 7,200 people per square mile. This Park Sector has the fourth highest Asian-American population in the city.
- The Health of Houston 2010 Survey shows that both obesity and diabetes diagnosis are lower than for the city as a whole.
- An additional 221 acres of parkland (Neighborhood and Community parks) are needed in Park Sector 9. This is based on the current population (2010 US Census) of the Park Sector and needs assessment done for Pocket, Neighborhood and Community parks (number of acres per 1,000 people).
- H-GAC population projections estimate that this area will add over 130,000 residents by 2040. To meet the parkland needs for the estimated 2040 population an additional 377 acres of parkland will be needed.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
Goal	51	20	41	17	20	4	2	2	7	4	2	8	7	20
Existing	26	10	7*	9	13	0	1	0	2	1	1	8	0	3
2015 Needed	25	10	34	8	7	4	1	2	5	3	1**	-	7	17
2040 Needed	33	14	24	11	14	3	1	-	4	3	1	2	4	14

* This number includes 2 miles of trail currently planned along Brays Bayou under the Bayou Greenways Initiative, BG2020.
**This number includes 1 sprayground at Lansdale Park that is currently under construction in 2015.

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.
2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.
3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.
4. Annual Operation & Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation per resident in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$118,000,000	221 Acres- $173,000,000	$14,000,000	$13,000,000
2040	$107,000,000	377 Acres- $295,000,000	$96,000,000	$8,000,000
TOTAL 2040	$225,000,000	598 Acres- $468,000,000	$110,000,000	$21,000,000

PARK SECTOR PROFILE 9

LOCATION AND POLITICAL BOUNDARIES

Park Sector 9 is located east of Beltway 8, west of 610, north of 59, and south of I -10.
Park Sector Size: 17,546.7 acres or 27.4 square miles
Population: 202,629 people, Density: 7,237 persons/sq. mi.
Political Boundaries within Park Sector 9:

- Council Districts: G, F, and J
- Super neighborhoods contained in this Park Sector: Memorial, Briar Forest Area, Westchase, Midwest, Greater Uptown, Sharpstown, and Westwood
- TIRZ: Memorial City (17), Southwest Houston, Uptown, and St. George Place
- Management Districts: Memorial City, Westchase, Sharpstown, Uptown Houston, Lamar Terrace Public Improvement District, and Harris County Public Improvement District 2.

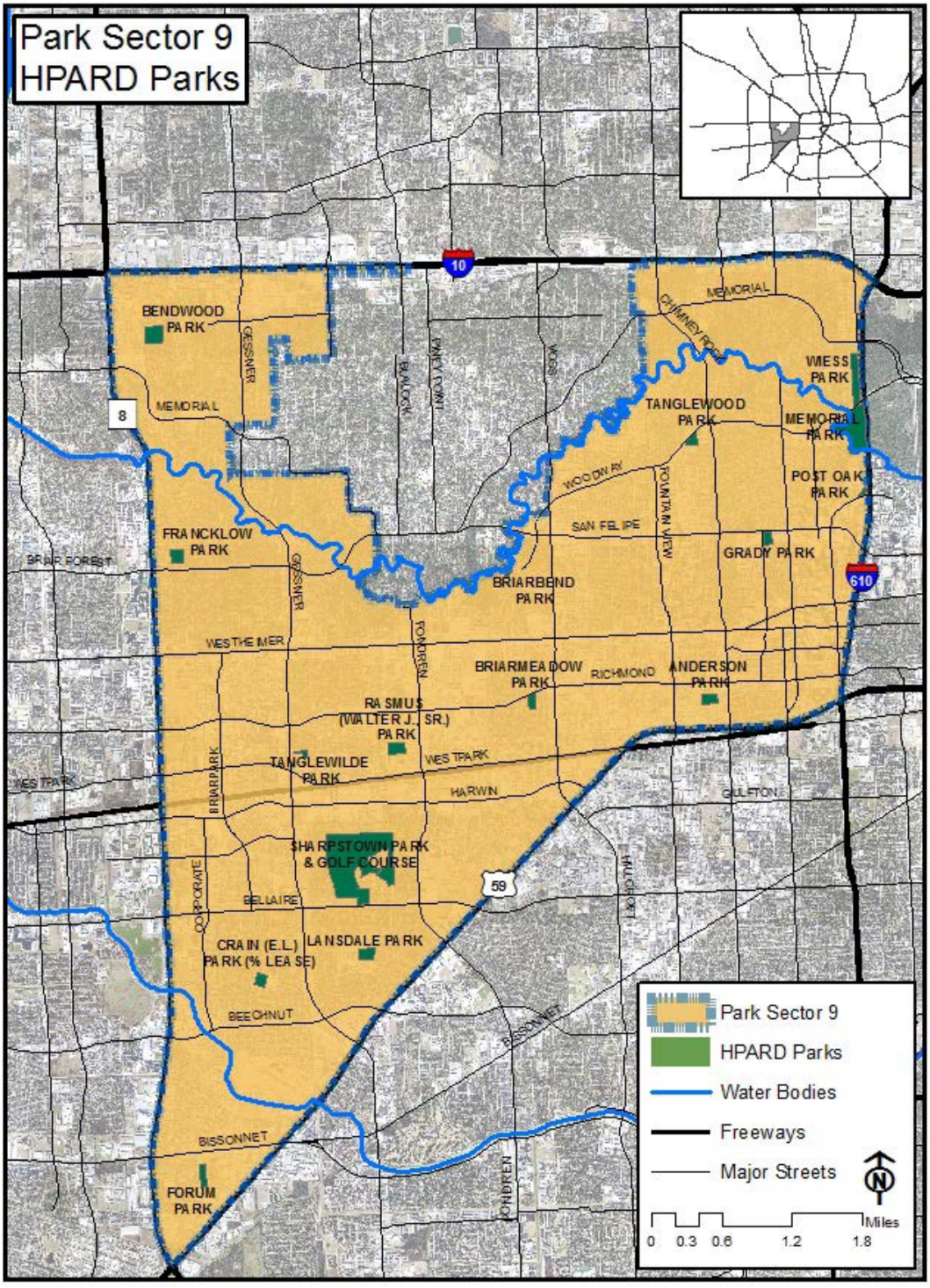


FIGURE 1. PARK SECTOR 9 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 9 Population	Park Sector 9 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**202,629**	-	2,119,831	-
Hispanic or Latino	78,372	38.7%	919,668	43.8%
Non-Hispanic White	71,500	35.3%	537,901	25.6%
Non-Hispanic Black	27,325	13.5%	485,956	23.1%
Non-Hispanic American-Indian	311	0.2%	126,098	6.1%
Non-Hispanic Asian	21,699	10.7%		
Non-Hispanic Hawaiian or Pacific Islander	78	0.0%		
Non-Hispanic Some Other Race	3,344	1.7%	26,828	1.3%

TABLE 1. PARK SECTOR 9 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains 9.56% of the population of Houston. The majority (38.7%) of residents are Hispanic/Latinos, followed by Non-Hispanic Whites (35.3%), Non-Hispanic Blacks (13.5%), and Non-Hispanic Asians (10.7%). The most populous census tracts in the Park Sector lie south of the West Park Tollway, with the less densely populated tracts being located in the north part of the Park Sector close to US 610.

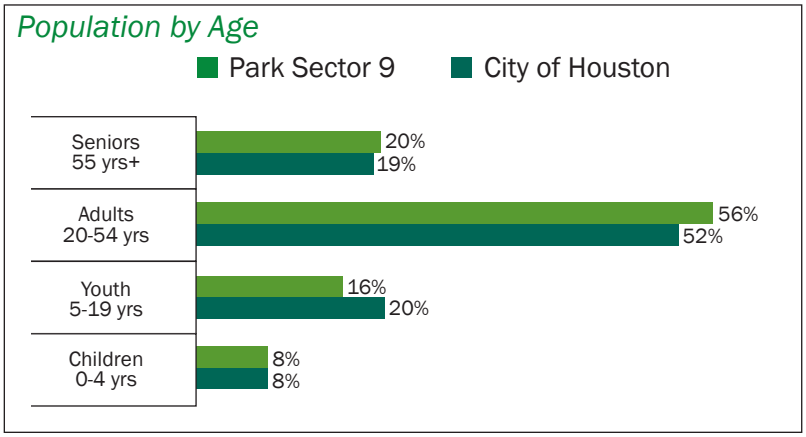


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 9 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that the percent of the population aged 5-9 years (16%) is less than that of the rest of the city (20%). There is also a greater percentage of the population aged 20-54 years in this Park Sector (56%) than in the City of Houston (52%). The remainder of the age groups in this Park Sector closely mirror the trends present throughout the entire City of Houston. These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 9 Population	PS 9 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	15,759	8%	8%	166,066	8%	8%
Youth	5-9 yrs	12,646	6%	16%	148,843	7%	21%
	10-14 yrs	9,965	5%		135,622	7%	
	15-19 yrs	9,796	5%		140,673	7%	
Adults	20-34 yrs	61,169	30%	56%	539,348	26%	52%
	35-44 yrs	29,468	14%		286,117	14%	
	45-54 yrs	23,643	12%		265,060	13%	
Senior	55-64 yrs	19,506	10%	20%	204,852	10%	19%
	65 yrs +	22,064	11%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 9 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 104,855 housing units in this Park Sector. The percent of vacant housing in Park Sector 9 (14.0%) is higher as compared to the vacancy rates for the entire city (12.3%). Home ownership for this Park Sector (28.1%) is much lower than that of the City of Houston (39.7%), conversely the percent of renters (57.7%) is almost ten percent higher than that of the rest of the city (47.9%).

Income

The median household income for this Park Sector ($46,539) is lower than that of the City of Houston ($48,322). Fifty-three percent (53%) or 48,034 of the households in this area have an income below the Houston median household income.

Educational Attainment

Within Park Sector 9 the percent (41%) of individuals 25+ years of age with a Bachelor's degree or higher is significantly higher than the relative percent for the entire City of Houston (28%). The percentage of those with no diploma or no more than a high school degree (35%) is significantly lower than the percentage (48%) of those within the same population for the City of Houston.

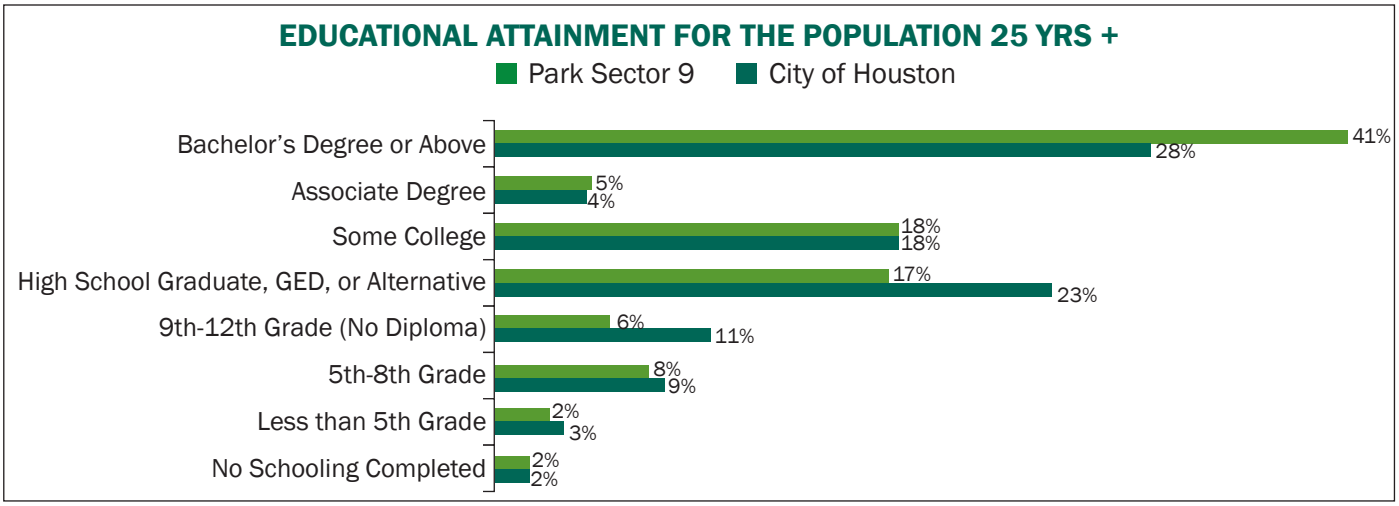


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 24.4% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that 10.3% of the adult population received a diagnosis of diabetes by a professional, which is slightly below the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that 31% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is about the same as that of the entire city (32%). The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%. Finally, the survey shows that 18% of the population does not engage in moderate physical activity at all, which is slightly higher than the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

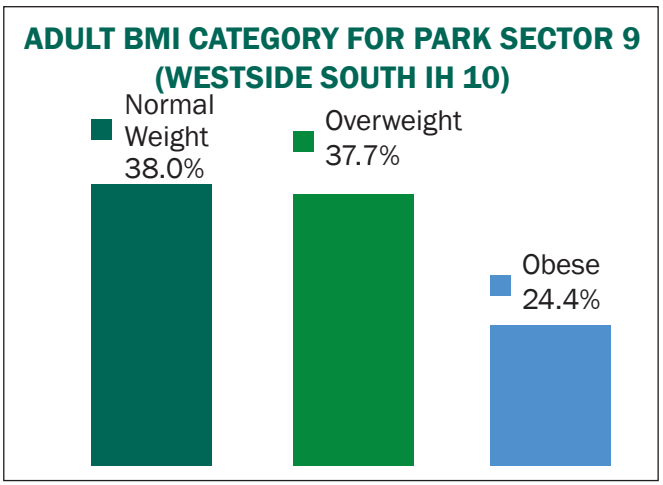


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010) - ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	18.00
1	11.40
2	17.30
3	10.90
4	11.40
5	11.60
6	4.60
7	14.80

TABLE 3. Health of Houston SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	22,905	47.2%	4,952	38.6%
Multi-Family	20,745	42.7%	1,825	14.2%
Commercial	1,456	3.0%	1,978	15.4%
Office	649	1.3%	951	7.4%
Industrial	606	1.2%	760	5.9%
Public & Institutional	93	0.2%	638	5.0%
Transportation	60	0.1%	155	1.2%
Parks & Open Space	258	0.5%	406	3.2%
Undeveloped	1,542	3.2%	1,092	8.5%
Agriculture Production	253	0.5%	74	0.6%
TOTAL	48,567		12,830	

TABLE 4. LAND USE BY DESCRIPTION (2012 HCAD)

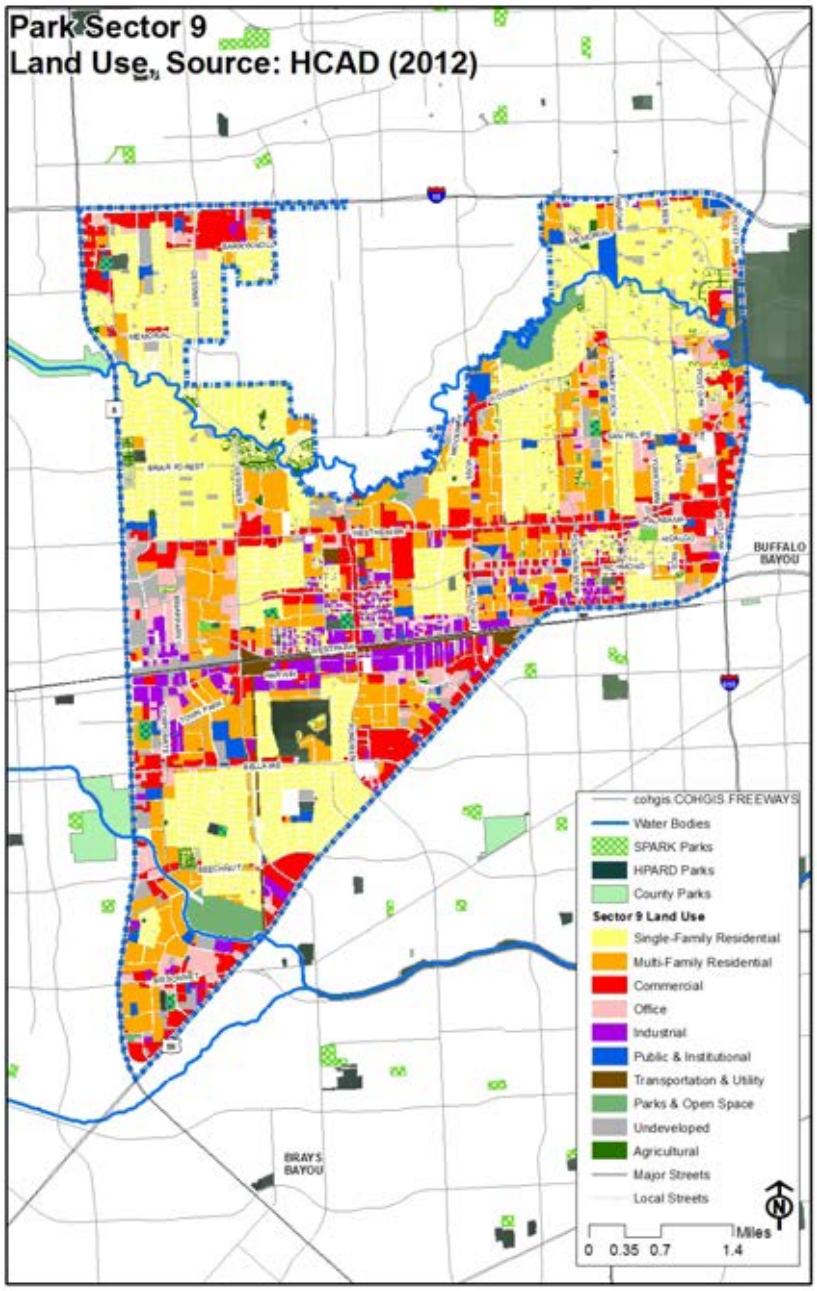


FIGURE 5. PARK SECTOR 9 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

In Park Sector 9, nearly 90% of the parcels are residential, being split amongst single-family and multi-family almost equally. Single-family parcels constitute 47.2% of all parcels and 38.6% of all acreage, while multi-family parcels comprises 42.7% of all parcels, but only 14.2% of all acreage in the Park Sector. The HCAD data also indicates that 98% of these multi-family parcels are condos and both their acreage and land value are $0. Multi-family parcels (302) with acreage and land value assigned to them are valued at around $17.4 per square foot. However, this only represents 2% of the multi-family land use.

HPARD PARKS AND TRAILS

Facility Name	Street	Address	Total Acres	Trail Length
Pocket Parks				
Post Oak Park	744	Post Oak/West Loop	0.90	N/A
Total HPARD Pocket Park Acreage			**0.90**	
Neighborhood Parks				
Anderson Park	5701	Beverly Hills	7.10	N/A
Bendwood Park	12700	Kimberly	13.54	0.49
Briarbend Park	7926	Woodway	1.27	0.20
Briarmeadow Park	7703	Richmond	4.61	0.28
Crain (E.L) Park (% Lease)	9051	Triola	6.04	0.50
Forum Park	9900	Block of Sugar Branch	6.63	0.49
Francklow Park	1300	Seagler Rd	7.60	0.50
Grady Park	1700	Yorktown	4.73	0.20
Lansdale Park	8201	Roos	8.40	0.33
Rasmus (Walter J., Sr.) Park	3721	Jeanetta	8.70	N/A
Tanglewilde Park	9631	Windswept	2.51	0.16
Tanglewood Park	5801	Woodway	4.60	0.20
Wiess Park	100	N Post Oak Lane	8.84	0.70
Total HPARD Neighborhood Park Acreage			**84.57**	
Community Parks				
Sharpstown Park and Golf Course	6600	Harbor Town	149.27	N/A
Total HPARD Community Park Acreage			**149.27**	
Regional Parks				
Memorial Park	6501	Memorial Drive	42.01	
Total HPARD Regional Park Acreage			**42.01**	
	Total HPARD Park Acreage		**276.75**	
	Total HPARD Trail Length			**4.58**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 9

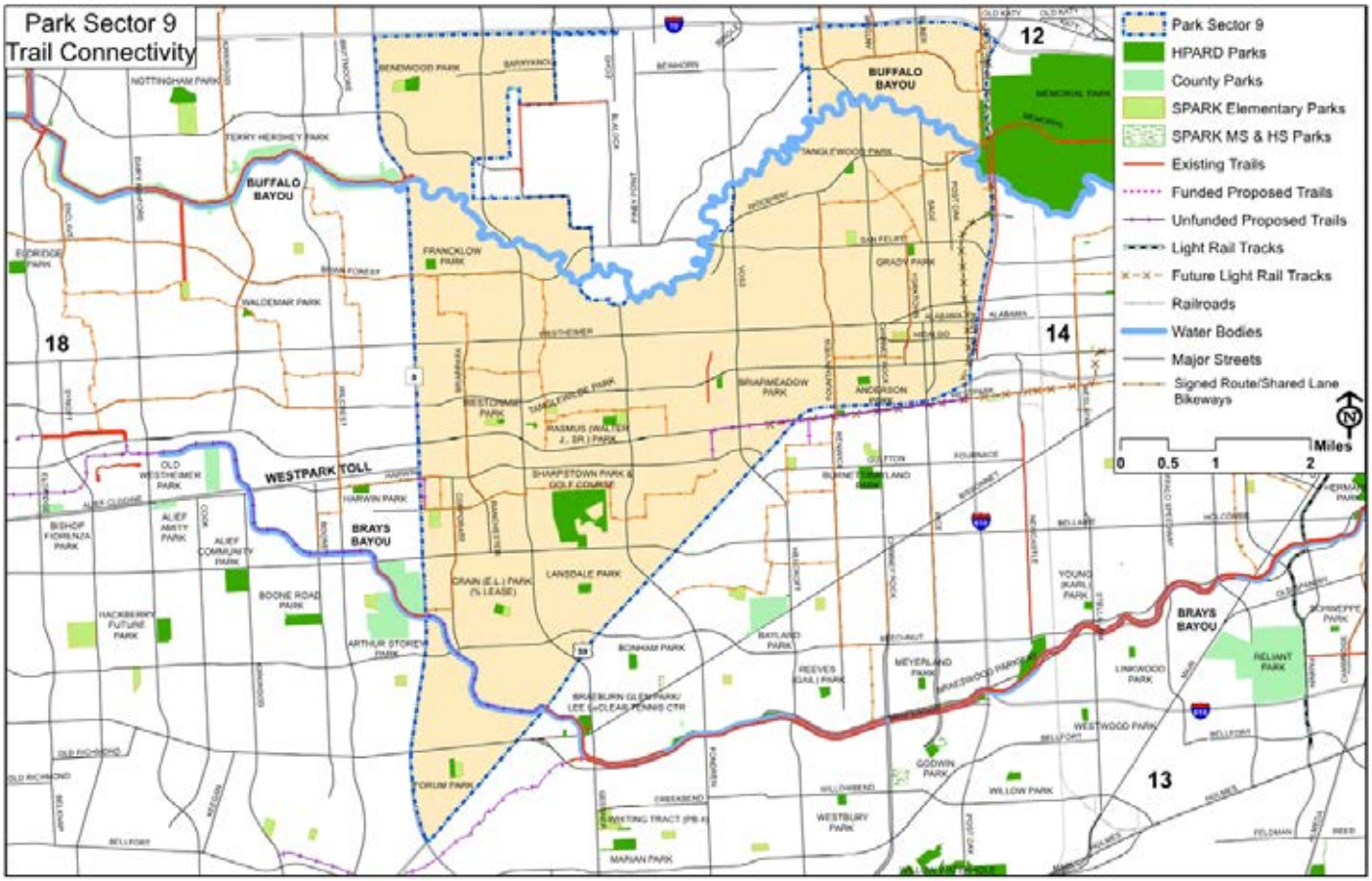


FIGURE 6. PARK SECTOR 9 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

The Houston Parks and Recreation Department operates 16 parks in the area accounting for 276.75 acres of parkland. Harris County operates 2 parks in the area accounting for 9.96 acres of parkland.

Park Sector 9 has a total of 6 miles of trail, HPARD maintains 4.58, Harris County maintains 0.44, the Quillian Center maintains 0.1 miles and there is a 0.5 mile trail along Stoney Brook Dr. that is presumably maintained by the Neighborhood or HOA in the area. According to the LOS analysis on Table 8, there is a need for an additional 35 miles of trails to meet current population standards for Park Sector 9. The Bayou Greenway Initiative (BG2020) will be building trails along Buffalo Bayou. The trails to be built are in Park Sectors 14 and 16. There is a need and an opportunity to connect Buffalo Bayou to Memorial Park existing trails and Harris County's Terry Hershey Park. Connecting this gap in the trail along the bayou would create an extensive east/west trail system and provide access to residents south of Buffalo Bayou and around the city from Cullen and Bush Parks on the west to the Houston Ship Channel on the east side of the city.

A similar gap is missing along Brays Bayou that runs through this Park Sector. Existing HPARD trails run along Braeswood Parkway in Park Sectors 8 and 13. A trail also runs along Brays Bayou through Harris County Arthur Storey Park. There is a unfunded proposed trail along Brays Bayou in this Park Sector between Braeburn Glen Park and the Sam Houston Tollway connecting to an existing Brays Bayou trail west of the Tollway. This 2.3 mile trail connector will greatly serve the population in this area giving non-motorized access from this area to the Medical Center and the Museum District and give access to a 19 mile trail system (once BG2020 Brays Bayou is completed). However, emphasis should also be placed on making connections into the neighborhoods from the trail north and south of the bayou.

County Parks and Trails

County Park				
Facility Name	**Address**	**Street**	**Total Acres**	**Trail Length**
Monsignor Bill Pickard Park	8201	Roos Road	8.40	0.34
Susan C. Kellner Pocket Park	12005	Kimberley Lane	1.56	0.10
		Total HC Park Acreage	**9.96**	
		Total HC Trail Length		**0.44**

TABLE 6. TRAILS INTERNAL TO COUNTY PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 9

SPARK Parks

There are nine Elementary Schools participating in the SPARK Program, which provides access to park space and a variety of amenities to the public. For the purpose of this Master Plan, these playgrounds will be assumed to serve the 5-12 year old population.

SPARK Parks				
Facility Name	**Address**	**Street**	**Total Acres***	**Amenities**
Bendwood Elementary School	12750	Kimberley Ln	10.06	Playground, Swing Set
Betty Best Elementary School	10000	Centre Pkwy	8.54	Playground, Trail, Basketball Pavilion
Collins Elementary School	9829	Town Park Dr	13.05	Playground, Trail, Basketball Pavilion, Multi-Purpose Field, Swing Set
E White Elementary School	9001	Triola Ln	7.82	Playground
Emerson Elementary School	9533	Skyline Dr	6.31	Playground, Soccer Field (Unlit)
Piney Point Elementary School	8921	Pagewood Ln	11.13	Playground
School at St. George Place	5450	Hidalgo St	7.86	Playground, Trail, Basketball Pavilion, Multi-Purpose Field
Sneed Elementary School	9855	Pagewood Ln	9.59	Playground, Basketball Pavilion, Multi-Purpose Field
TH Rogers Elementary School	5840	San Felipe St	9.70	Playground, Swing Set, Trail, 4 Baseball Fields (Lit), Tennis Courts
Total Acres*			**84.06**	

TABLE 7. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 9 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

Open and Green Space

To determine the level of service, the 2007 Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by The Trust for Public Land ParkScore™ Project. Table 7 above shows the level of service (LOS) based on the 2007 HPARD Master Plan recommended standards of a number of acres per 1,000 people using the 2010 Census Population. Including Harris County park acreage when calculating the LOS, an additional 0.11 acres of Pocket, 118.1 acres of Community, and 112.66 acres of Community Parks are needed in Park Sector 9, totaling 220.88 acres of these park types. The Regional park acreage is shown for this Park Sector; however, the level of service is not calculated since Regional Parks generally serve the entire city. For the purposes of this discussion, we have added 42.01 acres of Memorial Park. At this time, this part of Memorial park acts as a forested open space and not really as part of a regional park. We have added the acreage to the Community Park acreage in Table 4. Future plans for the park and Post Oak may make this much needed connection to the rest of Memorial park more obvious. Park Sector 9 only has 1 Community Park, Sharpstown Park and Golf Course, that according to acreage is considered a Community Park; however, of the 149 acres, only about 13 acres are not part of the golf course.

Park Type	HPARD Park Number	HC Park Number	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
							Population			202,629	
Pocket Park (<1 acre)	1	0	0.90	0	0	0.90	0.005 ac/1,000 people	0.00	0.00	0.11	0.11
Neighborhood Park (1-15 acres)	13	2	84.57	9.96	0	94.53	1 ac/1,000 people	0.42	0.47	118.06	118.10
Community Park (16-150 acres)	1	0	149.27	0	0	149.27	1.5 ac/1,000 people	0.94	0.94	112.66	112.66
Regional Parks (151+ acres)	1	0	42.01	0	0	42.01	8.0 ac/1,000 people				
TOTAL	16	2	276.75	9.96	0	286.71	19 acres/1,000			230.84	220.88

TABLE 8. HPARD LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

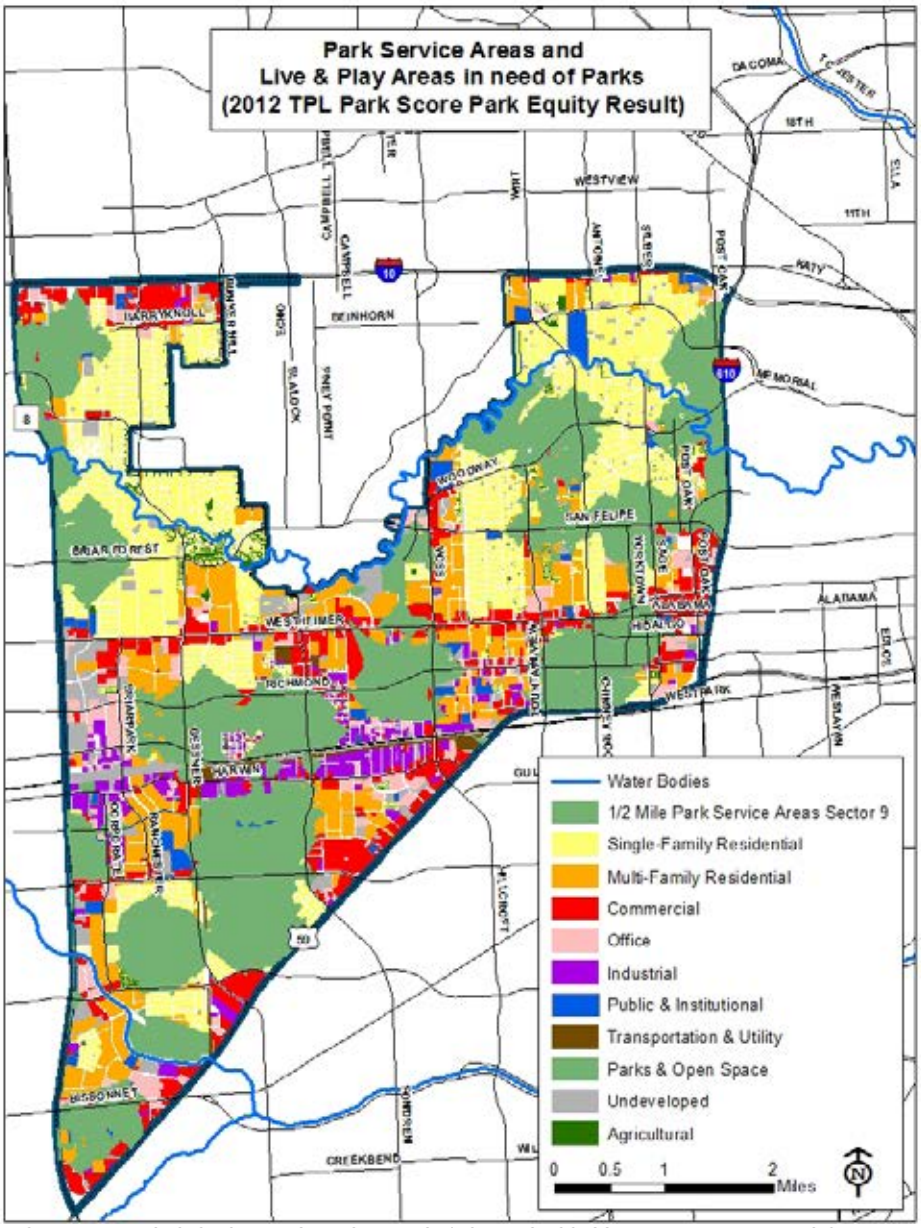
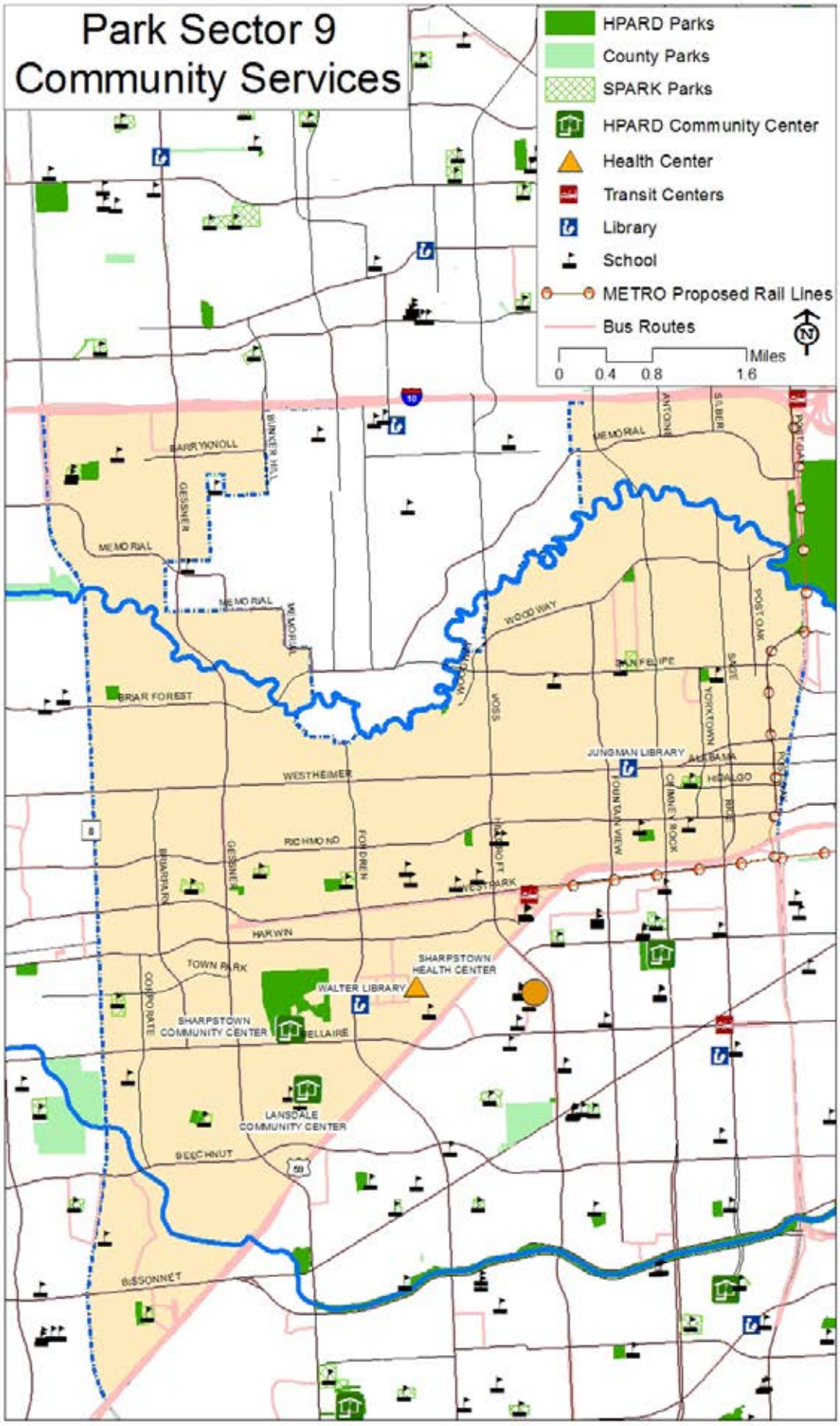


FIGURE 7. PARK SECTOR 9 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

Another way to measure the level of service provided by parks is by looking at a "walkable" distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ Project study mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project. The areas in green on the map below represent the area within ½ mile of existing parks not blocked by freeways or major roads, or service area. These parks only provide a small amount of coverage for the fringes of the Park Sector. Roughly 50% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, which is almost equal to that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector. There is a significant need for parkland in this Park Sector based on either the people per acres of parkland or the distance to a park. The highest need is south of San Felipe where there is high concentration of multi-family developments.

AMENITIES AND SERVICES



This map shows some of the community services available in this area: community centers, health centers, transit centers, schools, and libraries. Two HPARD community centers are located in this Park Sector: Lansdale and Sharpstown Community Centers. The Sharpstown Health Center, which is owned and operated by the City of Houston, is located in this Park Sector. Its services include: adult and child immunizations, HIV/STD screening and treatment, dental services, Women, Infant, and Children (WIC) Program, and family planning counseling. The libraries in this Park Sector provide computer access, community meeting space, and educational programs.

FIGURE 8. PARK SECTOR 9 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities - Level of Service

The 2007 HPARD standards by amenity have been applied to the amenities in Park Sector 9. The first column after the recommended HPARD standards indicates the level of service (LOS) accounting for HPARD facilities only, the total inventory standard accounts for facilities from all providers. Then, the standard for each amenity is compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these recommended HPARD standards, Harris County and other providers are meeting the needs of the residents for swimming pools and baseball fields. This Park Sector is deficient in playgrounds (25), picnic shelters (10), trails (36 miles), outdoor basketball courts (8), tennis courts (7), volleyball courts (4), dog parks (1), skate parks (2), community centers (5), swimming pools (3), outdoor spraygrounds (1), softball fields (7) and soccer fields (17).

	HPARD	**Harris County**	**Other Providers**	**Total**	**Recommended HPARD Standard**		**Current HPARD Level of Service**		**Current Total Inventory Level of Service**		**HPARD NEEDS** Over/ Under Service	**Total Inventory NEEDS** Over/ Under Standard
								Population	**202,629**			
Playgrounds	14	3	9	26	1	4,000	1	14,473	1	7,793	37	25
Picnic Shelters	9	1	0	10	1	10,000	1	22,514	1	20,263	11	10
Trails (developed, not natural, off-street)	4.58	0.44	0	5.02	0.2	1,000	0.02	1,000	0.02	1,000	36	36
Outdoor Basketball Courts	9	0	0	9	1	12,000	1	22,514	1	22,514	8	8
Tennis	11	0	2	13	1	10,000	1	18,421	1	15,587	9	7
Volleyball	0	0	0	0	1	50,000	0	202,629	0	202,629	4	4
Dog Parks	1	0	0	1	1	100,000	1	202,629	1	202,629	1	1
Skate Parks	0	0	0	0	1	100,000	0	202,629	0	202,629	2	2
Community Centers	2	0	0	2	1	30,000	1	101,314	1	101,314	5	5
Swimming Pools	1	0	0	1	1	50,000	1	202,629	1	202,629	3	3
Outdoor Spraygrounds	1	0	0	1	1	100,000	0	202,629	0	202,629	1	1
Baseball (Lit & Unlit)	4	0	4	8	1 field	30,000	1	50,654	1	25,329	2	-1
Softball (Lit & Unlit)	0	0	0	0	1 field	30,000	0	202,629	0	202,629	7	7
Soccer (Lit & Unlit)	2	0	1	3	1 field	10,000	1	101,314	1	67,543	18	17

TABLE 9. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 9
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- Briarmeadow Park was redeveloped in March of 2013; it received a new playground, picnic pavilion, and improvements to the tennis court and the trail.
- Crain (E.L.) Park's existing asphalt trail will be replaced by concrete. Other improvements include an amenities area adjacent to the existing pavilion, including a new swing set configuration, a new picnic area with a BBQ grill and tables, a drinking fountain and a low entry wall.
- Grady Park was redeveloped in 2015. The scope of the renovations include: a new playground, new entry portals, walking trail and lighting.
- Lansdale Park will be renovated in 2015 and will include: a new splash pad, picnic tables, planting, sidewalk improvements and lighting.
- Tanglewood Park is in the design phase to receive the following improvements in 2015-2016: new parking lot, dog run, and ball field redevelopment, and site grading.

SUPPLEMENTAL MAPS:

Park Sector 9 Council Districts

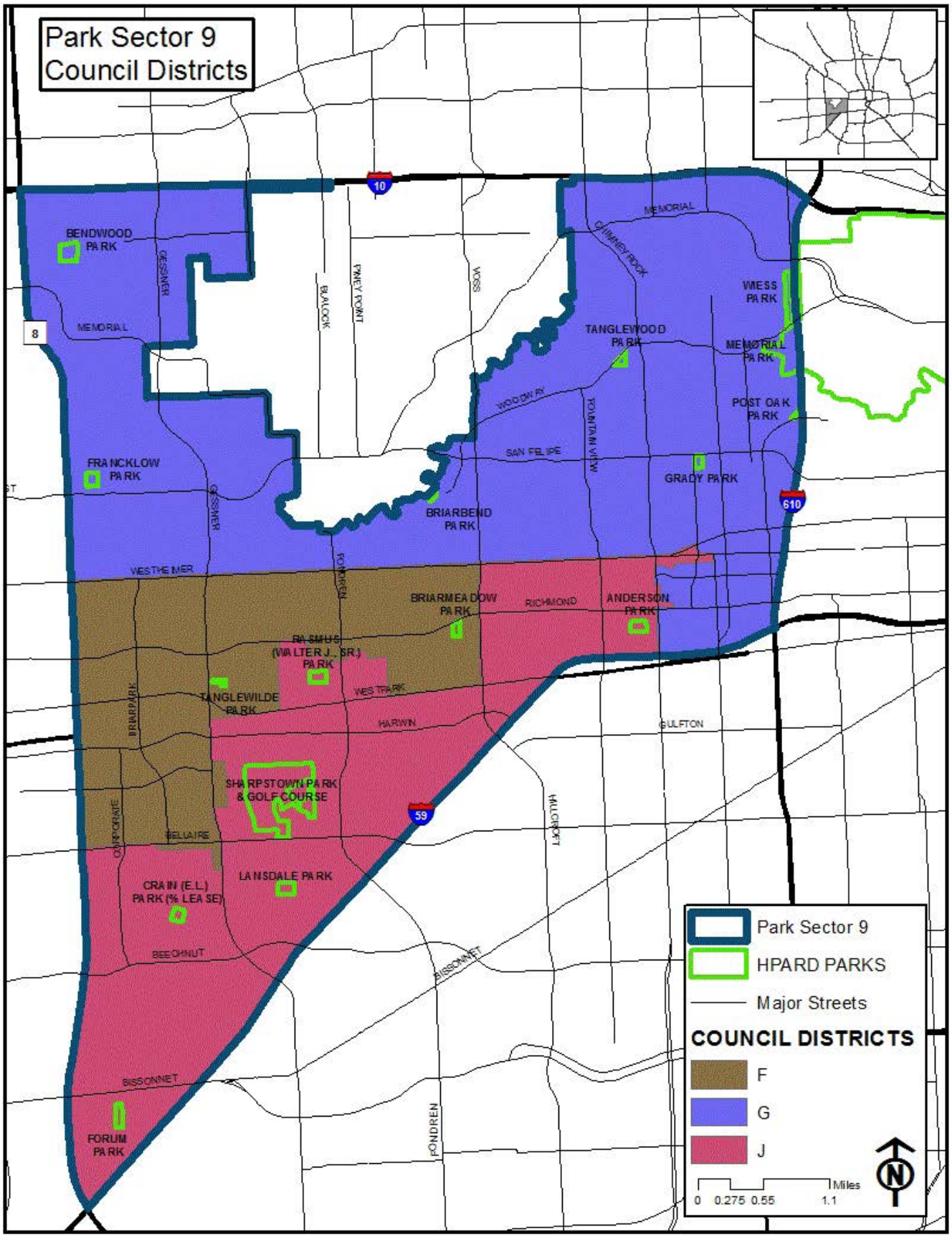


FIGURE 1: PARK SECTOR 9 COUNCIL DISTRICTS

Park Sector 9 Tax Increment Reinvestment Zone (TIRZs) and Management Districts

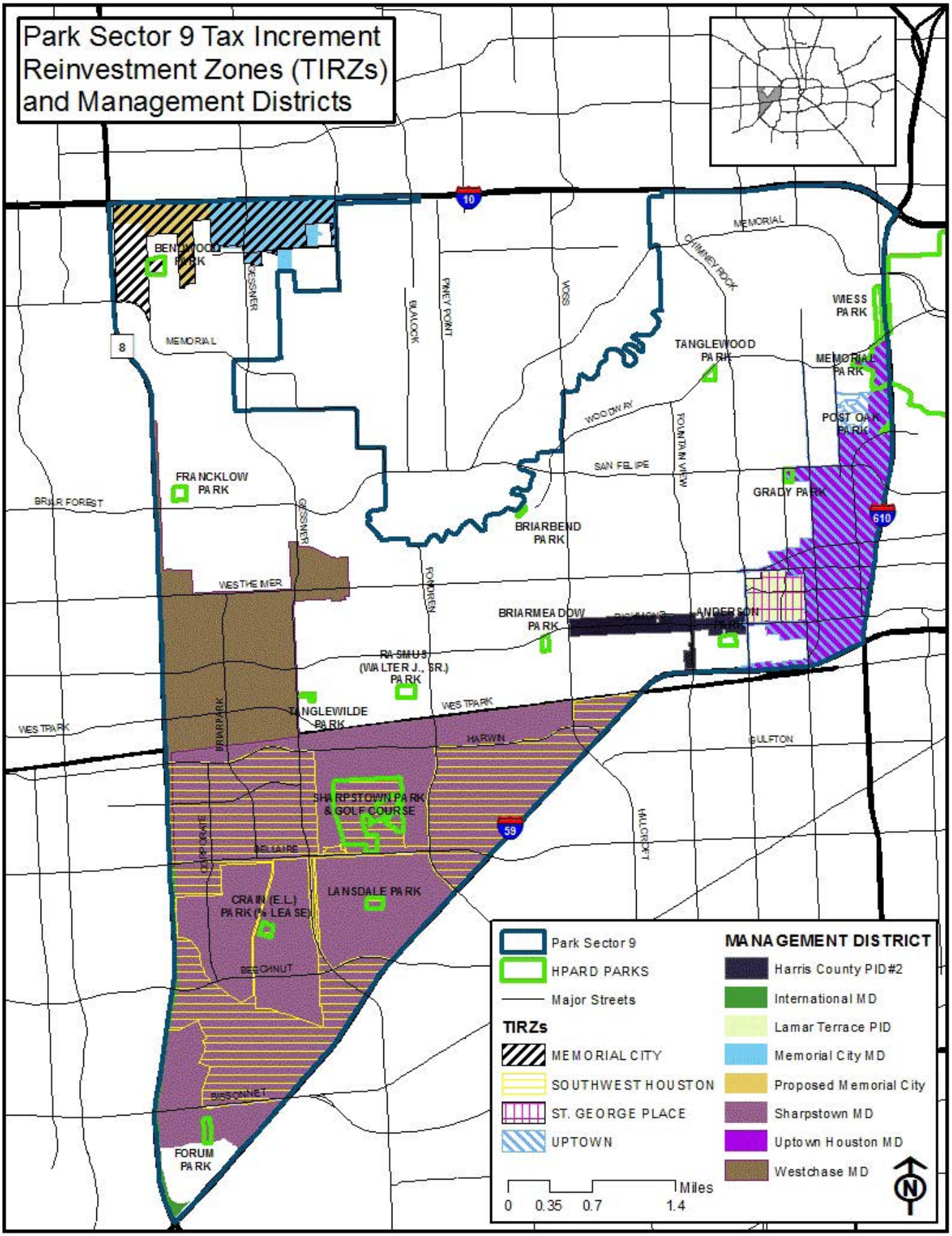


FIGURE 2: PARK SECTOR 9 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 9 Super neighborhoods

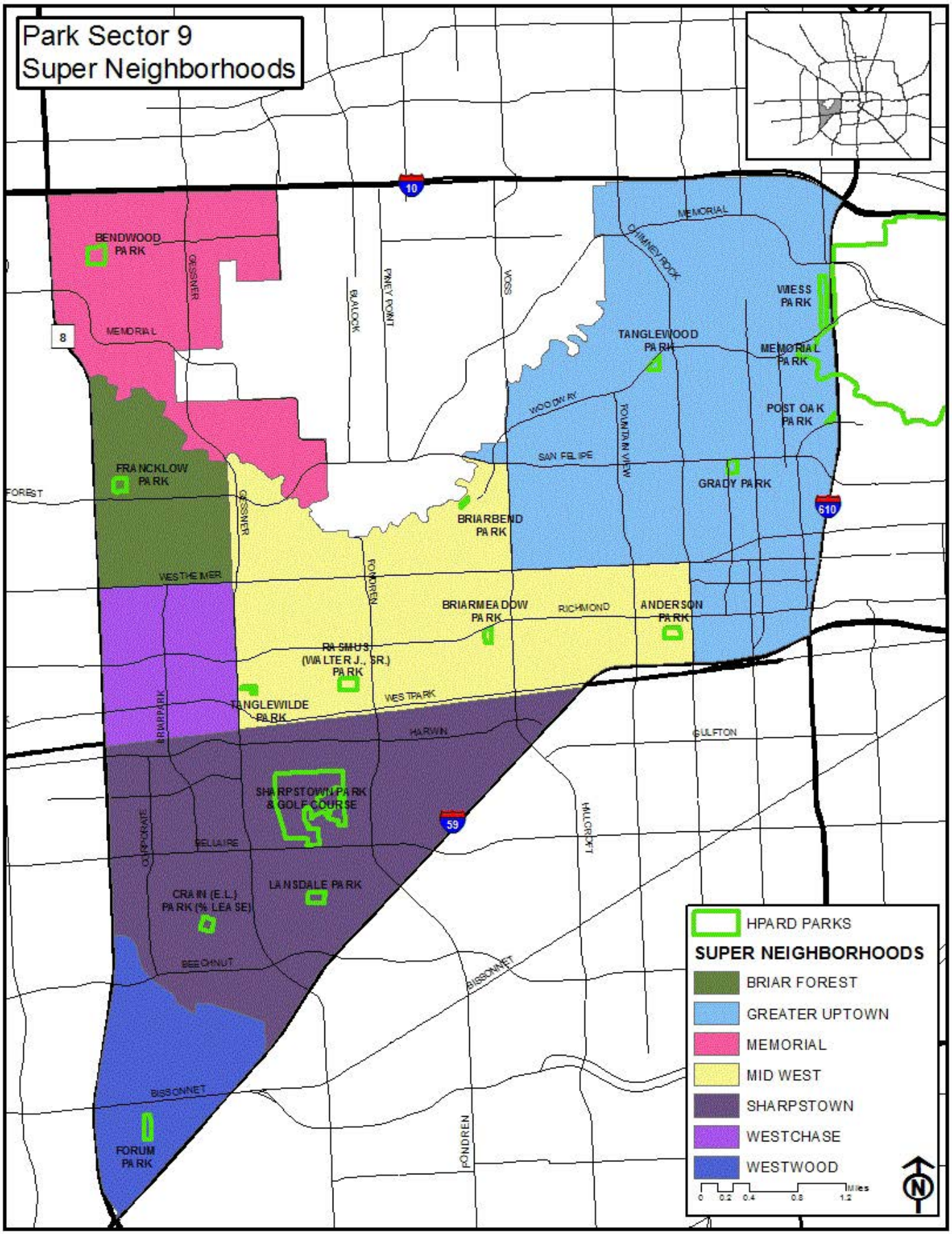


FIGURE 3: PARK SECTOR 9 SUPER NEIGHBORHOODS

Park Sector 9 Floodplain Areas

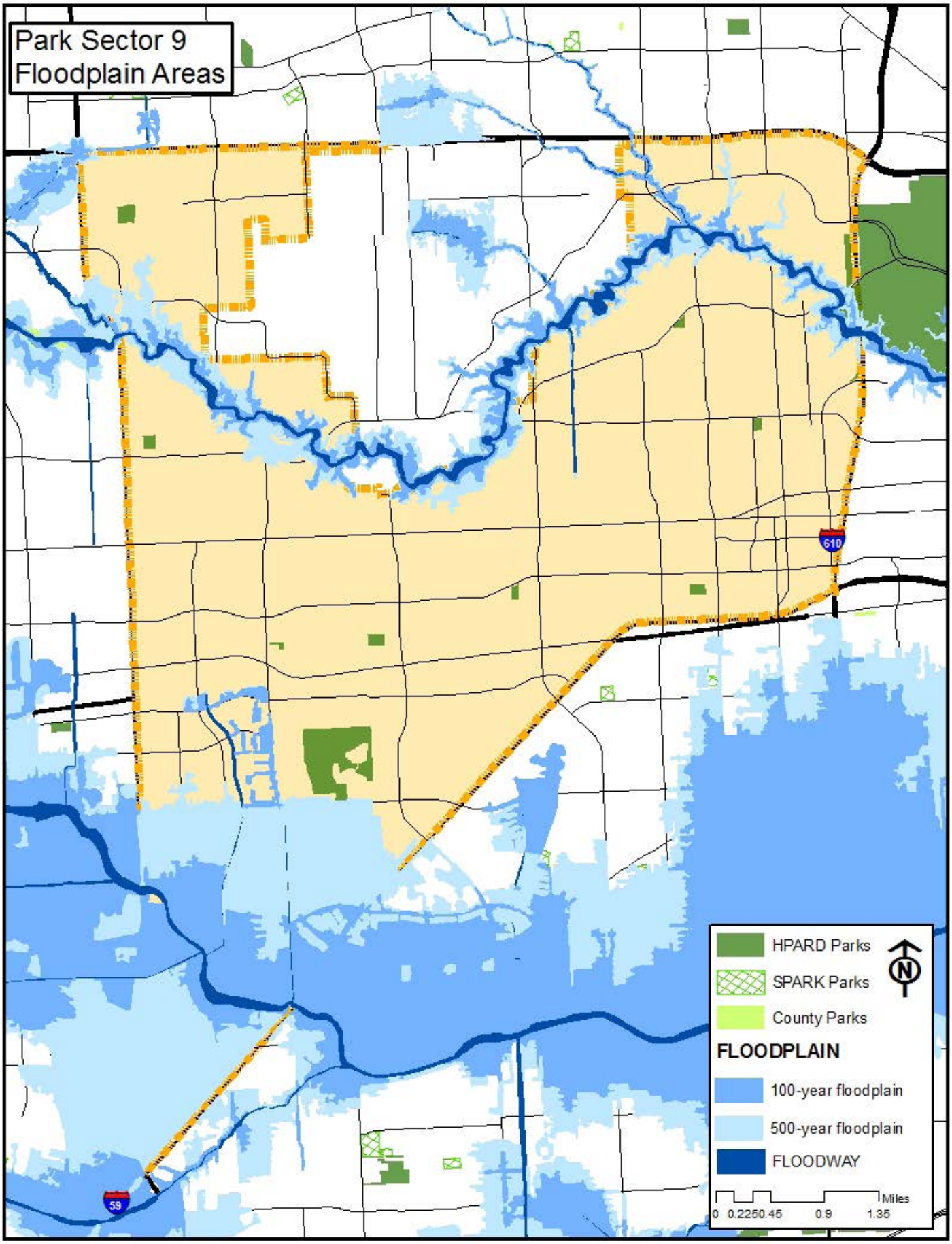


FIGURE 4: PARK SECTOR 9 FLOODPLAIN AREAS

PARK SECTOR 10

PARK SECTOR 10 SUMMARY

PARK SECTOR 10 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and TPL ParkScore™), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Acquire new parkland
2. Revitalize existing parks
3. Develop Neighborhood connections to parks and trails
4. Develop new park facilities
5. Develop partnerships with the school system and other entities
6. Preserve environmentally sensitive areas

RECOMMENDATIONS

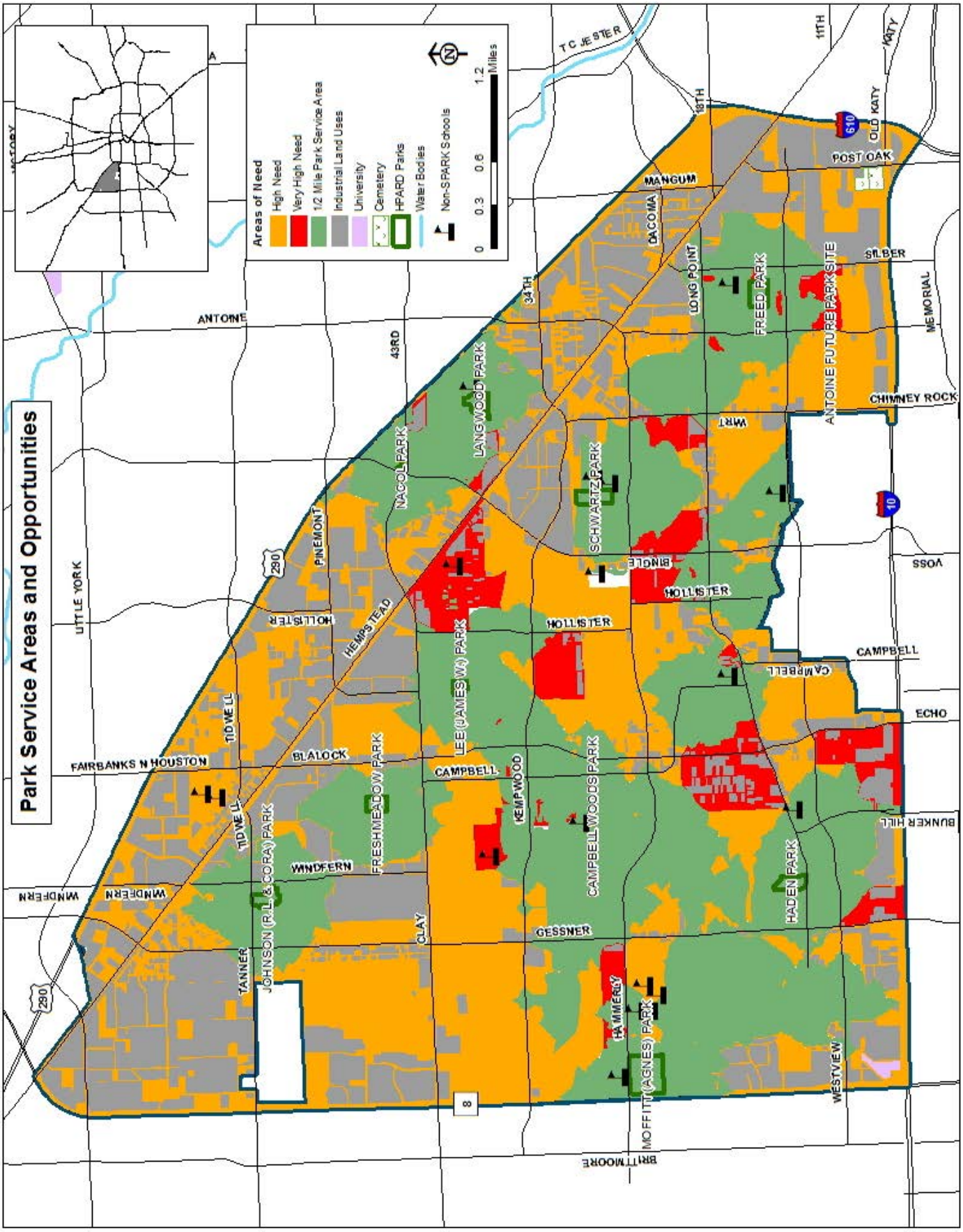
The parks in Park Sector 10 that have the highest need for redevelopment are Nacol Park and Freshmeadow Park.

In this Park Sector 142 acres of parkland are needed. There are high and very high need in the areas south of Clay and in the central portion of the Park Sector. Schools not participating in the SPARK School Park Program (Non-SPARK schools) should be explored as potential future partnerships for park space. According to the 2000 Census income data from the City of Houston (City of Houston) Housing and Community Development, almost 59% of the population in this Park Sector has incomes considered to be low to moderate. Pursuing Community Development Block Grants (CDBG) for park improvements should be a priority. In addition, CDBG funding could be considered in partnership with the SPARK program to add park space to the system and provide improvements at non-SPARK schools. A portion of the Memorial City Tax Increment Reinvestment Zone (TIRZ) is located in the boundary of this Park Sector along I-10 and BW-8 and is a potential partner for parkland acquisition in this area.

This Park Sector is deficient in picnic shelters, trails, tennis courts, volleyball courts, dog parks, skate parks, community centers, swimming pools, spraygrounds and softball and soccer fields. There are no bayous in this Park Sector; however, there are some short east-west utility corridors close to 3rd street that could present an opportunity for the development of recreational trails.

In the 2014 survey, the top three priorities of residents in Park Sector 10 when asked what recreational needs existed in their Neighborhood were: hike, bike and walk trails, open space and natural areas, and dog parks. Other services and amenities that residents asked for in the write-in portion of the survey were: fitness programs, youth nature programs, outdoor environmental education and camping, arts and crafts programs, archery programs, swim lessons, senior programming, and community gardens. According to the 2010 Health of Houston Survey, almost 32% of the population is obese compared to 30.1% for the City of Houston. This findings need to be further explored and considered as an opportunity to provide facilities, programs and services in the future and establish key partnerships.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Online Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector


Park Service Areas and Opportunities
Areas of Need
High Need
Very High Need
1/2 Mile Park Service Area
Industrial Land Uses
University
Cemetery
HPARD Parks
Water Bodies
Non-SPARK Schools
0
0.3
0.6
1.2
Miles
T C JESTER
ANTOINE
43RD
34TH
18TH
11TH
KATY
OLD KATY
POST OAK
MANGUM
DACOMA
LONG POINT
FREED PARK
SILBER
MEMORIAL
ANTOINE FUTURE PARKSITE
CHIMNEY ROCK
WRT
LANGWOOD PARK
NAGOL PARK
SCHWARTZ PARK
PINEMONT
HEMPSTEAD
HOLLISTER
BINGLE
VOSS
LEE (JAMES W.) PARK
CAMPBELL
ECHO
BLALOCK
FAIRBANKS N HOUSTON
TIDWELL
FRESHMEADOW PARK
KEMPWOOD
CAMPBELL WOODS PARK
BUNKER HILL
HADEN PARK
WINDFERN
JOHNSON (R.L. & CORA) PARK
CLAY
GESSNER
TANNER
HAMMERLY
WESTVIEW
MOFFITT (AGNES) PARK
BRITTMOORE
UTTLE YORK
290
610
10
8

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Antoine Future Park Site	1125	Antoine Dr.	0.37	N/A
Campbell Woods Park	2315	Crestdale	0.93	N/A
	Total HPARD Pocket Park Acreage		**1.30**	
Neighborhood Parks				
Freed Park	6818	Shady Villa Ln	15.06	0.35
Freshmeadow Park	4500	Campbell Rd	9.01	0.38
Haden Park	1404	Witte Rd	11.89	0.32
Johnson (R.L. and Cora) (formerly Carverdale) Park	9801	Tanner	10.58	0.25
Langwood Park	3975	Bolin	10.40	0.44
Lee (James W.) Park	9025	Pitner	5.89	0.26
Nacol Park	4418	Bingle	1.50	N/A
Schwartz Park	8203	Vogue	14.10	0.48
	Total HPARD Neighborhood Park Acreage		**78.43**	
Regional Parks				
Moffitt (Agnes) Park	10645	Hammerly	39.90	
	Total HPARD Regional Park Acreage		**39.90**	
	Total HPARD Park Acreage		**119.63**	
	Total HPARD Trail Length			**2.50**

EXISTING COMMUNITY CENTERS AND POOLS

Community Centers and Pool Facilities	Address	Zip Code	Agency Responsible
Freed Community Center	6818 Shady Villa Lane	77055	HPARD
Johnson (R.L. & Cora) Community Center	9801 Tanner	77041	HPARD
Moffitt (Agnes) Park Pool	10645 Hammerly	77043	HPARD
Schwartz Park Pool	8203 Vogue	77055	HPARD

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger). The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Approximately 38% of the area in this Park Sector is in need of parkland accessible within a ½ mile, as compared to the 55% of the population of the City of Houston who need park access. Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains 168 acres of parkland (Harris County, HPARD& other providers) and 7 miles of trails. Of the 17,189 acres in this Park Sector, 1% of this acreage is parkland.
- There are approximately 121,000 residents, 65% are Latino and there is a slightly higher percentage of children & youth.
- The Health of Houston 2010 Survey shows that 31.8% of this Park Sector is obese (compared to 32% for the City of Houston) and 42.2% of the population is overweight.
- An additional 142 acres of parkland (Community parks) are needed in Park Sector 10. The Trust for Public Land ParkScore™ map shows high and very high need in the areas south of Clay and in the central portion of the Park Sector. This is based on the current population (2010 US Census) of the Park Sector and needs assessment done for Pocket, Neighborhood and Community parks (number of acres per 1,000 people).
- H-GAC population projections estimate that this area will add over 140,000 residents by 2040. To meet the parkland needs for the estimated 2040 population an additional 356 acres of parkland will be needed.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	33	12	24	10	12	2	2	2	4	3	2	5	4	12
2015 Existing	33	9	7	10	4	1	0	0	2	2	0	5	1	3
2015 Needed	-	3	17	-	8	1	2	2	2	1	2	-	3	9
2040 Needed	30	15	29	12	15	3	2	1	5	3	2	3	5	15

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.
2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.
3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.
4. Annual Operation & Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation per resident in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$38,000,000	142 Acres- $42,000,000	$12,000,000	$7,000,000
2040	$122,000,000	356 Acres- $105,000,000	$72,000,000	$9,000,000
TOTAL 2040	$160,000,000	498 Acres- $147,000,000	$84,000,000	$16,000,000

PARK SECTOR PROFILE 10

LOCATION AND POLITICAL BOUNDARIES

Park Sector 10 is located east of Beltway 8, northwest of 290, and north of I-10
Park Sector Size: 17,189 acres or 27 square miles
Population: 121,412 people, Density: 4,496 persons/sq. mi.
Political Boundaries within Park Sector 10:

- Council Districts A
- Super neighborhoods contained in this Park Sector: Carverdale, West Branch, Spring Branch West, Spring Branch Central, Spring Branch North, Fairbanks/ Northwest Crossing, Langwood, Spring Branch East, Lazy Brook/ Timbergrove
- TIRZ: Memorial City
- Management Districts: Memorial City, Spring Branch, and Near Northwest

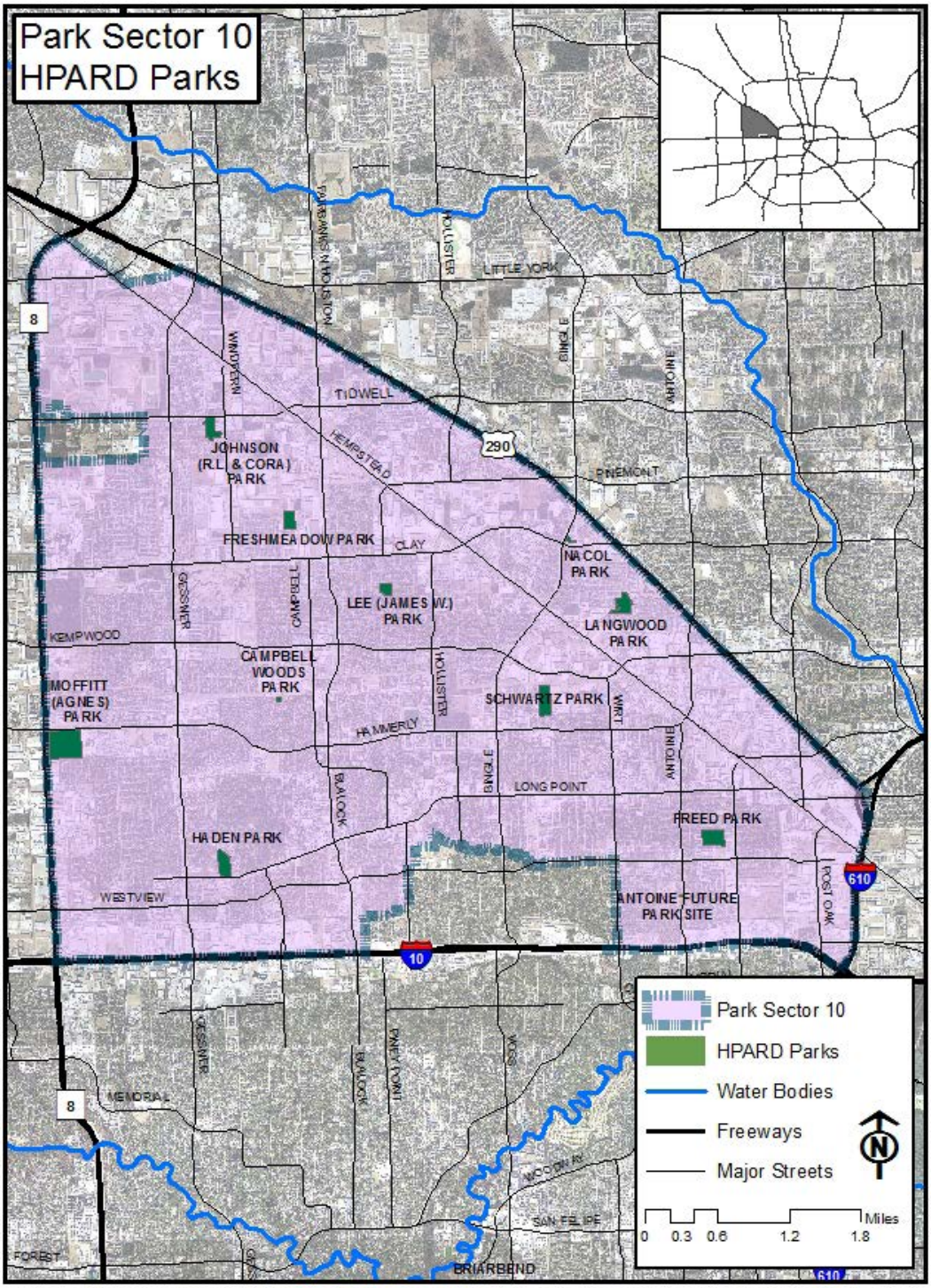


FIGURE 1. PARK SECTOR 10 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 10 Population	Park Sector 10 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**121,412**	-	2,119,831	-
Hispanic or Latino	78,387	64.6%	919,668	43.8%
Non-Hispanic White	30,175	24.9%	537,901	25.6%
Non-Hispanic Black	6,406	5.3%	485,956	23.1%
Non-Hispanic American-Indian	178	0.1%	126,098	6.1%
Non-Hispanic Asian	5,089	4.2%		
Non-Hispanic Hawaiian or Pacific Islander	30	0.0%		
Non-Hispanic Some Other Race	1,147	0.9%	26,828	1.3%

TABLE 1. PARK SECTOR 10 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains about 5.7% of the population of Houston; the majority (65%) of the residents are Hispanic/Latino, followed by Non-Hispanic Whites (25%), Non-Hispanic Blacks (5%) and Non-Hispanic Asians (4%). The least dense portions of the Park Sector are those areas closer to IH-10.

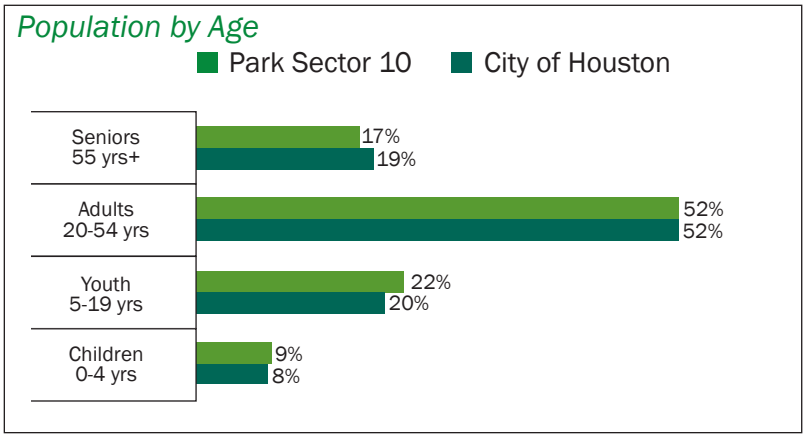


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 10 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that the percent of population under 19 (31%) is higher than the percentage of the rest of the city (28%). Further breakdown of the age groups, as shown in Figure 2., reveals that, the distribution of age groups in this Park Sector generally mirrors the same pattern as the entire City of Houston. These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 10 Population	PS 10 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	10,991	9%	9%	166,066	8%	8%
Youth	5-9 yrs	9,928	8%	22%	148,843	7%	21%
	10-14 yrs	8,680	7%		135,622	7%	
	15-19 yrs	8,479	7%		140,673	7%	
Adults	20-34 yrs	31,189	25%	52%	539,348	26%	52%
	35-44 yrs	17,071	14%		286,117	14%	
	45-54 yrs	14,956	12%		265,060	13%	
Senior	55-64 yrs	10,547	9%	17%	204,852	10%	19%
	65 yrs +	10,876	9%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 10 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 45,450 housing units in this Park Sector. The percent of vacant housing in Park Sector 10 (11.5%) is lower than the vacancy rates for the entire city (12.3%). Home ownership for this Park Sector (38%) is roughly equivalent to the City of Houston's home ownership rate (39.7%); similarly, the share of renters (50.1%) is just above that of the city's as a whole (47.1%).

Income

The median household income for this Park Sector ($39,127) is lower than that of the City of Houston ($48,322). In this Park Sector sixty-one percent (61%) or 24,914 households in this area have an income below the Houston median household income. According to the City of Houston Housing and Community Development data (low mod derived from 2000 Census as per federal regulations) 58.5% of the population is below low to moderate income levels and therefore, this area could qualify for Community Development Block Grant (CDBG) funds.

Educational Attainment

Within Park Sector 10 the percent (20%) of individuals 25+ years of age with a Bachelor's degree or above is noticeably lower than the relative percent for the entire City of Houston (28%). Conversely, the percentage of those within this Park Sector without a high school degree (36%) is markedly higher than the same population for the City of Houston (25%).

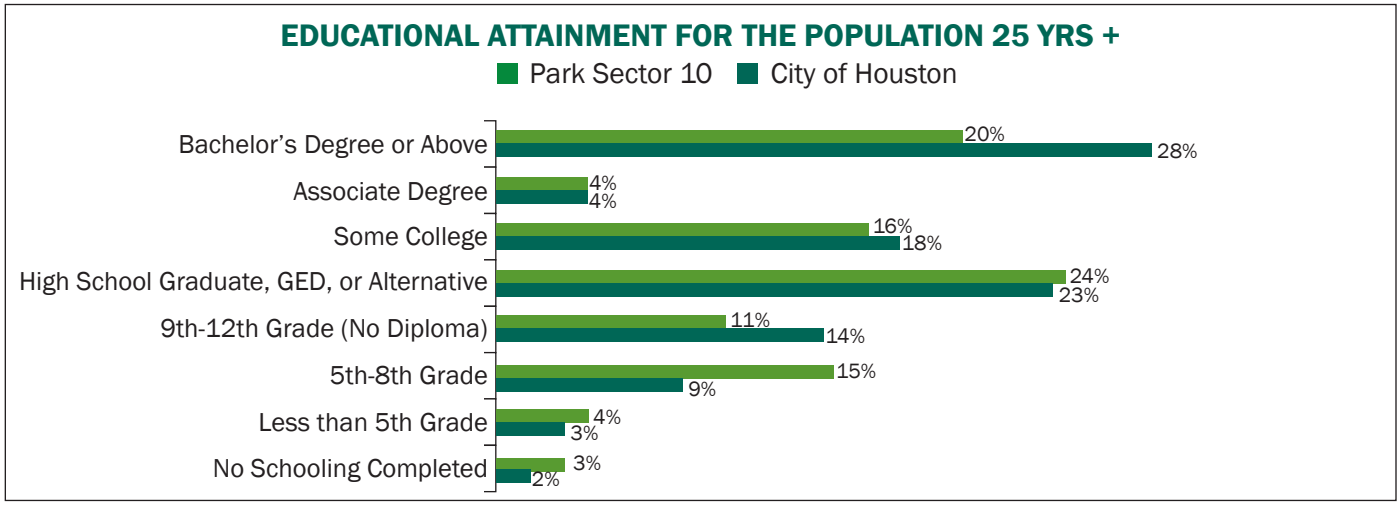


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 31.8% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that 8.1% of the adult population received a diagnosis of diabetes by a professional, which is slightly below the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that almost 39% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is higher than that of the entire city (32%). The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%. Finally, the survey shows that 18.5% of the population does not engage in moderate physical activity at all, which is lower than the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

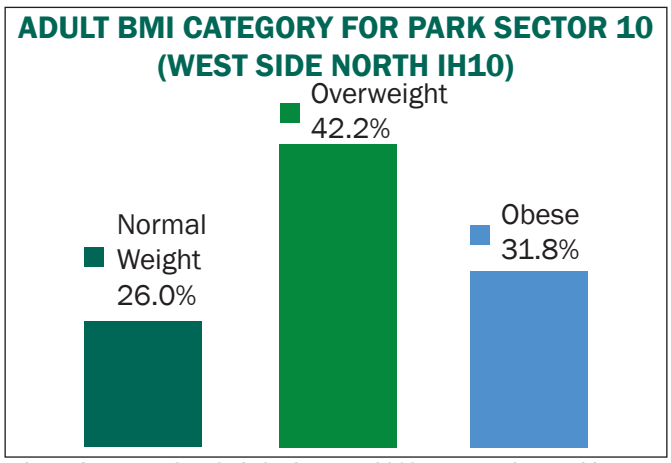


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	18.50
1	4.80
2	20.40
3	12.50
4	4.80
5	12.00
6	5.00
7	21.90

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	20,851	74%	4,510	33%
Multi-Family	2,130	8%	850	6 %
Commercial	942	3%	1,253	9%
Office	198	1%	413	3%
Industrial	1,565	6%	3,855	28%
Public & Institutional	326	1%	1,065	8%
Transportation	85	0.3%	212	2%
Parks & Open Space	250	1%	478	3%
Undeveloped	1,724	6%	1,079	8%
Agriculture Production	91	0.3%	130	1%
TOTAL	28,162	100%	13,846	100%

TABLE 4. LAND USE BY DESCRIPTION (2012 HCAD)

Single-family land use constitutes the majority of Park Sector 10, being 74% of all parcels and 33% of all acreage. Industrial use, while comprising only 6% of all parcels, accounts for 28% of all acreage in the Park Sector. The majority of the industrial parcels are concentrated along the Hempstead Highway and the railroad corridor. Commercial land use also accounts for 9% of all acreage and 3% of all parcels in this Park Sector. There is also a significant amount of undeveloped land in this Park Sector; 6% of all parcels and 8% of all acreage are undeveloped tracts.

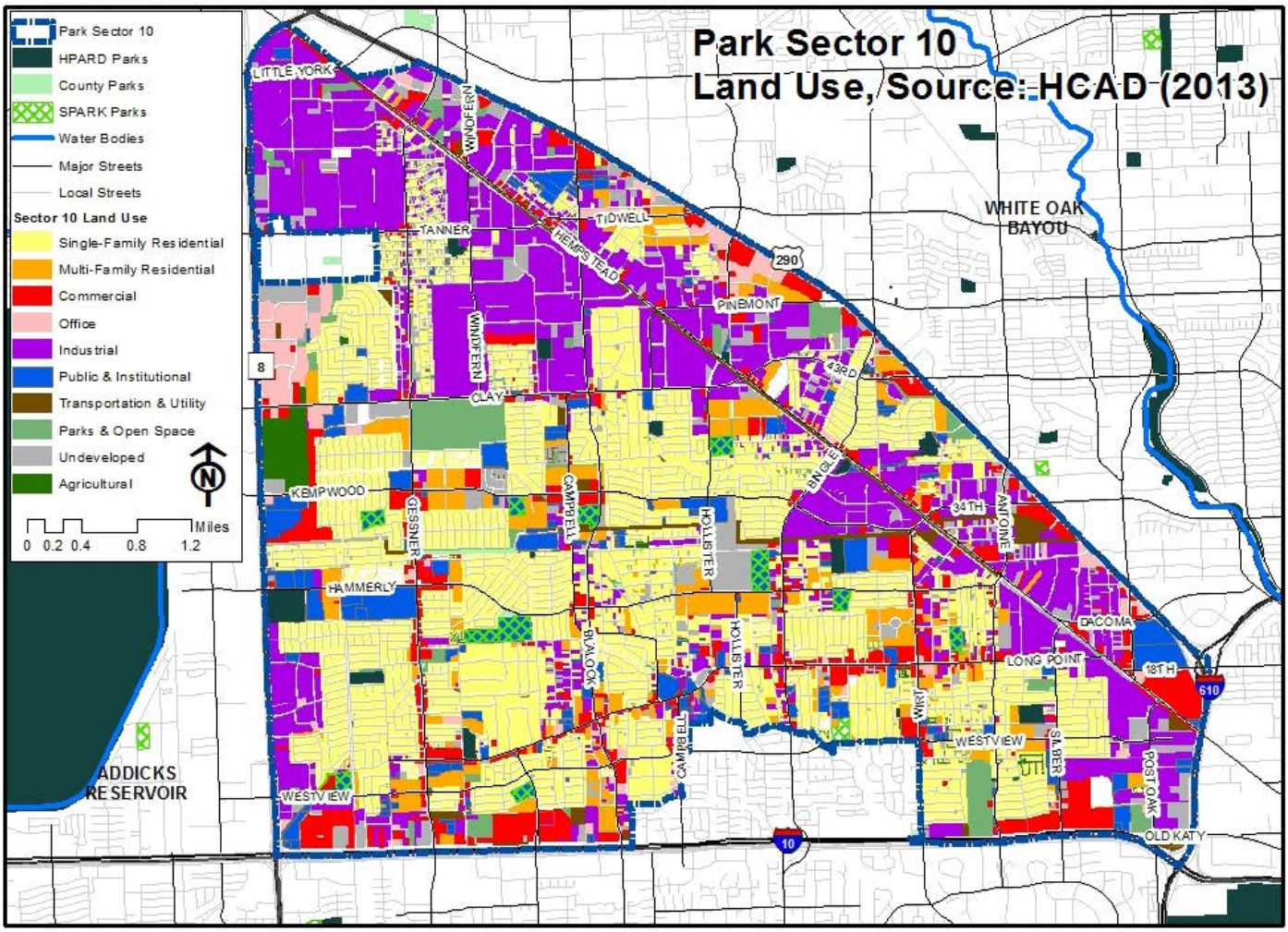


FIGURE 5. PARK SECTOR 10 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

HPARD PARKS AND TRAILS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Antoine Future Park Site	1125	Antoine Dr.	0.37	N/A
Campbell Woods Park	2315	Crestdale	0.93	N/A
Total HPARD Pocket Park Acreage			**1.30**	
Neighborhood Parks				
Freed Park	6818	Shady Villa Ln	15.06	0.35
Freshmeadow Park	4500	Campbell Rd	9.01	0.38
Haden Park	1404	Witte Rd	11.89	0.32
Johnson (R.L. and Cora) (formerly Carverdale) Park	9801	Tanner	10.58	0.25
Langwood Park	3975	Bolin	10.40	0.44
Lee (James W.) Park	9025	Pitner	5.89	0.26
Nacol Park	4418	Bingle	1.50	N/A
Schwartz Park	8203	Vogue	14.10	0.48
Total HPARD Neighborhood Park Acreage			**78.43**	
Community Parks				
Moffitt (Agnes) Park	10645	Hammerly	39.90	N/A
Total HPARD Community Park Acreage			**39.90**	
	Total HPARD Park Acreage		**119.63**	
	Total HPARD Trail Length			**2.5**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 10

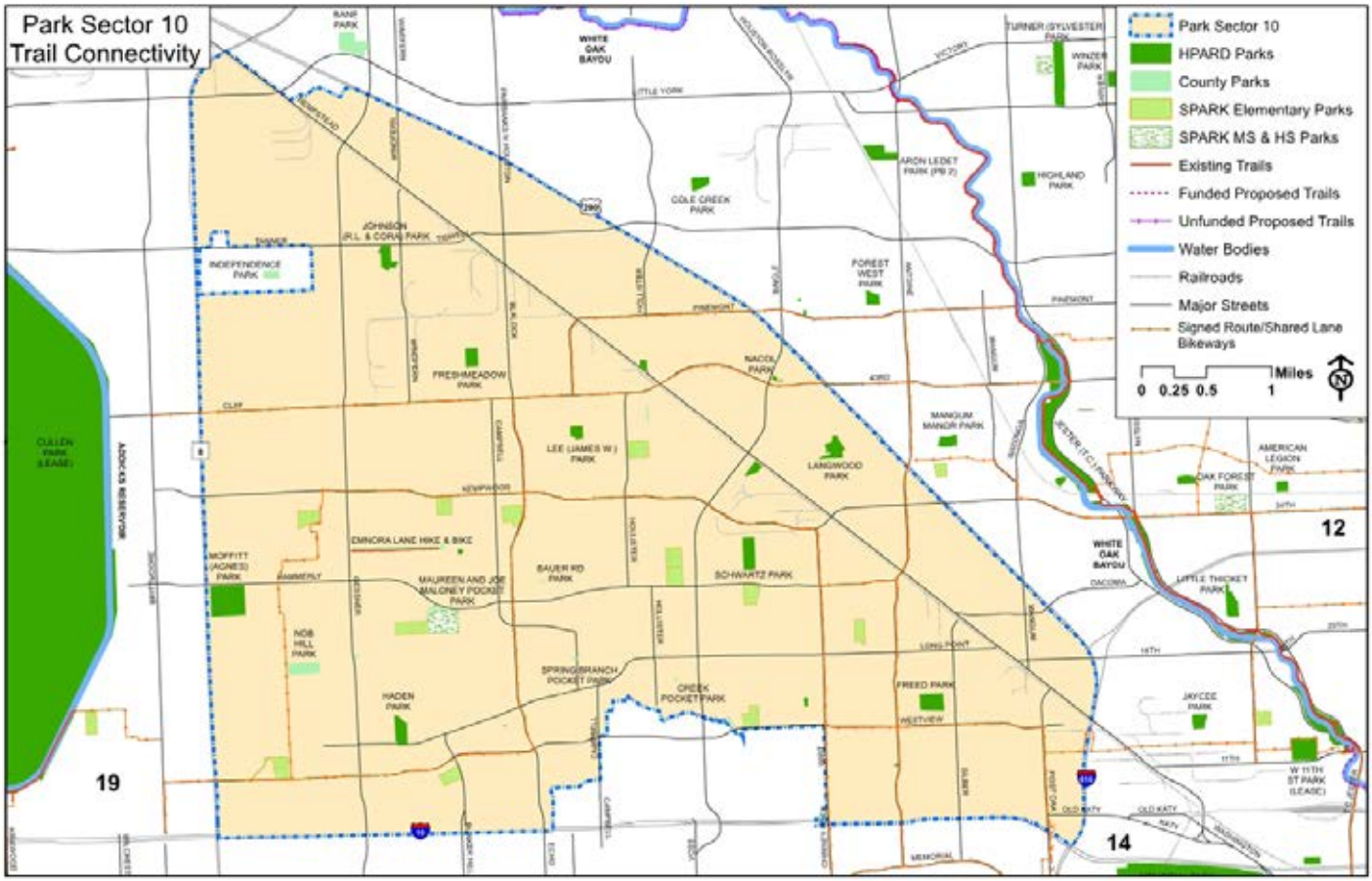


FIGURE 6. PARK SECTOR 10 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

The Houston Parks and Recreation Department (HPARD) operates 11 parks in the area accounting for 119.63 acres of parkland. Harris County operates 13 parks in this area, totaling 36.14 acres of parkland. Inside HPARD parks there are a total of 2.76 miles of trails. In addition, there are 1.66 miles of trails inside SPARK parks serving this Park Sector. This Park Sector does not have any bayous within its boundaries, so the opportunity for developing trails in this area are limited to utility easements, on-road facilities to connect to existing off-road trail systems, and internal park trails.

County Parks and Trails

County Park				
Facility Name	**Address**	**Street**	**Total Acres**	**Trail Length**
Bauer Rd Park	2201	Bauer Road	0.60	0.10
Bracher Pocket Park	1507 ½	Bracher Street	0.21	N/A
Creek Pocket Park			1.00	N/A
Emnora Lane Hike & Bike	10000	Emnora Lane	12.25	0.61
Gessner Park	1610 ½	Gessner Drive	1.00	N/A
Glenmore Forest Park	8000	Wingo	1.18	0.15
Hickory Shadows	1003	Wirt Road	0.8	0.15
Housman Park	6705	Houseman	1.00	0.12
Maureen and Joe Mulrooney Pocket Park	3705	Hammerly Blvd	1.74	0.76
Moritz Pech Family Park	1493 ½	Pech Road	1.00	0.22
Nob Hill Park	10300	Timber Oak Drive	13.18	0.59
Pitner Park	8500	Pitner Road	1.20	0.25
Spring Branch Pocket Park	1700	Campbell Road	1.00	N/A
		Total HC Park Acreage	36.138	
		Total HC Trail Length		2.95

TABLE 6. TRAILS INTERNAL TO COUNTY PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 10

SPARK Parks

There are 12 Elementary Schools and 1 Middle School participating in the SPARK Program providing access to park space and a variety of amenities to the public.

SPARK Parks				
Facility Name	**Address**	**Street**	**Total Acres***	**Amenities**
Buffalo Creek Elementary School	2801	Blalock Rd	13.29	Playground, 0.17 mi Trail, Basketball Pavilion
Cedar Brook Elementary School	2121	Ojeman Rd	11.33	Playground, 0.24 mi Trail
Edgewood Elementary School	8655	Emnora Ln	12.05	Shares facilities with Cedar Brook Elementary
Hollibrook Elementary School	3602	Hollister St	13.73	Playground, 0.32 mi Trail
Pine Shadows Elementary School	9900	Neuens	15.24	2 Playgrounds, 0.29 mi Trail
Ridgecrest Elementary School	2015	Ridgecrest Dr	10.99	Playground, 0.12 mi Trail
Shadow Oaks Elementary School	1335	Shadowdale Dr	12.64	Playground, 0.15 mi Trail
Spring Shadow Elementary School	9725	Kempwood Dr	10.03	Playground, Basketball Pavilion, Soccer field (unlit)
Spring Woods Middle School	9810	Neuens	26.50	2 Picnic Pavilions
Terrace Elementary School	10400	Rothbury St	11.68	Playground, Basketball Pavilion, Multi-Purpose Field
Treasure Forest Elementary School	7635	Amelia Rd	8.75	Playground, 0.12 mi Trail, Soccer Field (unlit), Basketball Pavilion
Valley Oaks Elementary School	8390	Westview Dr	10.95	Playground, 0.25 mi Trail, Basketball Pavilion, Multi-Purpose Field
Woodview Elementary School	9749	Cedardale Dr	9.49	2 Playgrounds
Total Acres*			**166.67**	

TABLE 7. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 10 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

Open and Green Space

To determine level of service, the 2007 Master Plan outlined standard distances based on park classification as well as population. Analysis is based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by The Trust for Public Land ParkScore™ Project. Figure 6 below shows the level of service (LOS) based on the 2007 HPARD recommended standards of a number of acres per 1,000 people using the 2010 Census population. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 0.005 acres/1,000 people for a Pocket park, Park Sector 10 meets the standard. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 1 acres/1,000 people for a Neighborhood park, Park Sector 10 also meets this standard. The analysis for level of service and needs is shown below. 142 acres of Community parkland are needed in this Park Sector.

Park Type	HPARD Park Number	HC Park Number	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
									Population		121,412
Pocket Park (<1 acre)	2	3	1.30	1.59	0	2.9	0.005 ac/ 1,000 people	0.01	0.02	-0.69	-2.28
Neighborhood Park (1-15 acres)	8	10	78.43	34.55	11.68	124.7	1 ac/1,000 people	0.65	1.03	42.98	-3.25
Community Park (16-150 acres)	1	0	39.90	0	0	39.9	1.5 ac/1,000 people	0.33	0.33	142.22	142.22
TOTAL	11	13	119.6	36.1	11.68	167.45				185.20	142.22

TABLE 8. HPARD LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Another way to measure the level of service provided by parks is by looking at a "walkable" distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ Project study mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map shown in Figure 7 was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project. The areas in green on the map represent the area within ½ mile of existing parks not blocked by freeways or major roads. Roughly 38% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, which is lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector.

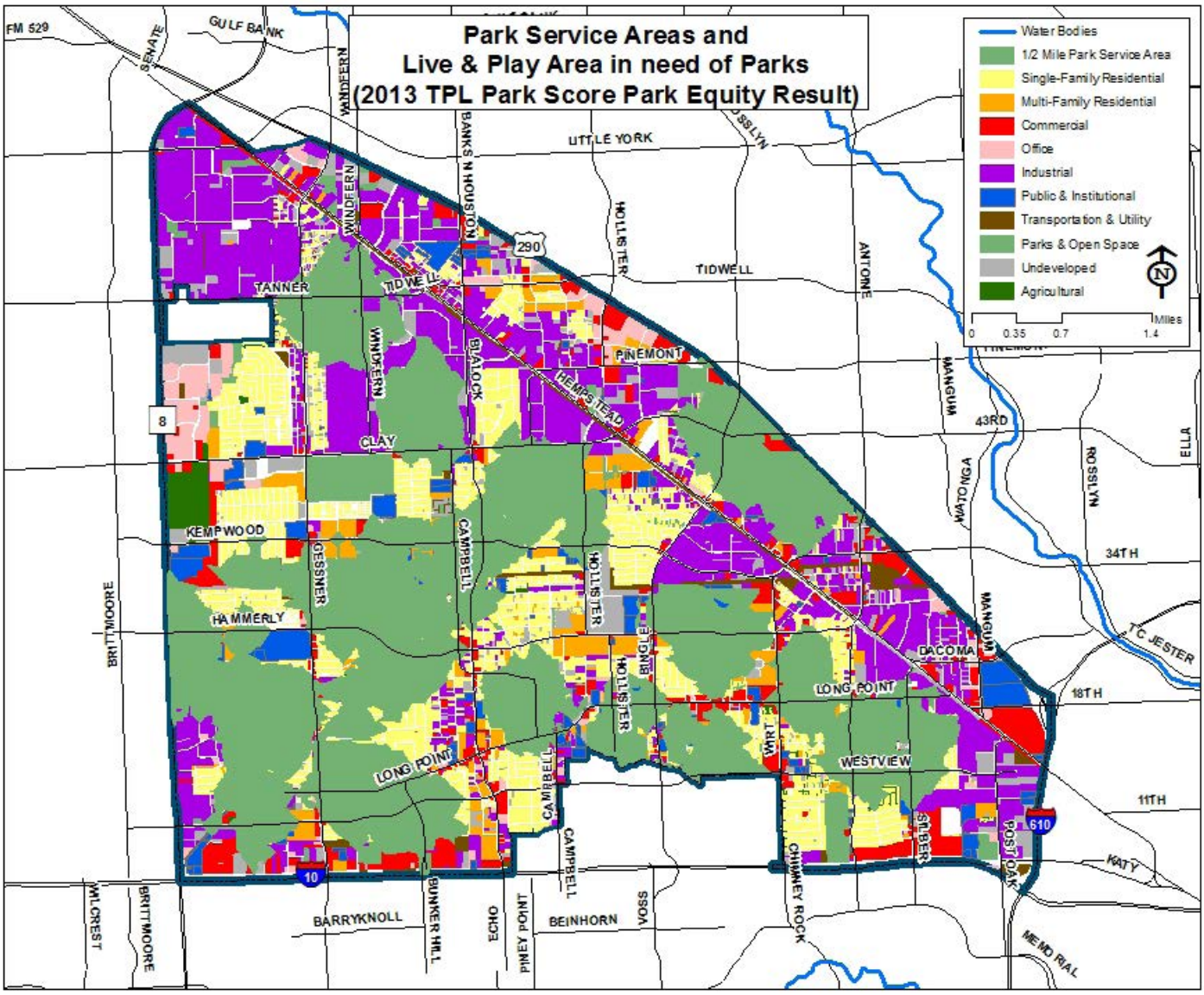


FIGURE 7. PARK SECTOR 10 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

AMENITIES AND SERVICES

This map shows some of the community services available in this area: community centers, health centers, transit centers, schools, libraries, YMCAs, and Boys and Girls Clubs. There are two community centers located in Park Sector 10: Freed and Johnson (R.L. and Cora) Community Centers.

The Spring Branch Community Health Center is a non-profit organization that provides a variety of services, on a sliding scale, that include: primary health care, immunizations, STD services, family planning, benefits eligibility screening, pregnancy testing, behavioral health services, oral health services, laboratory services, youth weight management services, prenatal and obstetrical/gynecological services. The libraries in this Park Sector provide computer access, community meeting space, and educational programs.

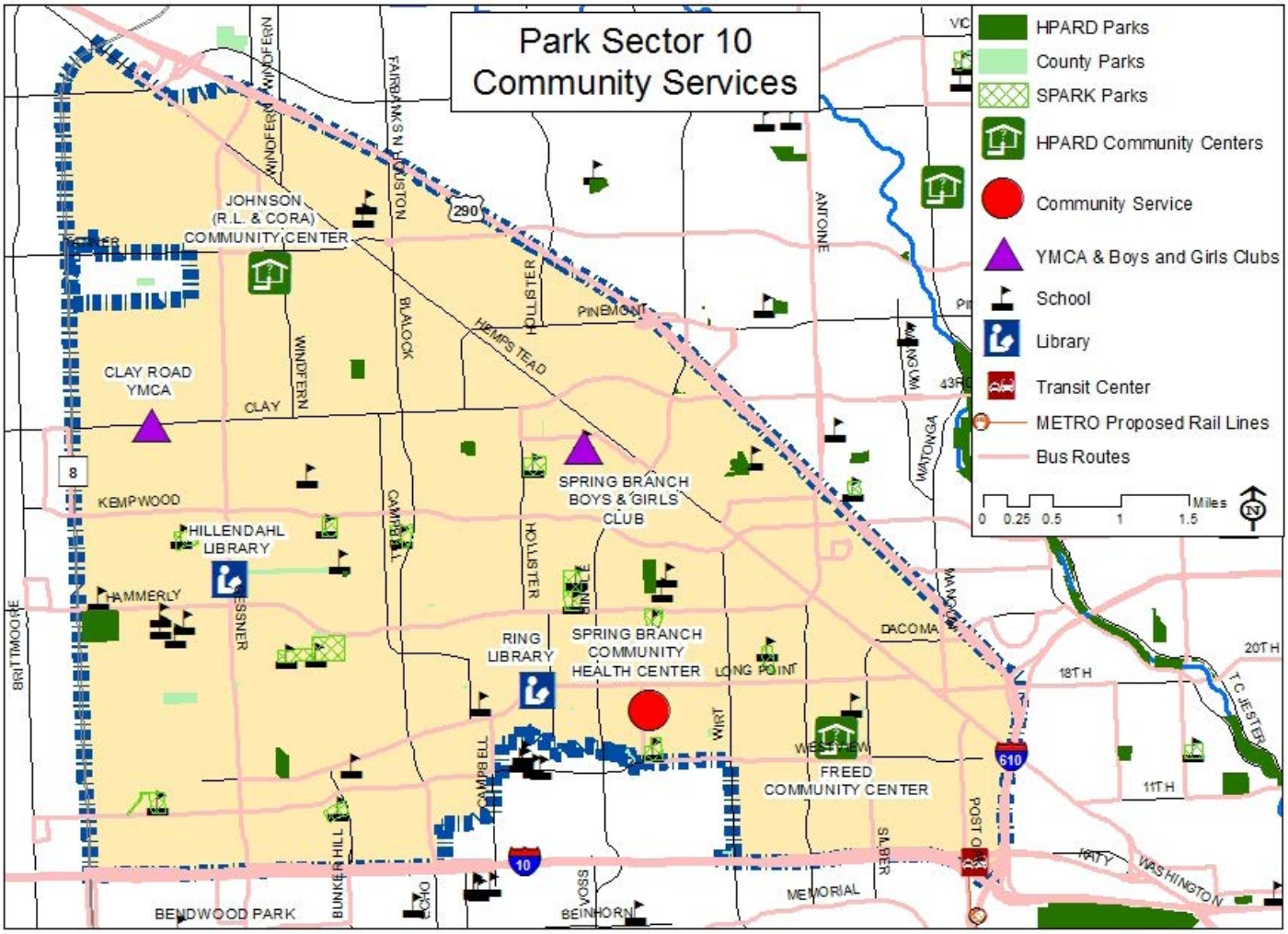


FIGURE 8. PARK SECTOR 10 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities - Level of Service

The 2007 HPARD standards by amenity have been applied to the amenities in Park Sector 10. The first column after the recommended HPARD standards indicates the level of service (LOS) accounting for HPARD facilities only, the total inventory standard accounts for facilities from all providers. Then, the standard for each amenity is compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these recommended HPARD standards, Harris County and other providers are meeting the needs of the residents for playgrounds, outdoor basketball courts and baseball ball fields. This Park Sector is deficient in picnic shelters (3), trails (17 miles), tennis courts (8), volleyball courts (1), dog parks (2), skate parks (2), community centers (2), swimming pools (1), outdoor spraygrounds (2), softball fields (3), and soccer fields (9).

	HPARD	Harris County	Other Providers	Total	Recommended HPARD Standard		Current HPARD Level of Service		Current Total Inventory Level of Service		HPARD NEEDS Over/ Under Service	Total Inventory NEEDS Over/ Under Standard
								Population	121,412			
Playgrounds	10	10	13	33	1	4,000	1	12,141	1	3,679	20	-3
Picnic Shelters	4	3	2	9	1	10,000	1	30,353	1	13,490	8	3
Trails	2.48	2.95	1.66	7.09	0.2	1,000	0.02	1,000	0.06	1,000	22	17
Outdoor Basketball Courts	5	0	5	10	1	12,000	1	24,282	1	12,141	5	0
Tennis	4	0	0	4	1	10,000	1	30,353	1	30,353	8	8
Volleyball	1	0	0	1	1	50,000	1	121,412	1	121,412	2	2
Dog Parks	0	0	0	0	1	100,000	0	121,412	0	121,412	2	2
Skate Parks	0	0	0	0	1	100,000	0	121,412	0	121,412	2	2
Community Centers	2	0	0	2	1	30,000	1	60,706	1	60,706	2	2
Swimming Pools	2	0	0	2	1	50,000	1	60,706	1	60,706	1	1
Outdoor Spraygrounds	0	0	0	0	1	100,000	0	121,412	0	121,412	2	2
Baseball (Lit & Unlit)	4	1	0	5	1 field	30,000	1	30,353	1	24,282	0	-1
Softball (Lit & Unlit)	1	0	0	1	1 field	30,000	0	60,135	0	60,135	3	3
Soccer (Lit & Unlit)	2	0	1	3	1 field	10,000	1	60,706	1	40,471	10	9

TABLE 9. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 10
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- Moffitt (Agnes) Park will have new playground and site furnishings installed in 2016.
- Schwartz Park received $500,000 in funds to install two new playgrounds, a trellis, electrical work, landscaping and irrigation. The work was finished in May of 2013.

SUPPLEMENTAL MAPS:

Park Sector 10 Council Districts

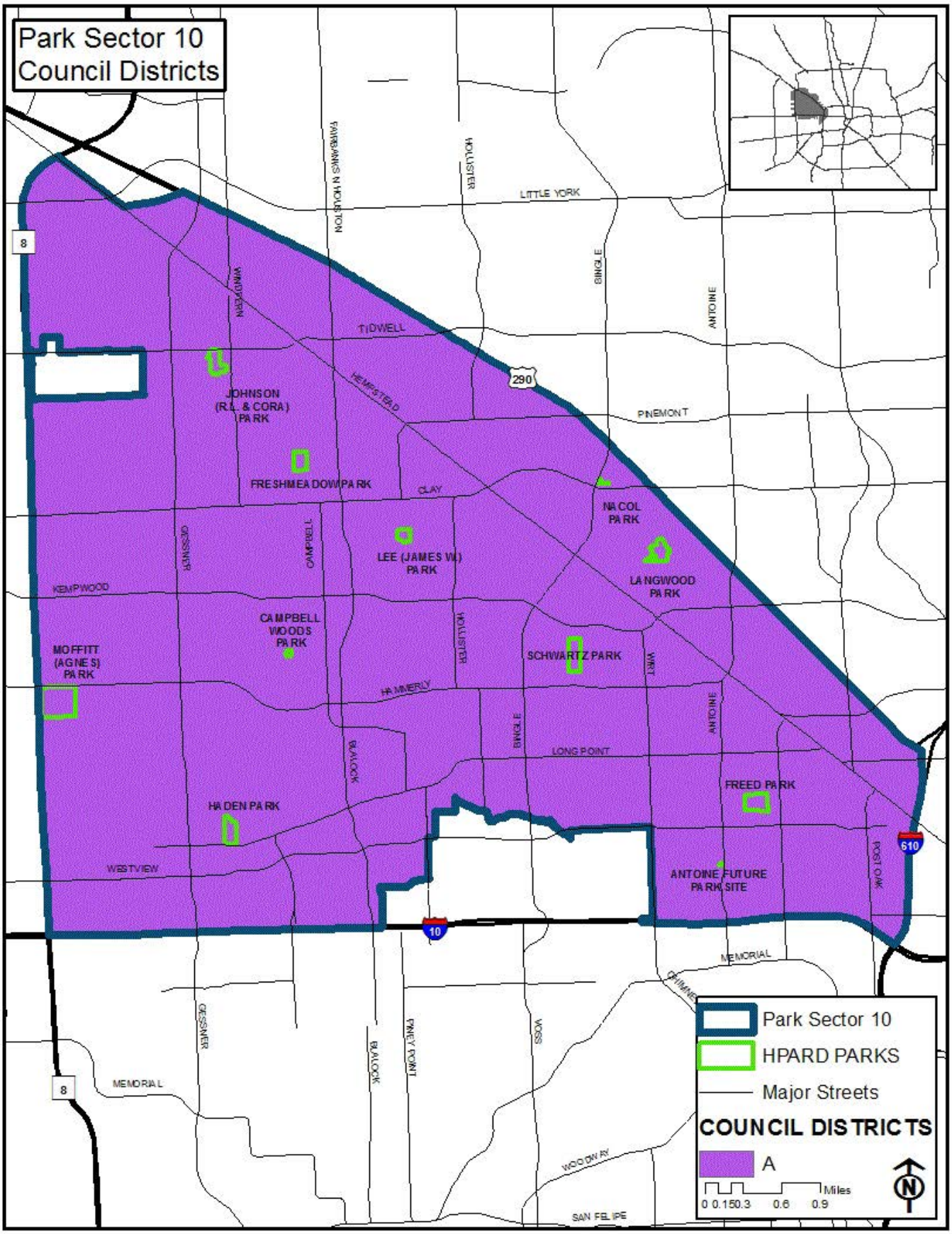


FIGURE 1: PARK SECTOR 10 COUNCIL DISTRICTS

Park Sector 10 Tax Increment Reinvestment Zone (TIRZs) and Management Districts

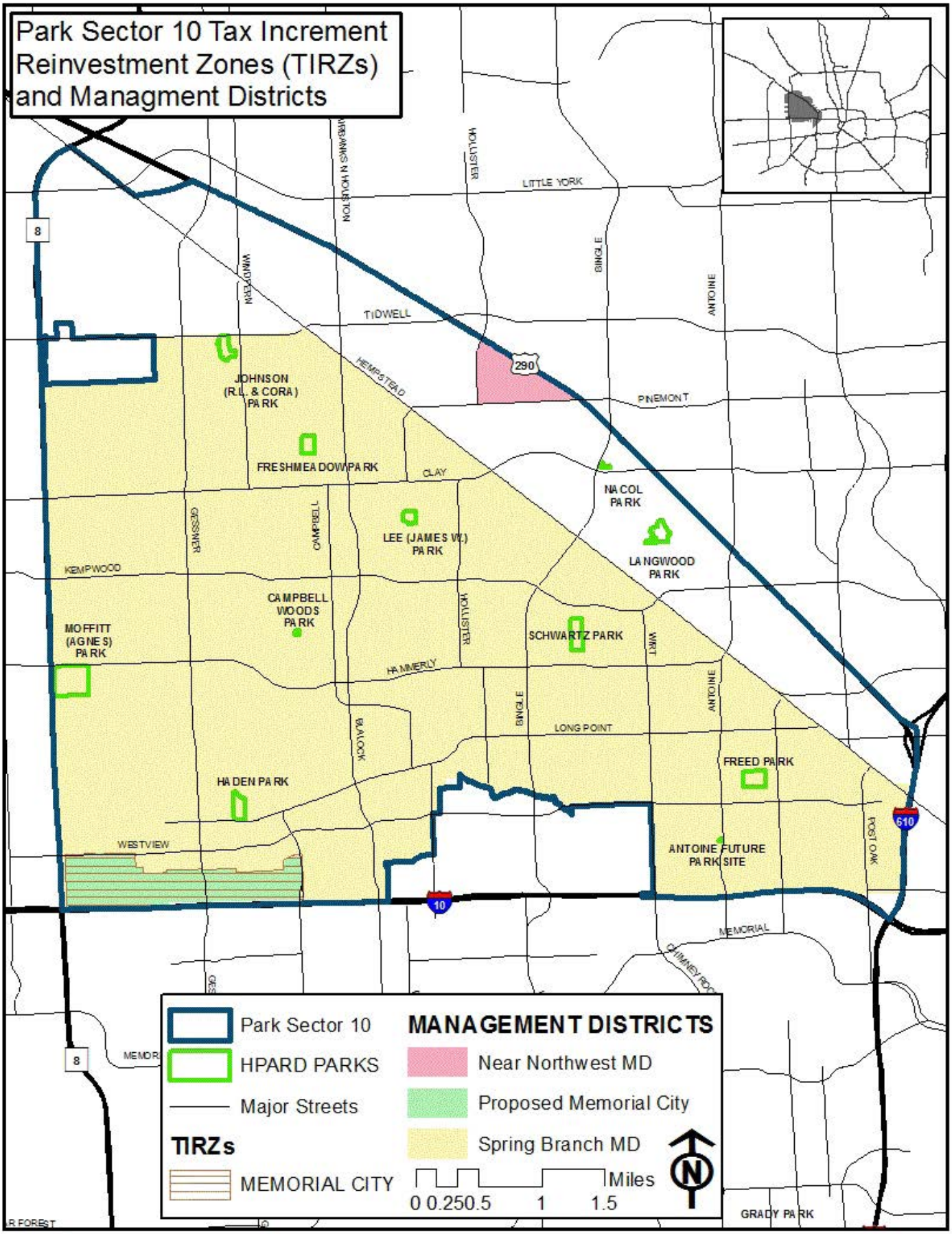


FIGURE 2: PARK SECTOR 10 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 10 Super neighborhoods

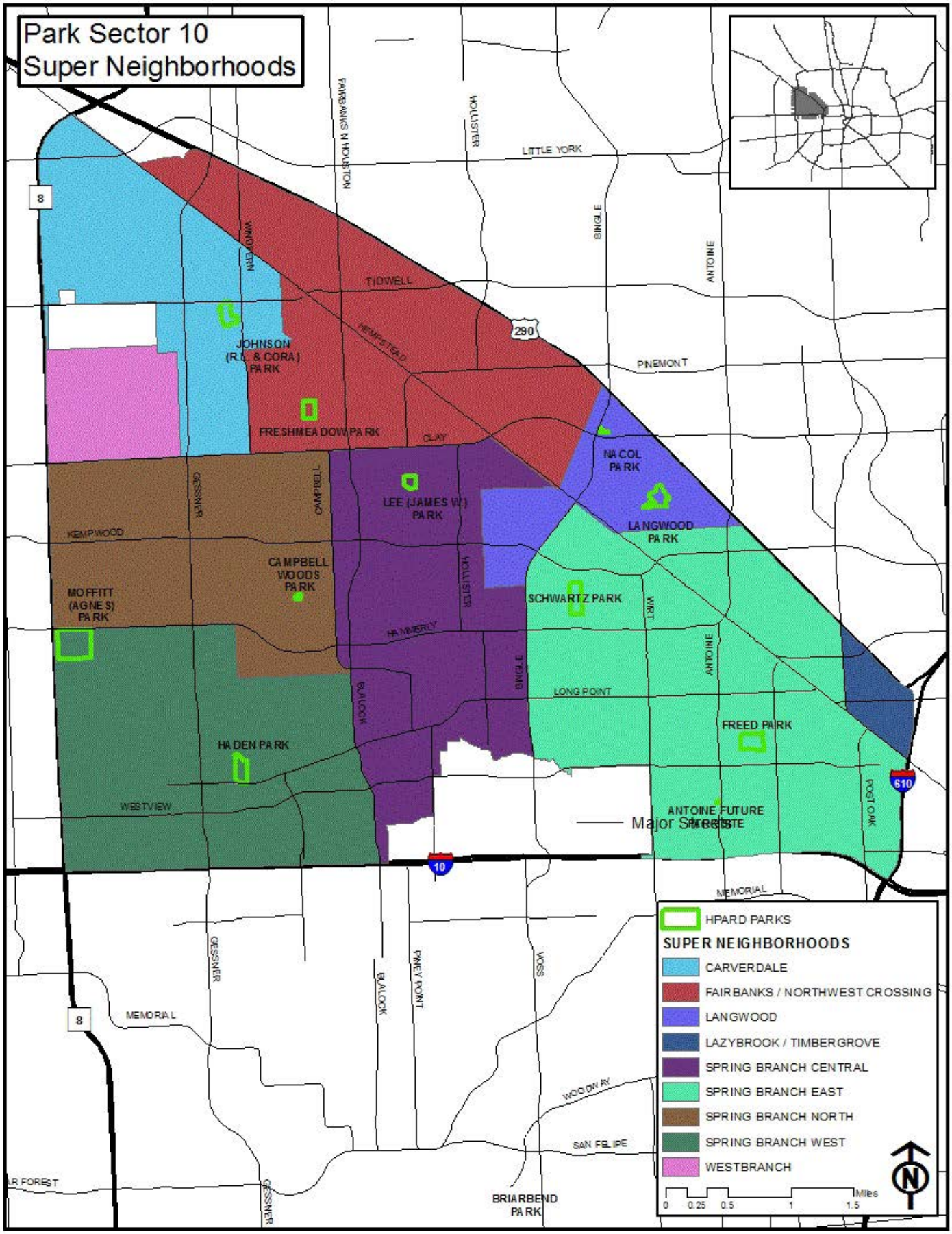


FIGURE 3: PARK SECTOR 10 SUPER NEIGHBORHOODS

Park Sector 10 Floodplain Areas

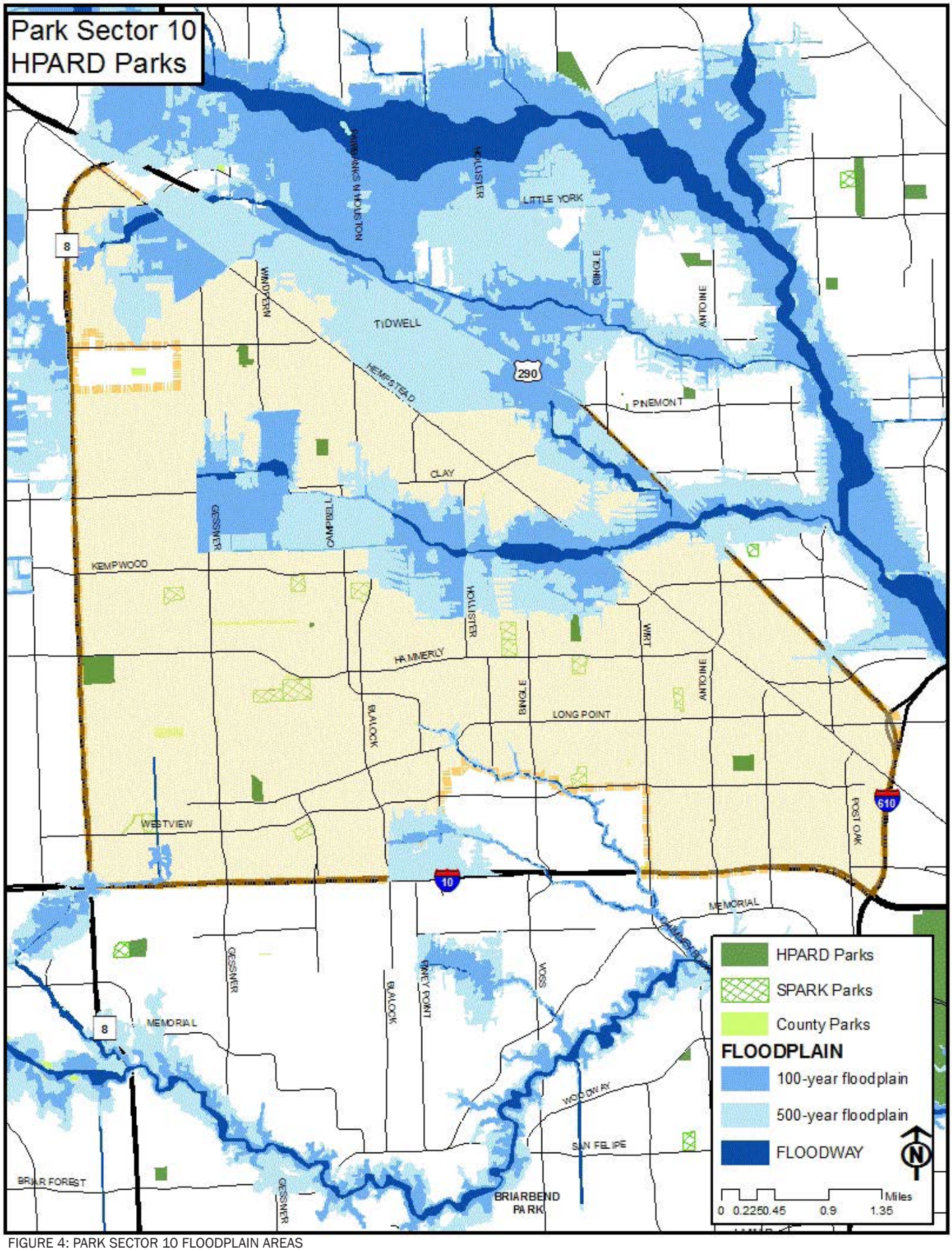


FIGURE 4: PARK SECTOR 10 FLOODPLAIN AREAS

PARK SECTOR 11

PARK SECTOR 11 SUMMARY

PARK SECTOR 11 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and data provided by the Trust for Public Land ParkScore™ Project), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Revitalize existing parks
2. Develop Neighborhood connections to parks and trails
3. Acquire new parkland
4. Preserve environmentally sensitive areas
5. Develop new park facilities
6. Develop partnerships with the school system and other entities

RECOMMENDATIONS

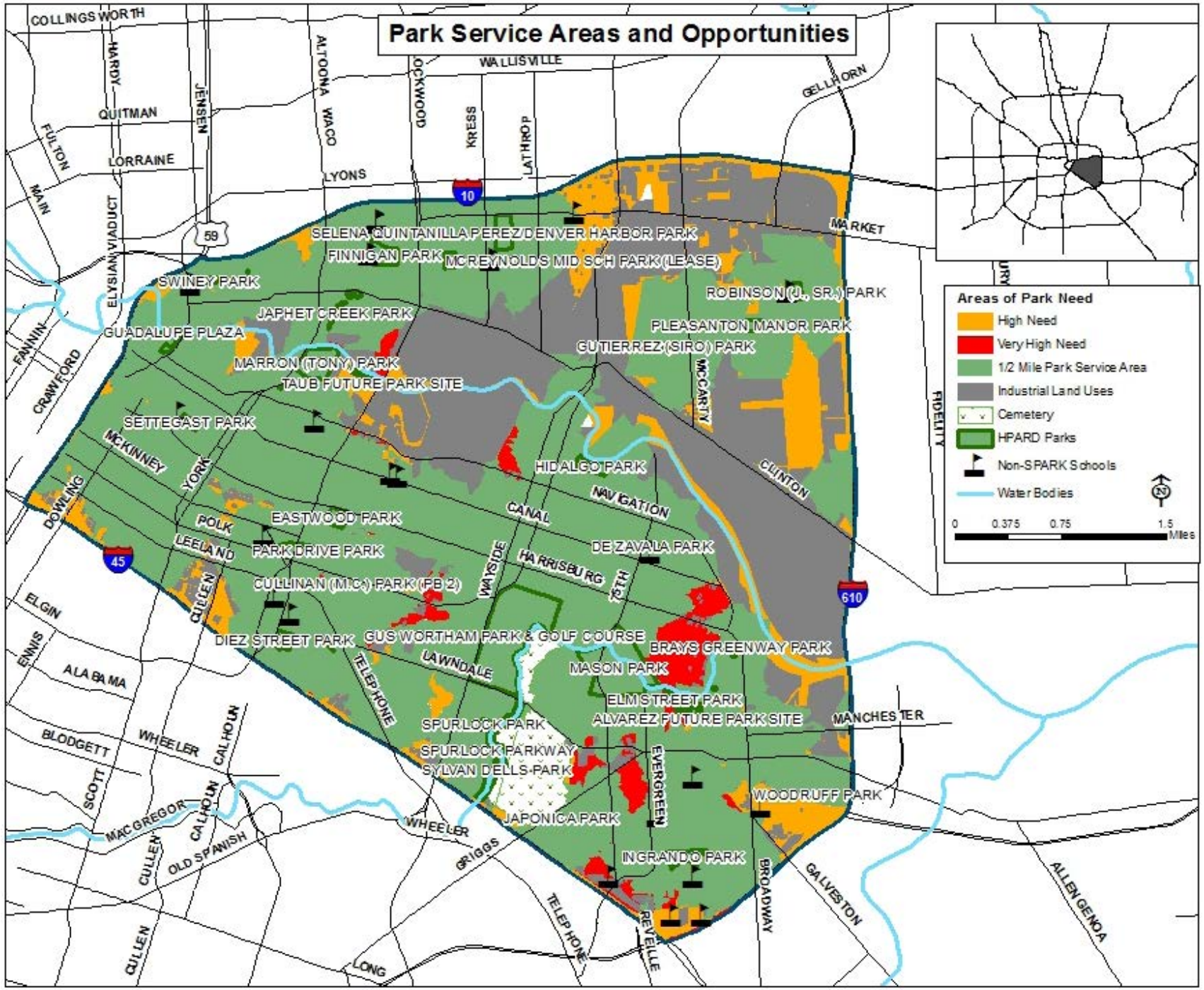
The parks in Park Sector 11 that have the highest need for redevelopment listed are from greatest need to least need: Gregg Street Park, Japonica Park, Pleasanton Manor Park, and Ingrando Park.

In this Park Sector an additional 4 acres of parkland are needed. While the majority of the Park Sector is served by parks within half a mile, there are some areas of need in the northeast portion of the Park Sector. Furthermore, this Park Sector is expected to grow along the METRORail Green Line and in the areas closest to downtown. Schools not participating in the SPARK School Park Program (Non-SPARK schools) should be explored as potential future partnerships for park space. Over 73% of the population in this Park Sector has incomes considered to be low to moderate. Pursuing Community Development Block Grants (CDBG) for park improvements should be a priority. In addition, CDBG funding could be considered in partnership with the SPARK program for to add park space to the system and provide improvements at Non-SPARK schools. Portions of this Park Sector are served by three Tax Increment Reinvestment Zones (TIRZs) and two Management Districts, which have been partners in the past and should continue to be pursued as partners to help meet the need for parkland acquisition and maintenance.

This Park Sector is deficient in trails and volleyball courts. However, Bayou Greenways 2020 (BG2020 Initiative) will fill key gaps along Brays Bayou and residents will be able to use over 20 miles of trail once the Brays Bayou Trail system is completed. In addition, the METRORail Green Line has opened and there are new opportunities for connectivity and require a wayfinding system for pedestrians and bicyclists in the area.

In the 2014 survey, the top three priorities of residents in Park Sector 11 when asked what recreational needs existed in their Neighborhood were: hike, bike and walk trails, open space and natural areas, and dog parks. Other services and amenities that residents asked for in the write-in portion of the survey were: fitness programs, dance or theater programs, arts and crafts programs, swim lessons, community gardens, and golf programming.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector


Park Service Areas and Opportunities
Areas of Park Need
High Need
Very High Need
1/2 Mile Park Service Area
Industrial Land Uses
Cemetery
HPARD Parks
Non-SPARK Schools
Water Bodies
0 0.375 0.75 1.5 Miles
SELENA QUINTANILLA PEREZ/DENVER HARBOR PARK
FINNIGAN PARK
MCREYNOLDS MID SCH PARK (LEASE)
SWINEY PARK
ROBINSON (J., SR.) PARK
JAPHET CREEK PARK
GUADALUPE PLAZA
PLEASANTON MANOR PARK
GUTIERREZ (SIRO) PARK
MARRON (TONY) PARK
TAUB FUTURE PARK SITE
SETTEGAST PARK
HIDALGO PARK
EASTWOOD PARK
PARK DRIVE PARK
DE ZAVALA PARK
CULLINAN (MIC.) PARK (PB 2)
DIEZ STREET PARK
GUS WORTHAM PARK & GOLF COURSE
BRAYS GREENWAY PARK
MASON PARK
ELM STREET PARK
ALVAREZ FUTURE PARK SITE
SPURLOCK PARK
SPURLOCK PARKWAY
SYLVAN DELLS PARK
WOODRUFF PARK
JAPONICA PARK
INGRANDO PARK
COLLINGSWORTH
HARDY
QUITMAN
FULTON
LORRAINE
MAIN
ELYSIAN VIADUCT
JENSEN
ALTOONA
WACO
LOCKWOOD
KRESS
LATHROP
WALLISVILLE
GELLHORN
LYONS
MARKET
FANNIN
CRAWFORD
MCKINNEY
YORK
DOWLING
POLK
LEELAND
CANAL
NAVIGATION
CLINTON
MCCARTY
FIDELITY
HARRISBURG
WAYSIDE
CULLEN
ELGIN
ENNIS
ALABAMA
LAWNDALE
TELEPHONE
BLODGETT
WHEELER
CALHOUN
SCOTT
MACGREGOR
OLD SPANISH
GRIGGS
EVERGREEN
MANCHESTER
BROADWAY
GALVESTON
ALLEN GENOA
REVELLE
LONG
10
45
59
610

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Bollintom Future Park Site	7555	Elm Street	0.39	N/A
Brays Greenway Park	8001	Hockley	0.57	N/A
Broadmoor-Kretschmar Park	1500	Elliott	0.60	N/A
Cullinan (M.C.) Park (PB2)	5120	Polk	0.75	N/A
Fox Park	500	York/Fox	0.13	N/A
Gregg Street Park	605	Gregg	0.10	N/A
Japonica Park	6600	Japonica	0.37	N/A
Smith Future Park Site	7612	E. Elm Street	0.18	N/A
Sylvan Dells Park	1973	N MacGregor Way	0.38	N/A
Woodruff Park	8800	Woodruff	0.20	N/A
Total HPARD Pocket Park Acreage			**3.67**	
Neighborhood Parks				
Alvarez\Roark\Giraud Future Park Site		Nueces @ Brays Bayou	3.27	N/A
De Zavala Park	7520	Avenue J/907 76th St	2.60	N/A
Diez Street Park	4700	Diez/1800 Dumble	9.37	N/A
Eastwood Park	5020	Harrisburg	10.80	0.20
Elm Street Park	7600	Elm Street @ Brays Bayou	2.84	N/A
Garver Future Park Site		Buffalo Bayou/Lockwood	1.96	N/A
Guadalupe Plaza	2311	Runnels	6.46	N/A
Gutierrez (Siro) Park	7900	Flaxman	1.40	0.14
Hidalgo Park	7000	Avenue Q	11.60	N/A
Ingrando Park	7302	Keller	14.87	0.59
Japhet Creek Park	4700	Clinton Drive	4.76	N/A
Kellogg Street Future Park Site	0	Kellogg	1.10	N/A
McReynolds Mid Sch Park (Lease)	5905	Larimer	4.11	N/A
Park Drive Park	4600	Park Dr	2.60	N/A
Pleasanton Manor Park	8501	Guinevere	4.75	0.15
Robinson (J., Sr.) Park	1422	Ledwicke	4.79	0.10
Settegast Park	3000	Garrow	4.10	0.40
Spurlock Park	6700	Park Lane	3.44	N/A
Spurlock Parkway	1300	N. MacGregor Way	10.00	N/A
Swiney Park	2812	Cline	2.50	0.15
Taub Future Park Site		Buffalo Bayou/Lockwood	2.94	N/A
Total HPARD Neighborhood Park Acreage			**110.26**	
Community Parks				
Finnigan Park* (interlocal agreement)	4900	Providence	19.07	N/A
Gus Wortham Park & Golf Course	311	S. Wayside	150.77	0.30
Marron (Tony) Park	808	N. York	30.72	0.46
Mason Park	541	South 75th St/Tipps	108.08	1.40
Selena Quintanilla Perez/Denver Harbor Park	6402	Market	17.20	0.87
Total HPARD Community Park Acreage			**325.84**	
Total HPARD Park Acreage			**439.8**	

Urban Trails/Shared Use Parks/Bayou Trails	
Harrisburg/Sunset Trail	2.00
Columbia Tap Trail	1.10
Brays Bayou Trail	3.90
Buffalo Bayou Trail	3.00
Total HPARD Trail Length	**14.26**

EXISTING COMMUNITY CENTERS AND POOLS

Community Centers and Pool Facilities	Address	Zip Code	Agency Responsible
De Zevala Community Center and Pool	Avenue J/907 76th Street	77012	HPARD
Eastwood Community Center and Pool	2020 Harrisburg	77011	HPARD
Finnigan Community Center and Pool	4900 Providence	77020	HPARD
Ingrando Community Center	7302 Keller	77012	HPARD
Mason Community Center and Pool	541 S 75th Street/Tipps	77023	HPARD
Robinson (J., Sr.) Community Center and Pool	1422 Ledwicke	77029	HPARD
Selena Quintanilla Perez/Denver Harbor Community Center and Pool	6402 Market	77020	HPARD
Settegast Community Center	3000 Garrow	77003	HPARD
Swiney Community Center	2812 Cline	77020	HPARD

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area from public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger).The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Approximately 13% of the area in this Park Sector is in need of parkland accessible within a ½ mile, as compared to the 55% of the population of the City of Houston who need park access. Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains 459 acres of parkland (Harris County, HPARD & other providers) and 16 miles of trails. Of the 13,914 acres in this Park Sector, 3% of this acreage is parkland.
- There are approximately 90,000 residents, 82% are Hispanic and there is a high percentage of children & youth.
- The Health of Houston 2010 Survey shows that 36% of the population is considered obese, as compared to 32% for the City of Houston as a whole.
- An additional 4 acres of parkland are needed in this Park Sector. This is based on the current population (2010 US Census) of the Park Sector and needs assessment done for Pocket, Neighborhood and Community parks (number of acres per 1,000 people).
- The map shows need for parkland in a few small Pockets in this Park Sector.
- This Park Sector is expected to grow along the METRORail Green Line.
- H-GAC population projections estimate that this area will add over 6,000 residents by 2040. To meet the park land needs for the estimated 2040 population an additional 1 acre of parkland will be needed.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	32	18	18	28	14	2	1	1	9	6	4	22	3	10
2015 Existing	32	18	17*	28	14	1	1	1	9	6	4	22	3	10
2015 Needed	-	-	1	-	-	1	-	-	-	-	-	-	-	-
2040 Needed	-	-	1	-	-	-	-	-	-	-	-	-	-	-

* This number include 1 mile of trail currently planned or under construction along Brays Bayou under the Bayou Greenways Initiative, BG2020.

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.
2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.
3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.
4. Annual Operation & Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation per resident in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$1,400,000	4 Acres- $1,500,000	$44,000,000	$5,700,000
2040	$700,000	1 Acres- $200,000	$88,000,000	$400,000
TOTAL 2040	$2,100,000	5 Acres- $1,700,000	$132,000,000	$6,100,000

PARK SECTOR PROFILE 11

LOCATION AND POLITICAL BOUNDARIES

Park Sector 11 is located northeast of 45, inside the 610 loop, south of I-10, and east of 59.
Park Sector Size: 13,914 acres or 21.7 square miles
Population: 90,242 people, Density: 4,159 persons/sq. mi.
Political Boundaries within Park Sector 11:

- Council Districts: I, H, and B
- Super neighborhoods contained in this Park Sector: Downtown, Greater Eastwood, Second Ward, Greater Fifth Ward, Denver Harbor/ Port Houston, Pleasantville Area, Clinton Park Tri-Community, Magnolia Park, Lawndale/ Wayside, Harrisburg/ Manchester, and Pecan Park
- TIRZ: East Downtown and Fifth Ward
- Management Districts: East Downtown and Greater East End

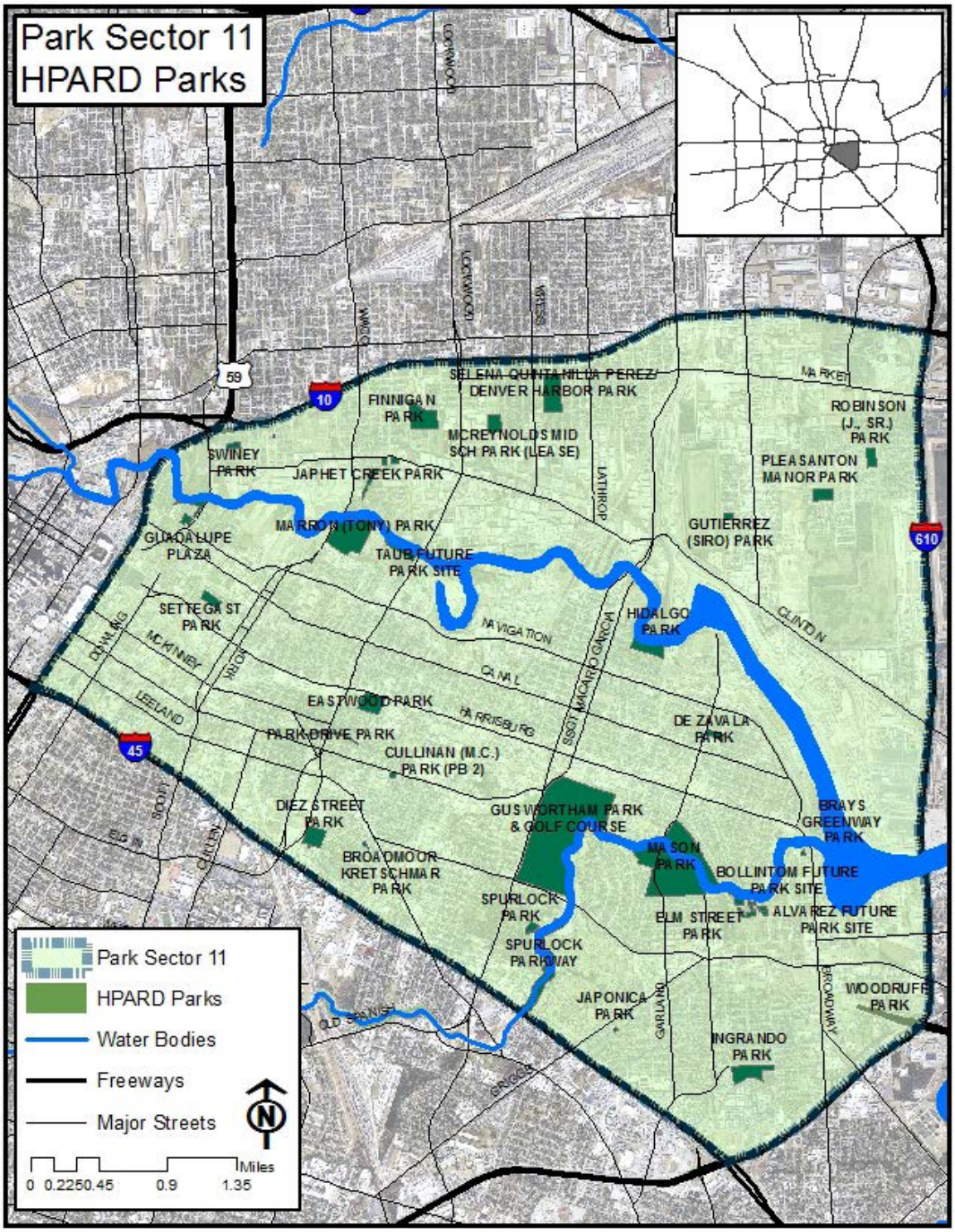


FIGURE 1. PARK SECTOR 11 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 11 Population	Park Sector 11 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**90,242**	-	2,119,831	-
Hispanic or Latino	74,248	82.3%	919,668	43.8%
Non-Hispanic White	6,163	6.8%	537,901	25.6%
Non-Hispanic Black	8,337	9.2%	485,956	23.1%
Non-Hispanic American-Indian	119	0.1%	126,098	6.1%
Non-Hispanic Asian	915	1.0%		
Non-Hispanic Hawaiian or Pacific Islander	16	0.0%		
Non-Hispanic Some Other Race	444	0.5%	26,828	1.3%

TABLE 1. PARK SECTOR 11 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains about 4.3% of the population of Houston; the majority (82%) of the residents are Hispanic/Latino, followed by Non-Hispanic Blacks (9%), Non-Hispanic Whites (7%), and Non-Hispanic Asians (1%). The least dense portions of the Park Sector are those areas closer to IH-10 and US-610.

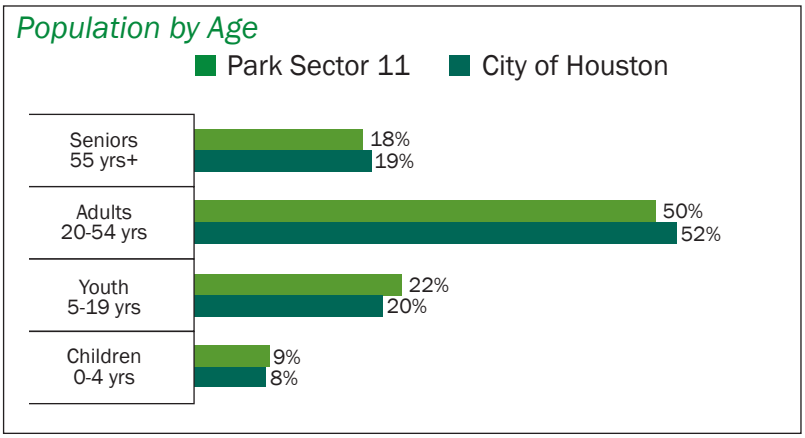


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 11 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that the percent of population under 19 (31%) is similar to the percentage of the rest of the city (28%). Further breakdown of the age groups, as shown in Figure 2., reveals that, the distribution of age groups in this Park Sector generally mirrors the same pattern as the entire City of Houston. These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 11 Population	PS 11 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	8,049	9%	9%	166,066	8%	8%
Youth	5-9 yrs	7,173	8%	22%	148,843	7%	21%
	10-14 yrs	6,450	7%		135,622	7%	
	15-19 yrs	6,652	7%		140,673	7%	
Adults	20-34 yrs	22,507	25%	50%	539,348	26%	52%
	35-44 yrs	11,873	13%		286,117	14%	
	45-54 yrs	11,119	12%		265,060	13%	
Senior	55-64 yrs	8,468	9%	18%	204,852	10%	19%
	65 yrs +	7,871	9%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 11 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 28,656 housing units in this Park Sector. The percent of vacant housing in Park Sector 11 (14.2%) is higher than the vacancy rates for the entire city (12.3%). Home ownership for this Park Sector (37.5%) is just below the City of Houston's home ownership rate (39.7%), similarly, the share of renters (47.9%) is almost equivalent to that of the city's as a whole (47.1%).

Income

The median household income for this Park Sector ($26,942) is significantly lower than that of the City of Houston ($48,322). In this Park Sector seventy-seven percent (77%) or 21,939 households in this area have an income below the Houston median household income. According to the City of Houston Housing and Community Development data (low to moderate derived from 2000 Census as per federal regulations) 73.2% of the population is low to moderate income; therefore, this area could qualify for Community Development Block Grant (CDBG) funds.

Educational Attainment

Within Park Sector 11 the percent (10%) of individual 25+ years of age with a Bachelor's degree or above is significantly lower than the relative percent for the entire City of Houston (28%). Conversely, the percentage of those within this Park Sector without a high school degree (50%) is twice as high as for the same population for the City of Houston (25%).

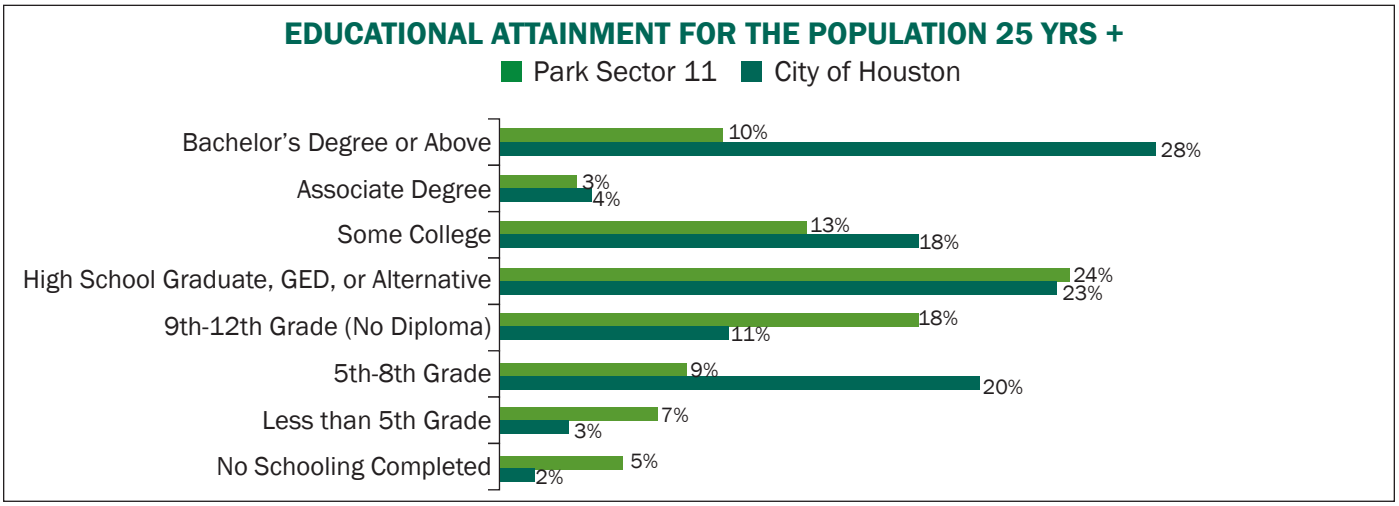


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 35.7% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that 6.0% of the adult population received a diagnosis of diabetes by a professional, which is below the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that almost 39% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is higher than that of the entire city (32%). The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%. Finally, the survey shows that 27.1% of the population does not engage in moderate physical activity at all, which is higher than the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

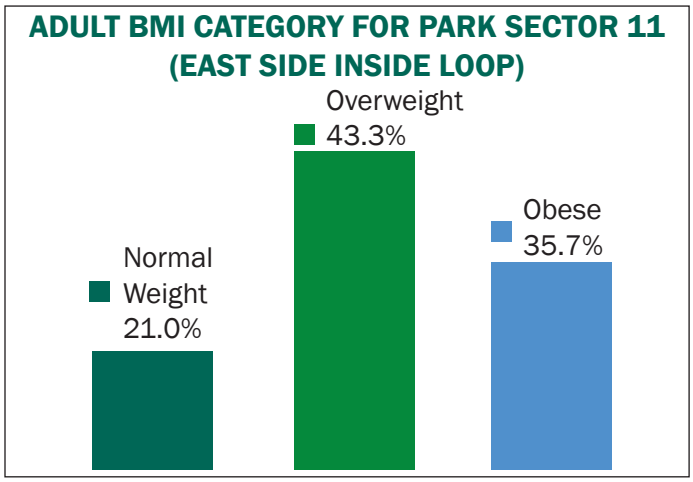


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	27.10
1	8.00
2	12.70
3	22.10
4	9.90
5	3.60
6	5.20
7	11.40

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	19,107	67.1%	2,474	24.7%
Multi-Family	864	3.0%	294	2.9%
Commercial	1,468	5.2%	544	5.4%
Office	105	0.4%	126	1.3%
Industrial	1,649	5.8%	2,735	27.3%
Public & Institutional	758	2.7%	1,145	11.4%
Transportation	368	1.3%	1,079	10.8%
Parks & Open Space	161	0.6%	294	2.9%
Undeveloped	3,928	13.8%	1,314	13.1%
Agriculture Production	7	0.0%	0	0.00%
TOTAL	28,492	100%	10,005	100%

TABLE 4. LAND USE BY DESCRIPTION (2013 HCAD)

Single-family is the dominant land use in Sector 11, it constitutes 67.5% of all parcels and 25% of all acreage in the Park Sector. Industrial use makes up over a quarter (27.3%) of the acreage in Sector 11, and 5.4% of all parcels. This high percentage of industrial use as well as the 10.8% of the transportation and utility use is due to the presence of the Houston Ship Channel in parts of the Park Sector. Undeveloped land accounts for 18.6% of all parcels and 33% of all acreage in the Park Sector.

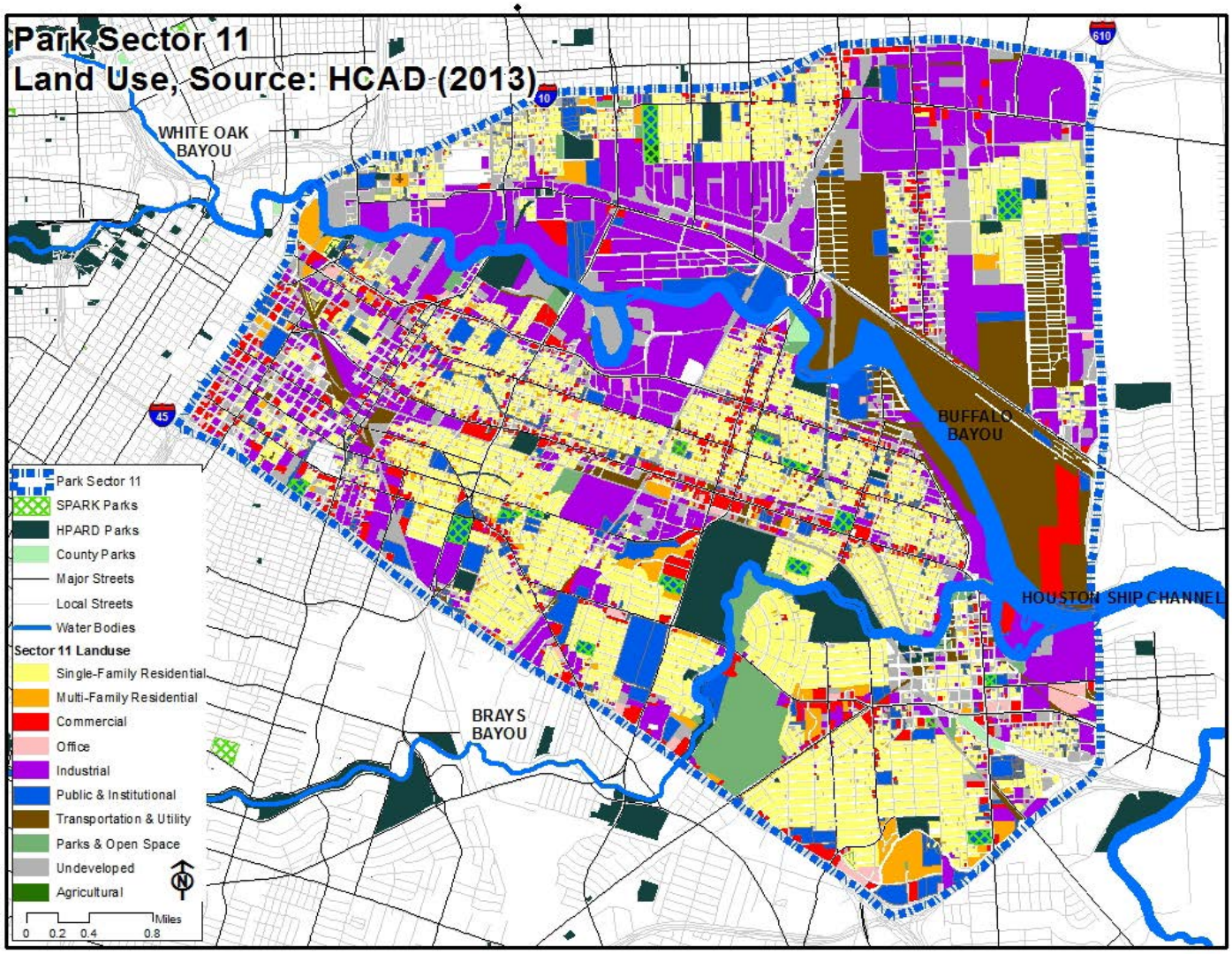


FIGURE 5. PARK SECTOR 11 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

HPARD PARKS AND TRAILS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Bollintom Future Park Site	7555	Elm Street	0.39	N/A
Brays Greenway Park	8001	Hockley	0.57	N/A
Broadmoor-Kretschmar Park	1500	Elliott	0.60	N/A
Cullinan (M.C.) Park (PB2)	5120	Polk	0.75	N/A
Fox Park	500	York/Fox	0.13	N/A
Gregg Street Park	605	Gregg	0.10	N/A
Japonica Park	6600	Japonica	0.37	N/A
Smith Future Park Site	7612	E. Elm Street	0.18	N/A
Sylvan Dells Park	1973	N MacGregor Way	0.38	N/A
Woodruff Park	8800	Woodruff	0.20	N/A
Total HPARD Pocket Park Acreage			**3.67**	
Neighborhood Parks				
Alvarez\Roark\Giraud Future Park Site		Nueces @ Brays Bayou	3.27	N/A
De Zavala Park	7520	Avenue J/907 76th St	2.60	N/A
Diez Street Park	4700	Diez/1800 Dumble	9.37	N/A
Eastwood Park	5020	Harrisburg	10.80	0.20
Elm Street Park	7600	Elm Street @ Brays Bayou	2.84	N/A
Garver Future Park Site		Buffalo Bayou/Lockwood	1.96	N/A
Guadalupe Plaza	2311	Runnels	6.46	N/A
Gutierrez (Siro) Park	7900	Flaxman	1.40	0.14
Hidalgo Park	7000	Avenue Q	11.60	N/A
Ingrando Park	7302	Keller	14.87	0.59
Japhet Creek Park	4700	Clinton Drive	4.76	N/A
Kellogg Street Future Park Site	0	Kellogg	1.10	N/A
McReynolds Mid Sch Park (Lease)	5905	Larimer	4.11	N/A
Park Drive Park	4600	Park Dr	2.60	N/A
Pleasanton Manor Park	8501	Guinevere	4.75	0.15
Robinson (J., Sr.) Park	1422	Ledwicke	4.79	0.10
Settegast Park	3000	Garrow	4.10	0.40
Spurlock Park	6700	Park Lane	3.44	N/A
Spurlock Parkway	1300	N. MacGregor Way	10.00	N/A
Swiney Park	2812	Cline	2.50	0.15
Taub Future Park Site		Buffalo Bayou/Lockwood	2.94	N/A
Total HPARD Neighborhood Park Acreage			**110.26**	
Community Parks				
Finnigan Park* (inter-local agreement)	4900	Providence	19.07	N/A
Gus Wortham Park & Golf Course	311	S. Wayside	150.77	0.3
Marron (Tony) Park	808	N. York	30.72	0.46
Mason Park	541	South 75th St/Tipps	108.08	1.40
Selena Quintanilla Perez/Denver Harbor Park	6402	Market	17.20	0.87
Total HPARD Community Park Acreage			**325.84**	

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 11

Total HPARD Park Acreage	**439.8**	
Urban Trails and Shared Use Paths		
Harrisburg/Sunset Trail		2
Columbia Tap Trail		1.1
Brays Bayou Trail		3.9
Buffalo Bayou Trail		3
Total HPARD Trail Length		**14.26**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 11 *continued*

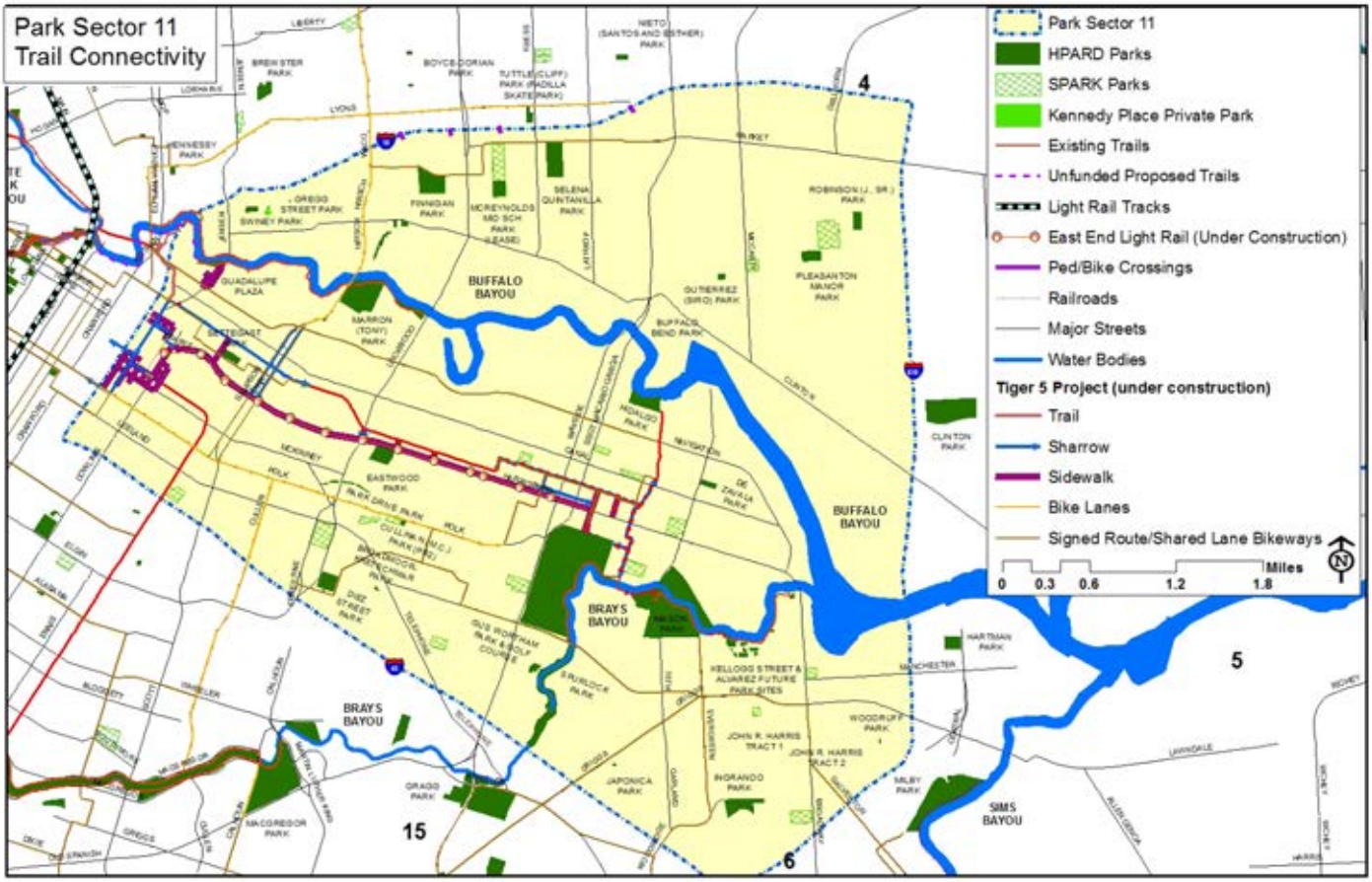


FIGURE 6. PARK SECTOR 11 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

The Houston Parks and Recreation Department (HPARD) operates 36 parks in the area accounting for 439.8 acres of parkland. Harris County operates 3 parks in this area, totaling 17.98 acres of parkland. Harris County and HPARD have an inter-local agreement in regards to Finnigan Park. HPARD maintains the pool, while Harris County maintains the rest of the park. Kennedy Place, a Houston Housing Authority affordable housing multi-family complex, dedicated 0.92 acres in 2011 to serve their residents. While this park is not publicly accessible, it nonetheless serves residents at this site. HPARD also maintains the Harrisburg-Sunset Trail and the Columbia Tap Trail as well as trails along Brays and Buffalo Bayous accounting for 10 miles of trails. In addition, there are approximately 4 miles of trails inside HPARD parks and 2 miles of trails inside SPARK parks in this Park Sector for a total of 16 miles of trails available to the public.

Through the Bayou Greenway Initiative 0.3 miles of miles are planned to fill in gaps in the Brays Bayou trail. Pedestrian enhancements and on-street connections will be improved to connect the existing Harrisburg Trail with the Brays Bayou Trail as part of the Transportation Investment Generating Economic Recovery (TIGER) grant. Additional pedestrian improvements are being done by Harris County Precinct 2 and the East End Management District. Properties and amenities along Buffalo Bayou are being improved and managed in partnership with the Buffalo Bayou Partnership (BBP). BBP has acquired land in through its own organization and also coordinates with various governmental agencies, such as Harris County, the City of Houston, Harris County Flood Control District and the Texas Department of Transportation to develop and maintain municipal and county properties and amenities. Allen's Landing Memorial Park, Houston's birthplace and first port, has been a focal point of BBP's revitalization efforts for over a decade. Central to these efforts is restoration of the 12,000-square-foot Sunset Coffee Building that will be opened in late 2015. They also work to develop trails along a 10-mile stretch of Buffalo Bayou from Shepherd Drive in Park Sector 14 to the port of Houston Turning Basin in Park Sector 11.

County Parks and Trails

County Park				
Facility Name	**Address**	**Street**	**Total Acres**	**Trail Length**
Buffalo Bend		S. Sgt Macario Garcia Drive at Buffalo Bayou	10.00	N/A
John R. Harris Tract 1		Highway 225 at Broadway	5.66	N/A
John R. Harris Tract 2		Highway 225 at Broadway	2.32	N/A
		Total HC Park Acreage	**17.98**	
		Total HC Trail Length		**N/A**

TABLE 6. TRAILS INTERNAL TO COUNTY PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 11

SPARK Parks

There are 11 Elementary Schools, 5 Middle Schools, and 1 High School participating in the SPARK Program providing access to park space and a variety of amenities to the public.

SPARK Parks				
Facility Name	**Address**	**Street**	**Total Acres***	**Amenities**
Briscoe Elementary School	321	Forest Hill Dr	7.86	2 Playgrounds, 0.24 mi Trail, Picnic Pavilion
Cage Elementary School	4528	Leeland St	13.20	Playground, Basketball Pavilion, 4 Tennis Courts, Baseball Field
Carrillo Elementary School	960	S Wayside Dr	8.24	2 Playgrounds, 0.17 mi Trail, Multi-Purpose Field
Davila Elementary School	7600	Bowie St	1.80	Playground, .11 mi Trail, Picnic Pavilion
Deady Middle School	2500	Broadway St	7.92	0.25 mi Trail, Multi-Purpose Field
Dodson Elementary School	1808	Sampson	5.78	Playground, 0.18 mi Trail, Basketball Pavilion
Eastwood Academy	1315	Dumble St	2.95	Basketball Pavilion
Edison Middle School	6901	Avenue I	2.77	0.18 mi Trail, 2 Basketball Courts
Franklin Elementary School	7101	Canal St	3.91	2 Playgrounds, 0.09 mi Trail, Basketball Pavilion
Gallegos Elementary School	7415	Harrisburg Blvd	8.32	2 Playgrounds, Multi-Purpose Field, 2 Basketball Courts
Holland Middle School	1600	Gellhorn Dr	17.03	0.20 mi Track, 2 Basketball Courts, Multi-Purpose Field
Jackson Middle School	5120	Polk St	2.24	0.21 mile Trail, Multi-Purpose Field
JP Henderson Elementary School	1800	Dismuke St	4.75	Playground, Picnic Pavilion
JR Harris Elementary School	801	Broadway St	2.75	Playground, 0.13 mi Trail, Basketball Pavilion, Soccer Field
McReynolds Middle School	5910	Market St	19.90	Baseball field, 2 Soccer Fields, Multi-Purpose Field
Port Houston Elementary School	1800	McCarty St	4.03	2 Playgrounds, Picnic Pavilion, 2 Basketball Courts
Tijerina Elementary School	6501	Sherman	4.55	Playground, Basketball Pavilion
Total Acres*			**118.00**	

TABLE 7. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 11 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

Open and Green Space

To determine level of service, the 2007 Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by The Trust for Public Land ParkScore™ Project. Figure 6 below shows the level of service (LOS) based on the 2007 HPARD recommended standards of a number of acres per 1,000 people using the 2010 Census population. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 0.1 acres/1,000 people for a Pocket park, Park Sector 11 needs 4.43 acres of parkland. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 1 acres/1,000 people for a Neighborhood park, Park Sector 11 also meets this standard. For the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 1.5 acres/1,000 people for a community park, Park Sector 11 meets this standard. The analysis for level of service and needs is shown below. Areas of this Park Sector close to downtown are beginning to redevelop into condos and multi-family developments. Anticipating this increase in density through land acquisition will help serve future residents. Furthermore, if land is purchased now, instead of after when redevelopment is already occurring, the land will be less expensive.

Park Type	HPARD Park Number	HC Park Number	Other Providers	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
										Population		90,242
Pocket Park (<1 acre)	10	0	1	3.7	0	0.92	4.59	0.1ac/1,000 people	0.04	0.05	5.35	4.43
Neighborhood Park (1-15 acres)	21	3	0	110.3	17.98	0	133.3	1 ac/1,000 people	1.2	1.4	-20.02	-38.00
Community Park (16-150 acres)	4	0	0	325.8	0	0	325.8	1.5 ac/1,000 people	3.6	3.6	-190.5	-190.5
TOTAL	36	3	0	439.8	17.98	0	458.67				5.35	4.43

TABLE 8. HPARD LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Another way to measure the level of service provided by parks is by looking at a "walkable" distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ Project study mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map showing in Figure 7 was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project. The areas in green on the map in Figure 7 represent the area within ½ mile of existing parks not blocked by freeways or major roads. Roughly 13% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, which is significantly lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector.

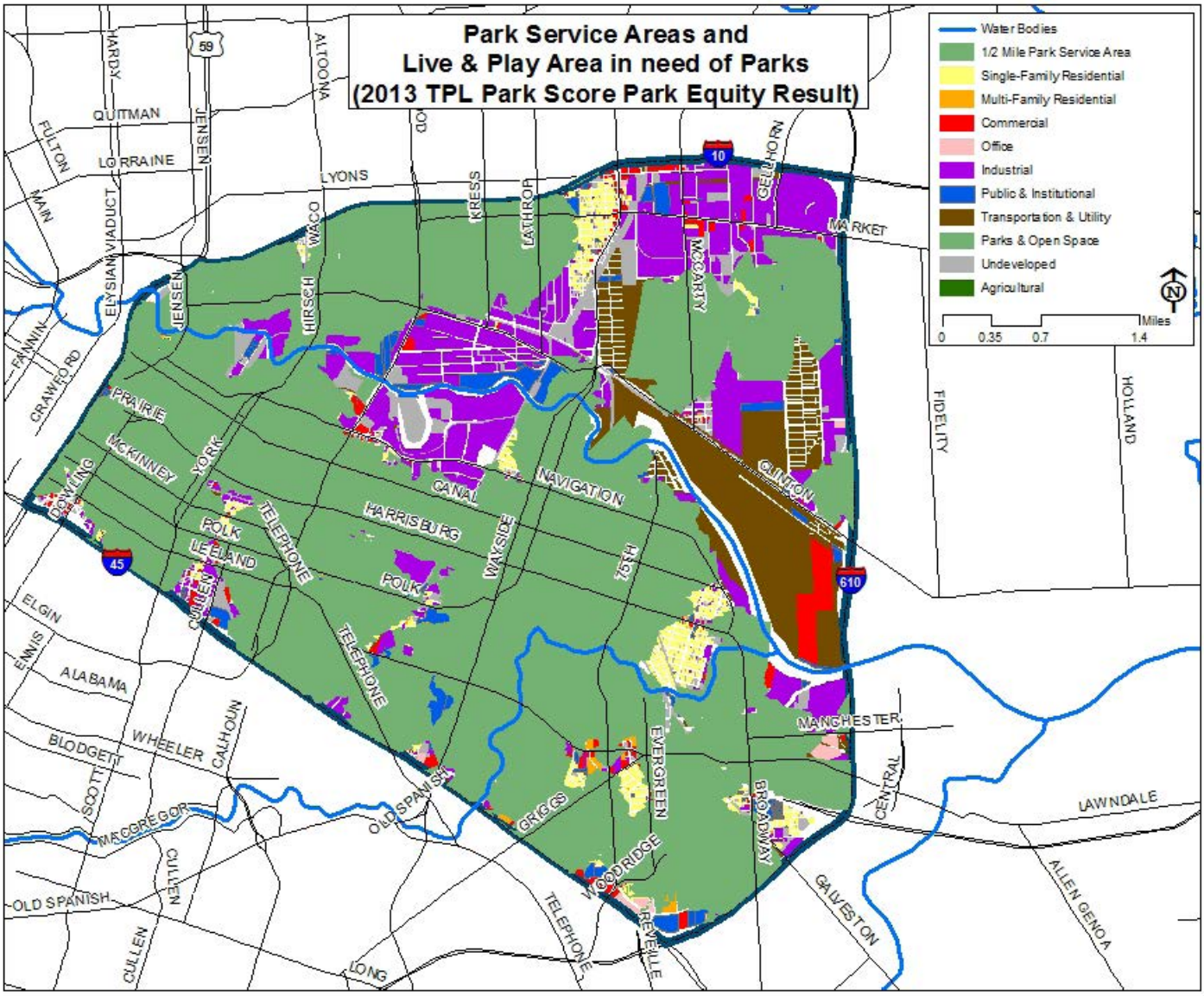


FIGURE 7. PARK SECTOR 11 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

AMENITIES AND SERVICES

This map shows some of the community services available in this area: community centers, health centers, transit centers, schools, libraries, YMCAs, and Boys and Girls Clubs. There are nine community centers located in Park Sector 11: De Zavala, Eastwood, Finnigan, Ingrando, Mason, Robinson (J., Sr.), Selena Quintanilla, Perez at Denver Harbor, Settegast, and Swiney Community Centers.

The Denver Harbor Multi-Service Center provides many services, such as: literacy programs, food programs, senior programs, parenting classes, Women Infants and Children (WIC) program, and a short-term rental assistance program. The Magnolia Multi-Service Center is also located in this Park Sector and offers: senior programs, a variety of classes, WIC program, dental services program and assistance referrals, primary health care, and speech therapy and testing. The Ripley House is a Neighborhood Center that provides a variety of services that include: classes, health and wellness services, tax assistance, citizenship classes, after-school programs, summer day camps, seniors programs, and education through a charter school program. The Community Family Center is a non-profit organization that offers bilingual services in: adult education, family support services, early childhood education, and youth services. The libraries in this Park Sector provide computer access, community meeting space, and educational programs.

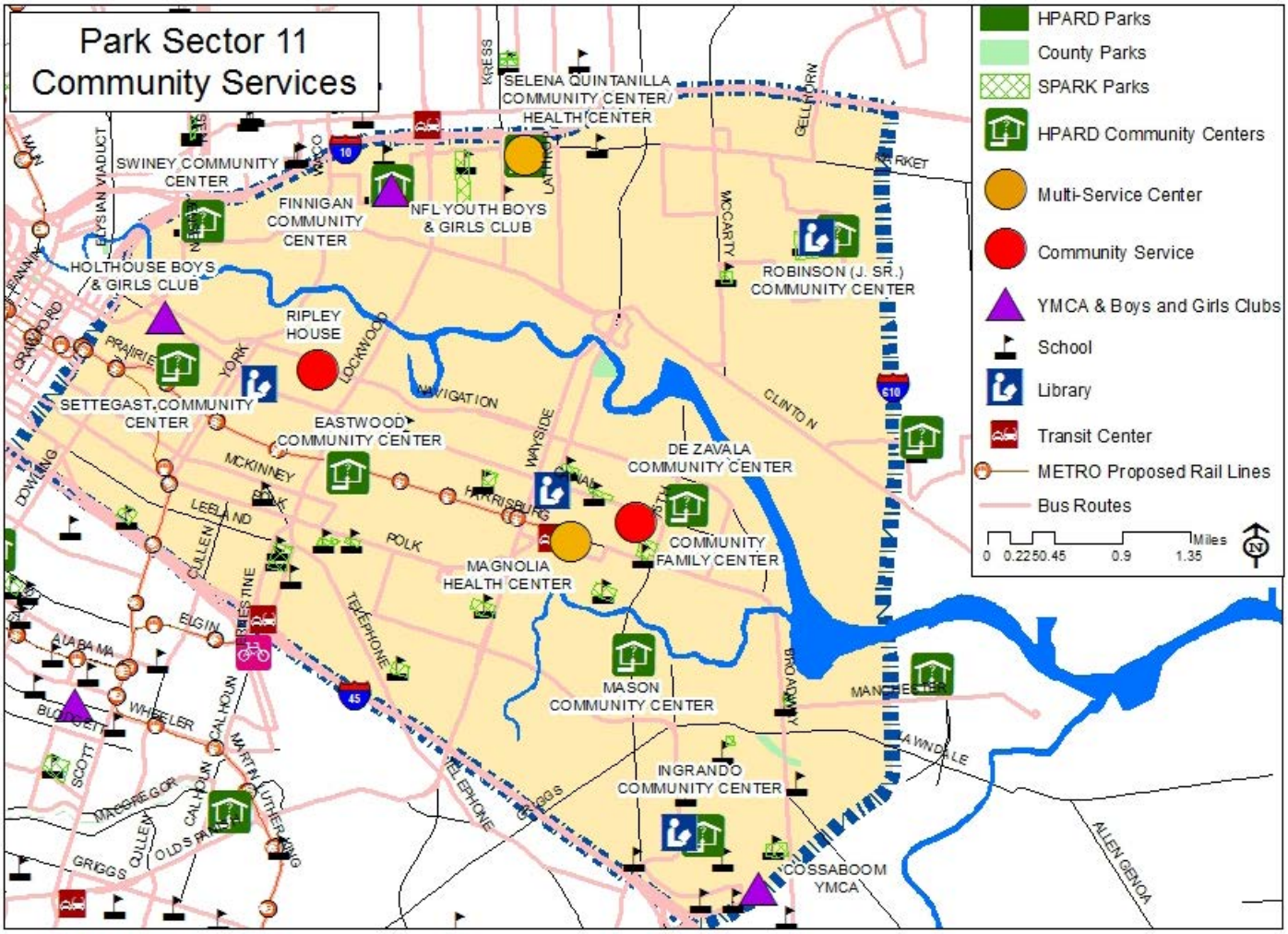


FIGURE 8. PARK SECTOR 11 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities - Level of Service

The 2007 HPARD standards by amenity have been applied to the amenities in Park Sector 11. The first column after the recommended HPARD standards indicates the level of service (LOS) accounting for HPARD facilities only, the total inventory standard accounts for facilities from all providers. The standard for each amenity is then compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these recommended HPARD standards, Harris County and other providers are meeting the needs of the residents for playgrounds, picnic shelters, outdoor basketball courts, tennis courts, skate parks, community centers, swimming pools, outdoor spraygrounds, ball fields, soccer fields, and dog parks. This Park Sector is deficient in trails (2 miles), and volleyball courts (1).

	HPARD	Harris County	Other Providers	Total	Recommended HPARD Standard		Current HPARD Level of Service		Current Total Inventory Level of Service		HPARD NEEDS Over/ Under Service	Total Inventory NEEDS Over/ Under Standard
							Population		90,242			
Playgrounds	15	0	17	32	1	4,000	1	6,016	1	2,820	8	-9
Picnic Shelters	14	0	4	18	1	10,000	1	6,446	1	5,013	-5	-9
Trails	14.5	0	1.76	16.2	0.2	1,000	0.16	1,000	0.18	1,000	4	2
Outdoor Basketball Courts	14	0	14	28	1	12,000	1	6,446	1	3,223	-6	-20
Tennis	10	0	4	14	1	10,000	1	9,024	1	6,446	-1	-5
Volleyball	1	0	0	1	1	50,000	1	90,242	1	90,242	1	1
Dog Parks	1	0	0	1	1	100,000	1	90,242	1	90,242	0	0
Skate Parks	1	0	0	1	1	100,000	1	90,242	1	90,242	0	0
Community Centers	9	0	0	9	1	30,000	1	10,027	1	10,027	-6	-6
Swimming Pools	6	0	0	6	1	50,000	1	15,040	1	15,040	-4	-4
Outdoor Spraygrounds	4	0	0	4	1	100,000	1	22,561	1	22,561	-3	-3
Baseball (Lit & Unlit)	20	0	2	22	1 field	30,000	1	4,512	1	4,102	-17	-19
Softball (Lit & Unlit)	3	0	0	3	1 field	30,000	1	30,081	1	30,081	0	0
Soccer (Lit & Unlit)	7	0	3	10	1 field	10,000	1	12,892	1	9,024	2	-1

TABLE 9. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 11
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- Diez Park baseball fields were renovated in 2012 as part of a partnership with the Houston Astros. The scope of work included field grading, new skin area for the infields, new sod for the outfields, irrigation system, replacing outfield fencing, and re-painting foul poles.
- Guadalupe Plaza Park will be renovated to include a new splash pad, promenade, and stage area. This project is expected to be completed in 2016.
- Hidalgo Park received $530,530 for a new parking lot, decomposed granite walkway, concrete walks, electrical upgrades, lighting, and storm drainage. The work was completed in 2014.
- Ingrando Park's three baseball fields were renovated in May 2013 as part of a partnership with the Houston Astros. The scope of work included field grading, new skin area for the infields, new sod for the outfields, irrigation system, replacing outfield fencing, and re-painting foul poles.
- A bridge will be constructed in Mason Park across Brays Bayou, which will tie one side of Mason Park to the other, via a roughly 400-foot, $4.5 million bridge. This bridge will also help to fill a missing gap in the Brays Bayou trail system, complemented by the construction of TIGER funded trail segments along Brays Bayou.
- Robinson (J., Sr.) Park is in design phase for a renovation that will include a new community center, parking, sports field, and plans for connectivity to the various park amenities, school and trail.

SUPPLEMENTAL MAPS:

Park Sector 11 Council Districts

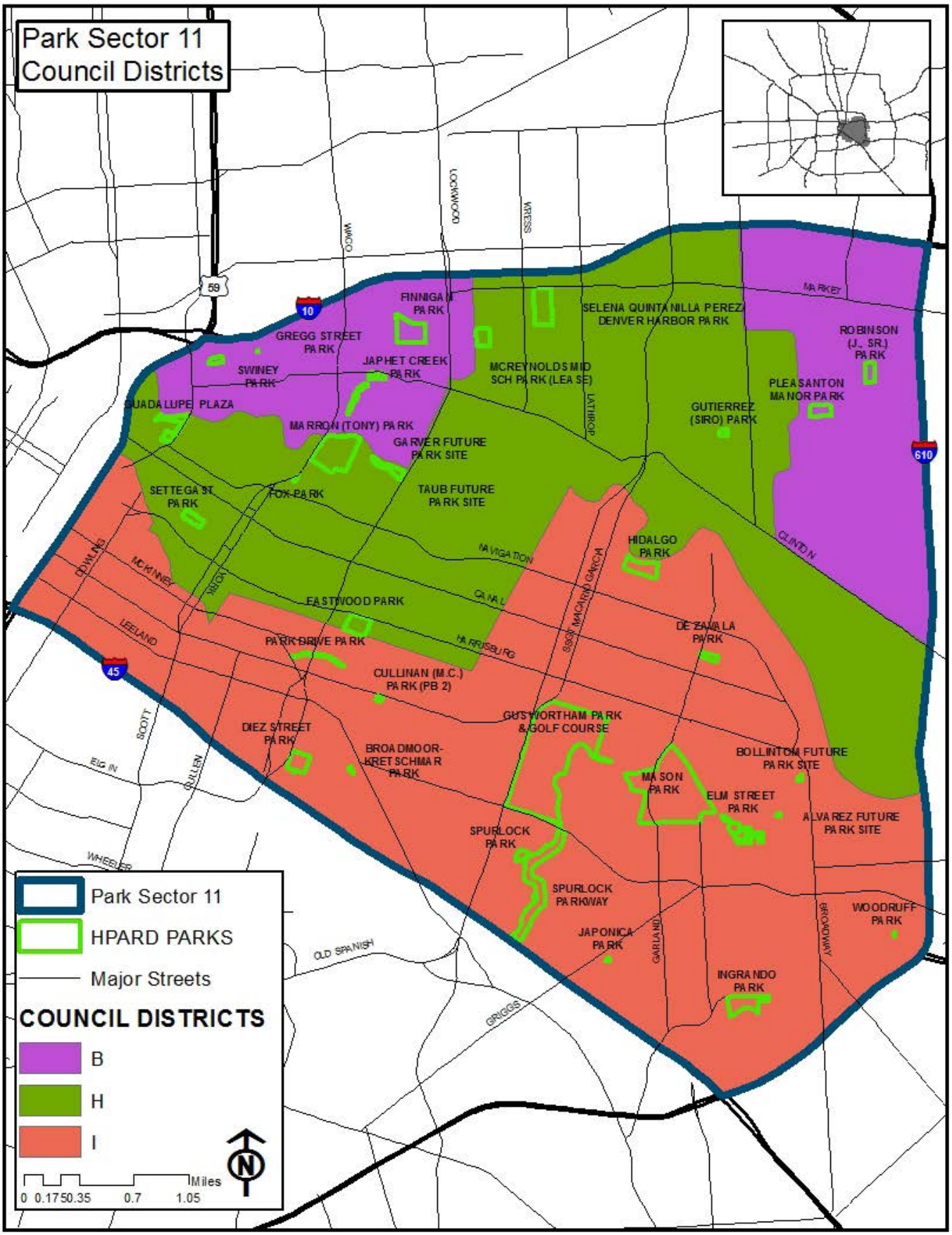


FIGURE 1: PARK SECTOR 11 COUNCIL DISTRICTS

Park Sector 11 Tax Increment Reinvestment Zone (TIRZs) and Management Districts

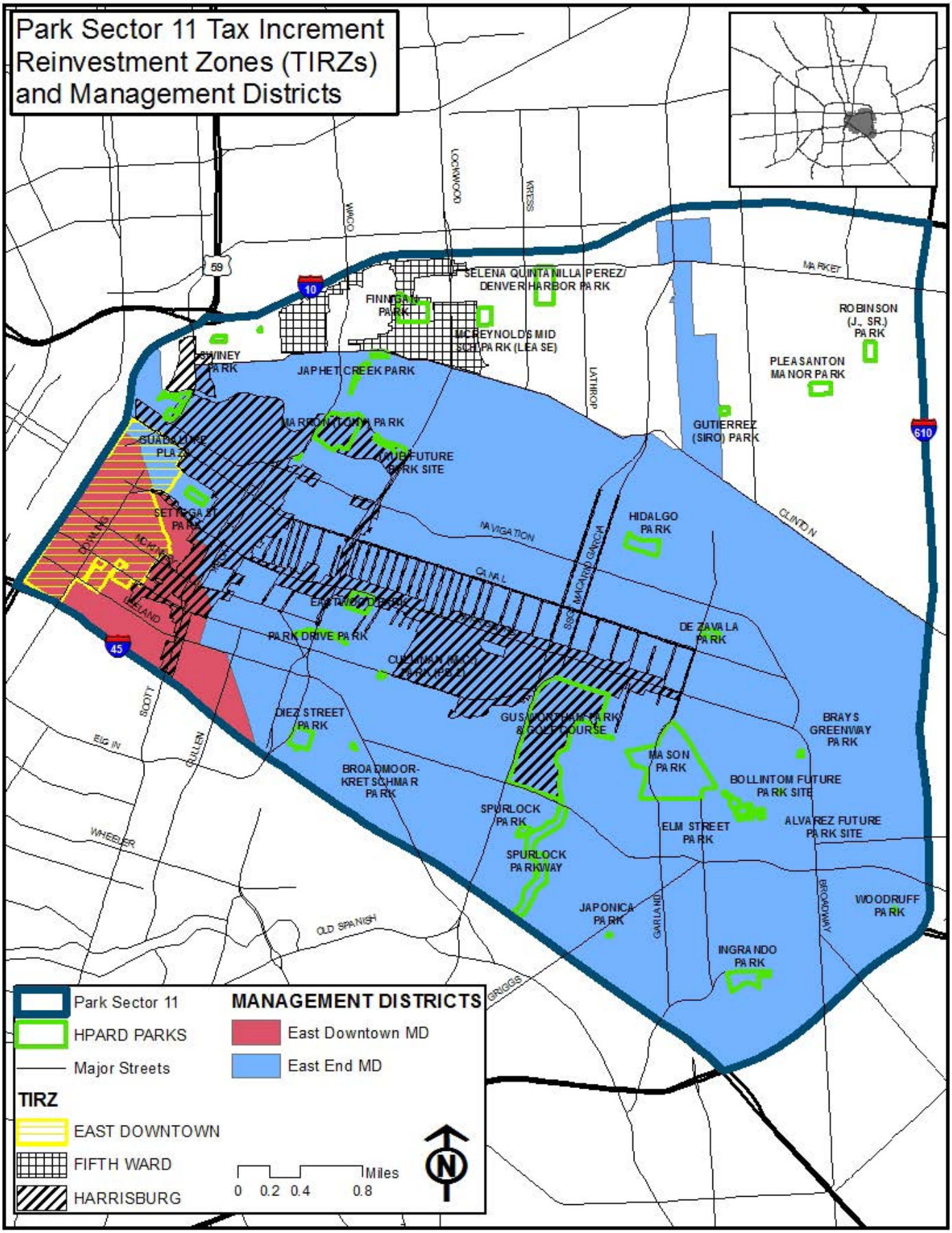


FIGURE 2: PARK SECTOR 11 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 11 Super neighborhoods

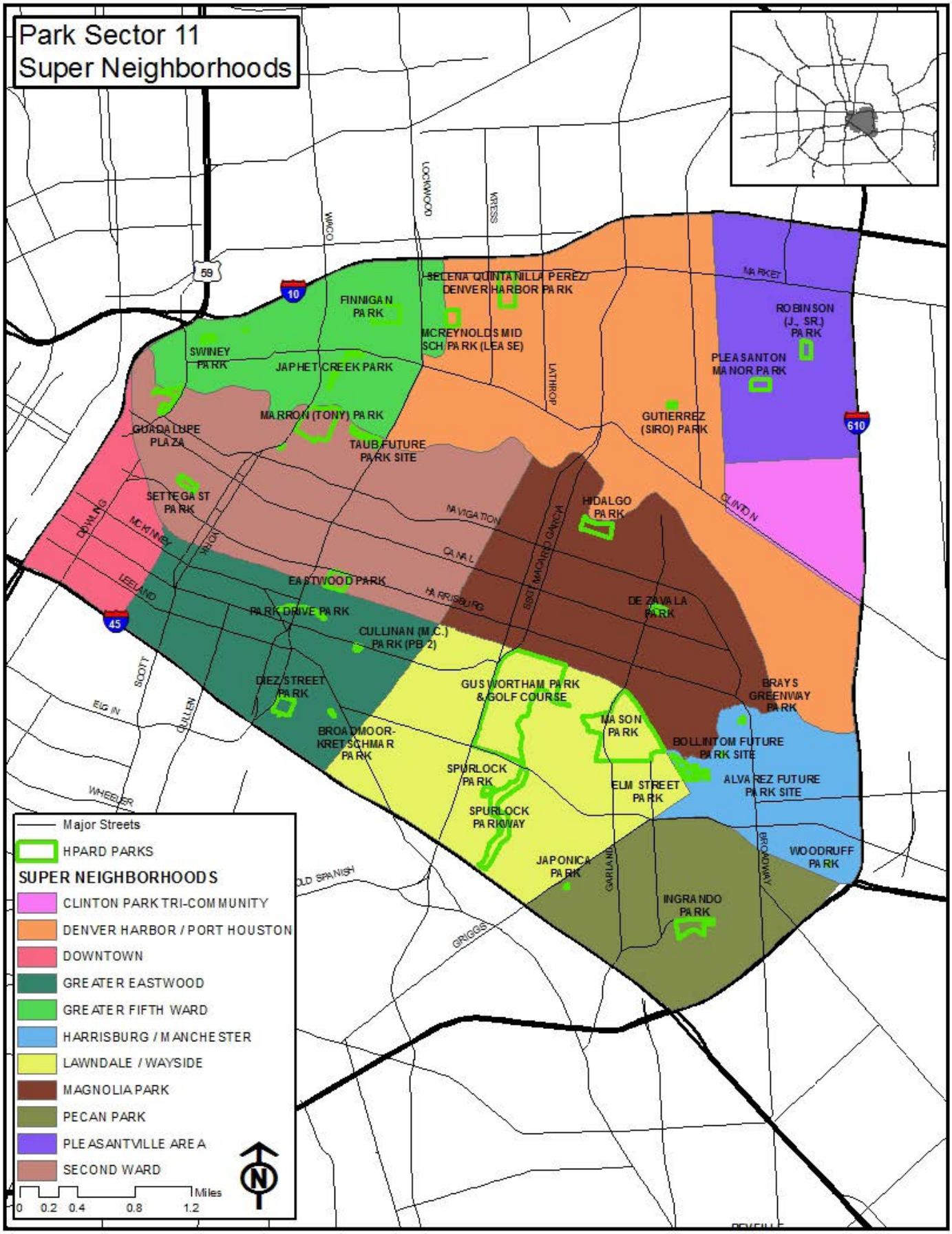


FIGURE 3: PARK SECTOR 11 SUPER NEIGHBORHOODS

Park Sector 11 Floodplain Areas

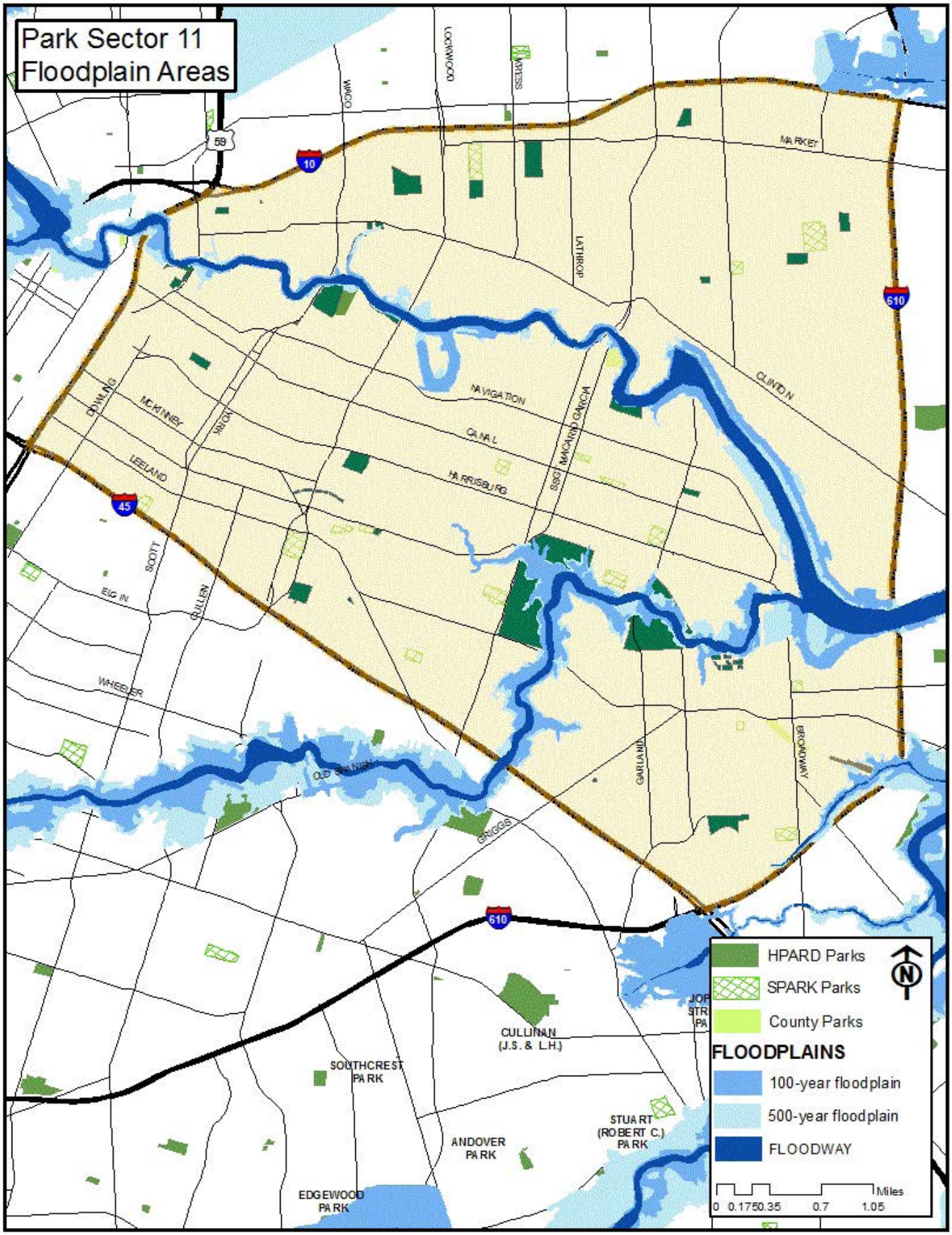


FIGURE 4: PARK SECTOR 11 FLOODPLAIN AREAS

PARK SECTOR 12

PARK SECTOR 12 SUMMARY

PARK SECTOR 12 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and data provided by the Trust for Public Land ParkScore™ Project), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Acquire new parkland
2. Develop Neighborhood connections to parks and trails
3. Revitalize existing parks
4. Preserve environmentally sensitive areas
5. Develop new park facilities
6. Develop partnerships with the school system and other entities

RECOMMENDATIONS

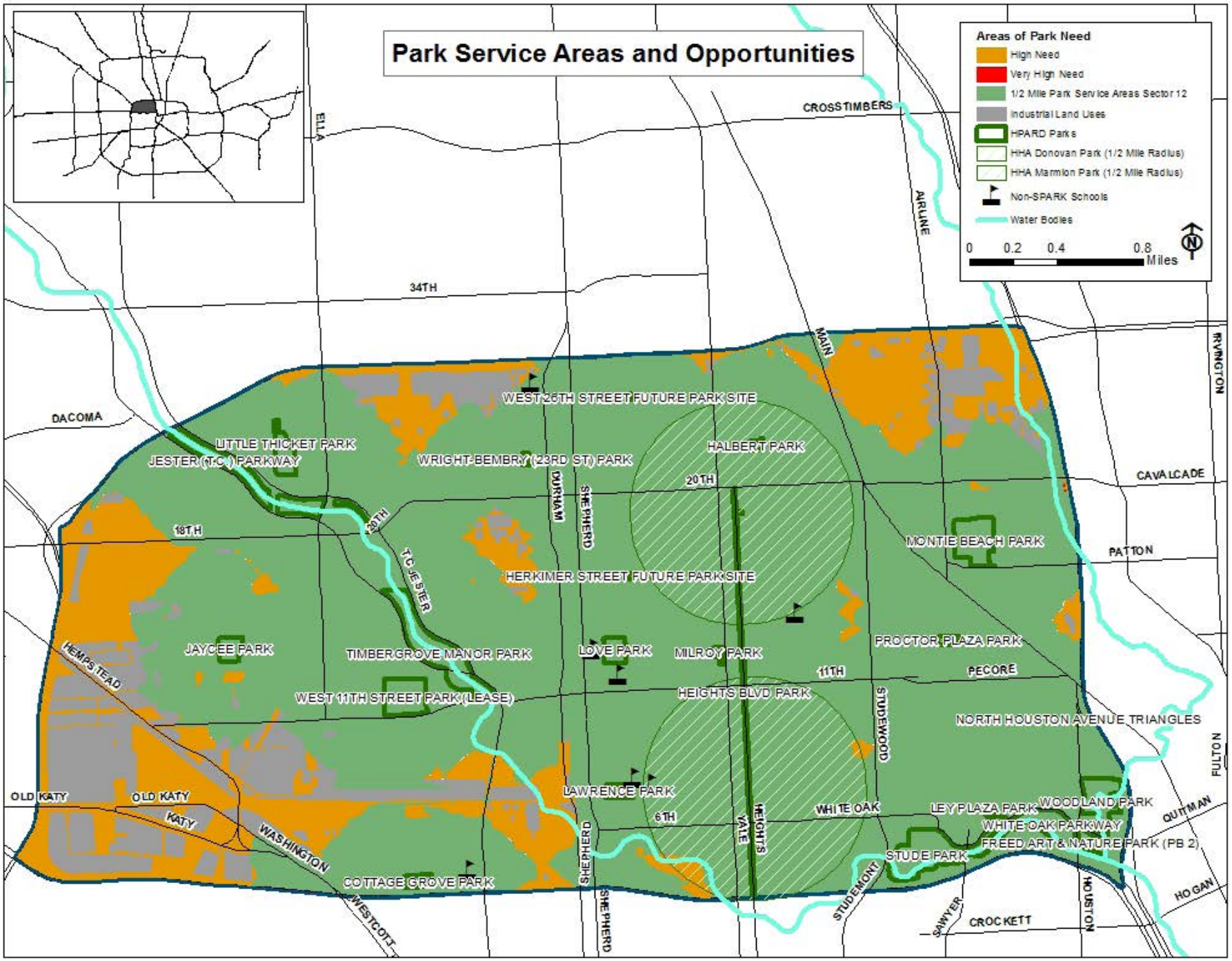
The parks in Park Sector 12 that have the highest need for redevelopment are listed from greatest need to least need: Lawrence Park, Little Thicket Park, and Love Park.

An additional 3 acres of parkland are needed in this Park Sector. While the majority of the Park Sector is served by parks within half a mile, there are some areas of need in the northeast and southwest portions of the Park Sector. Higher density residential development has increased in the area and growth continues east of TC Jester Boulevard and along the Shepherd Drive corridor. Schools not participating in the SPARK School Park Program (Non-SPARK schools) should be explored as potential future partnerships for park space. Portions of this Park Sector are served by two Tax Increment Reinvestment Zones (TIRZs) and one Management District, which have been partners in the past and should continue to be pursued to help meet the need for parkland acquisition, improvements, and maintenance.

This Park Sector is deficient in picnic shelters, dog parks, skate parks, and soccer fields. In addition to the existing 16 miles of trails, the projects in progress through Public Works and Engineering, the Houston Parks and Recreation Department (HPARD), and Bayou Greenways 2020 (BG2020 Initiative) will close gaps in the White Oak Bayou trail and connect to the MKT trail to allow off-street access along White Oak Bayou north of IH-610 to downtown.

In the 2014 survey, the top three priorities of residents in Park Sector 12 when asked what recreational needs existed in their Neighborhood were: hike, bike and walk trails (64.3%), dog parks (45.8%), and open space and natural areas (42.4%). Other services and amenities that residents asked for in the write-in portion of the survey were: fitness programs, swim lessons, dance or theater programs, arts and crafts programs, archery programs, outdoor environmental education and camping, community gardens, yoga and tai chi, and natural areas.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Online Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector


Park Service Areas and Opportunities
Areas of Park Need
High Need
Very High Need
1/2 Mile Park Service Areas Sector 12
Industrial Land Uses
HPARD Parks
HHA Donovan Park (1/2 Mile Radius)
HHA Marmion Park (1/2 Mile Radius)
Non-SPARK Schools
Water Bodies
0 0.2 0.4 0.8 Miles
N
CROSSTIMBERS
ELLA
AIRLINE
MAIN
RYNGTON
34TH
DACOMA
WEST 26TH STREET FUTURE PARK SITE
LITTLE THICKET PARK
JESTER (T.C.) PARKWAY
WRIGHT-BEMBRY (23RD ST) PARK
HALBERT PARK
DURHAM
SHEPHERD
20TH
CAVALCADE
18TH
T.C. JESTER
MONTIE BEACH PARK
PATTON
HERKIMER STREET FUTURE PARK SITE
JAYCEE PARK
TIMBERGROVE MANOR PARK
LOVE PARK
MILROY PARK
PROCTOR PLAZA PARK
HEMPSTEAD
11TH
PECORE
WEST 11TH STREET PARK (LEASE)
HEIGHTS BLVD PARK
STUDEWOOD
NORTH HOUSTON AVENUE TRIANGLES
FULTON
OLD KATY
KATY
WASHINGTON
LAWRENCE PARK
6TH
WHITE OAK
LEY PLAZA PARK
WOODLAND PARK
QUITMAN
YALE
HEIGHTS
WHITE OAK PARKWAY
FREED ART & NATURE PARK (PB 2)
STUDE PARK
COTTAGE GROVE PARK
WESTCOTT
STUDEMONT
SAWYER
CROCKETT
HOUSTON
HOGAN

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Herkimer Street Future Park Site	1500	Herkimer Street	0.40	N/A
North Houston Ave. Triangles	3200	Houston Ave/North Fwy	0.50	N/A
West 26th Street Future park site	437	West 26th Street	0.15	N/A
Total HPARD Pocket Park Acreage			**1.05**	
Neighborhood Parks				
Cottage Grove Park	2100	Arabelle	5.15	N/A
Freed Art and Nature Park (PB 2)	1400	White Oak Parkway	6.15	N/A
Halbert Park	200	East 23rd St	1.30	N/A
Jaycee Park	1300	Seamist	7.53	0.50
Lawrence Park	725	Lawrence	4.40	N/A
Ley Plaza Park	1900	White Oak Dr	1.00	N/A
Little Thicket Park	1831	West 23rd St	10.60	N/A
Love Park	1000	West 12th St	7.74	0.20
Milroy Park	1205	Yale	2.15	N/A
Proctor Plaza Park	803	W Temple	2.77	N/A
Timbergrove Manor Park	1500	West TC Jester	11.00	0.88
Wright-Bembry (23rd St) Park	850	West 23rd Street	1.08	N/A
Total HPARD Neighborhood Park Acreage			**60.87**	
Community Parks				
Montie Beach Park	915	Northwood	23.00	0.84
Stude Park	1031	Stude	42.40	0.70
West 11th Street Park	2600	West 11th Street	20.21	Natural*
Woodland Park	212	Parkview	19.67	0.32
Total HPARD Community Park Acreage			**105.3**	
Corridor/Linear Parks and Greenways				
Heights Blvd. Park	100-1900	Heights Blvd	**11.30	1.80
Jester (T.C.) Parkway	4201	TC Jester West	***32.00	N/A
White Oak Parkway	1513	White Oak Blvd	23.20	0.93
Total HPARD Park Acreage			**233.70**	
Urban Trails and Shared Use Paths				
MKT/Heights Hike and Bike Trail				3.36
White Oak Bayou Trail				2.10
Houston Heritage West (including MKT to Stude Park connector)				1.48
MKT to WOB Connector				1.00
Little White Oak Bayou (PWE maintained trail)				0.35
Total HPARD Trail Length				**14.53**

*There are natural trails in West 11th Street Park, however, they have not been measured by staff.
**Heights Boulevard Park north of I-10 has been used and maintained as a park; it is currently under an adoption agreement for maintenance with the Heights Association. South of White Oak Bayou Heights Boulevard Park has acted more like an esplanade; however, recently Walmart has adopted these 3 acres and constructed a granite trail.
***This acreage is for the portion of TC Jester Park located inside Park Sector 12 only. HPARD maintains the White Oak Bayou Trail and the flat areas along White Oak Bayou. The acreage listed includes the channel, the slopes and the flat areas as well as the trail. According to HCAD, 29 acres belong to HCFCD and 2 acres belong to HPARD. There is an interlocal agreement between the HCFCD and the City of Houston, nonetheless, the acreage might need to be revised. The miles of trail that go through TC Jester Park are already accounted for in the White Oak Bayou Trail miles section of Table 4.

EXISTING COMMUNITY CENTERS AND POOLS

Community Centers and Pool Facilities	Address	Zip Code	Agency Responsible
Love Community Center and Pool	1000 West 12th Street	77008	HPARD
Milroy Community Center	1205 Yale	77008	HPARD
Montie Beach Community Center	915 Northwood	77009	HPARD
Proctor Community Center	803 West Temple	77009	HPARD
Stude Community Center and Pool	1031 Stude	77009	HPARD
Woodland Community Center	212 Parkview	77009	HPARD

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger).The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Approximately 15% of the area in this Park Sector is in need of parkland accessible within a ½ mile, as compared to the 55% of the population of the City of Houston who need park access. Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains 235 acres of parkland (Harris County, HPARD & other providers). Of the 7,160 acres in this Park Sector, 3% of this acreage is parkland.
- There are approximately 54,000 residents. There is a higher percentage (54%) of White residents compared to the city as a whole of (26%) and a higher percentage of adults (20-54 yrs) and seniors (55 and older) as compared to the rest of the city.
- An additional 3.2 acres of parkland are needed in this Park Sector. This is based on the current population (2010 US Census) of the Park Sector and needs assessment done for Pocket, Neighborhood and Community parks (number of acres per 1,000 people).
- The map shows need for parkland in the northern and western portions of the Park Sector. Higher density residential development has increased in the area and growth continues east of TC Jester Boulevard and along the Shepherd Drive corridor.
- H-GAC population projections estimate that this area will add over 35,000 residents by 2040. To meet the parkland needs for the estimated 2040 population an additional 23 acres of parkland will be needed.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and amenity standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	18	5	17	13	9	1	1	1	6	2	2	6	3	5
2015 Existing	18	4	17*	13	9	1	0	0	6	2	2	6	3	4
2015 Needed	-	1	-	-	-	-	1	1	-	-	-	-	-	1
2040 Needed	1	4	-	-	-	1	-	-	-	-	-	-	-	4

* This number includes 1 mile of trail connectors currently planned or under construction along White Oak Bayou under the Bayou Greenways Initiative, BG2020.

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.

2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.

3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.

4. Annual Operation & Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$5,000,000	3 Acres- $3,000,000	$24,600,000	$4,000,000
2040	$4,000,000	23 Acres- $17,000,000	$52,000,000	$2,000,000
TOTAL 2040	$9,000,000	26 Acres- $20,000,000	$76,600,000	$6,000,000

PARK SECTOR PROFILE 12

LOCATION AND POLITICAL BOUNDARIES

Park Sector 12 is located inside the 610 loop, north of I-10, and west of 45.
Park Sector Size: 7,160 acres or 11.2 square miles
Population: 54,149 people, Density: 4,834 persons/sq. mi.
Political Boundaries within Park Sector 12:

- Council Districts: C and H
- Super neighborhoods contained in this Park Sector: Washington Avenue Coalition/ Memorial Park, Lazy Brook/ Timbergrove, and Greater Heights
- TIRZ: Memorial Heights and City Park
- Management Districts: Greater Northside

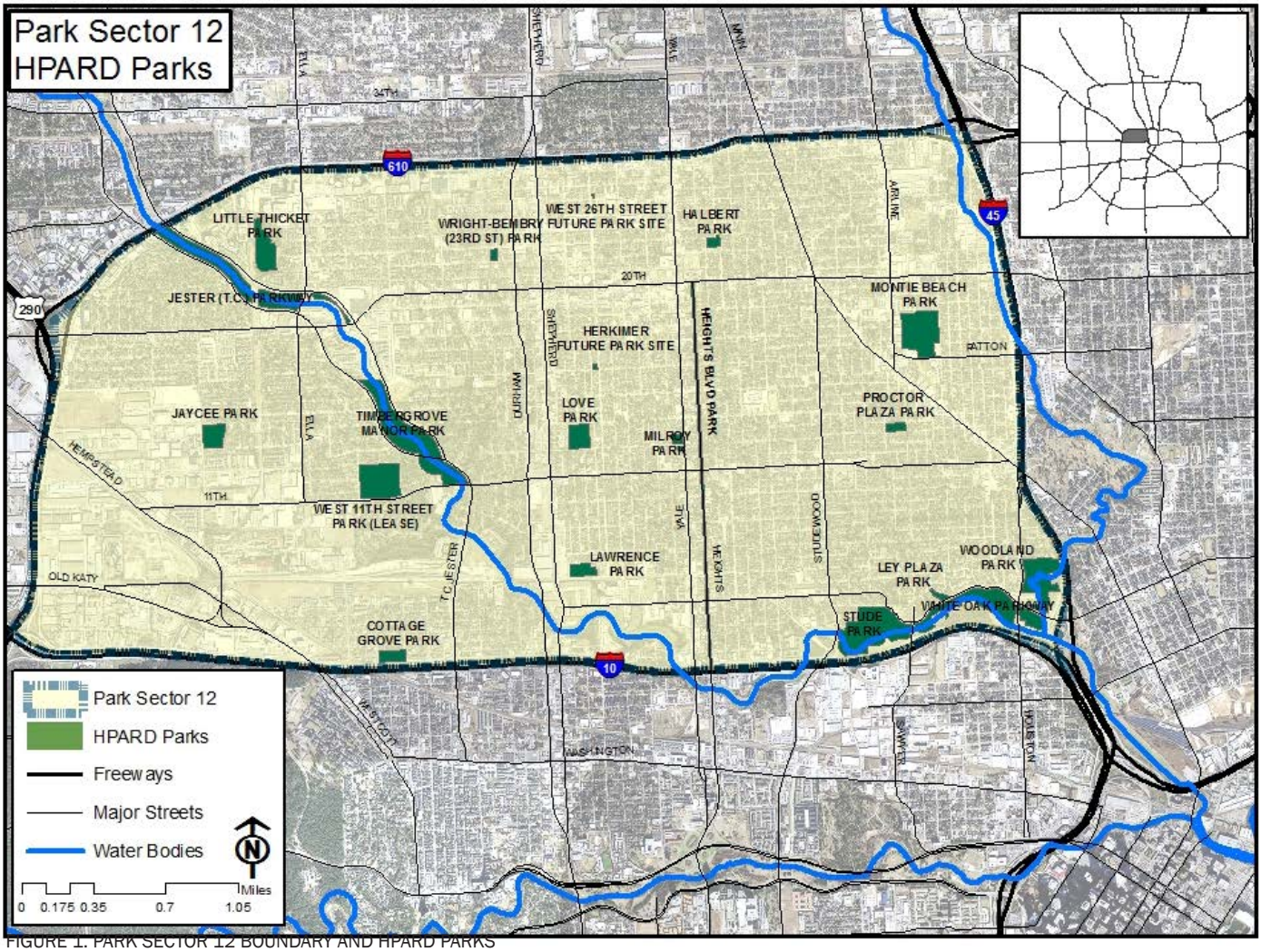


FIGURE 1. PARK SECTOR 12 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 12 Population	Park Sector 12 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**54,149**	-	2,119,831	-
Hispanic or Latino	20,436	37.7%	919,668	43.8%
Non-Hispanic White	29,171	53.9%	537,901	25.6%
Non-Hispanic Black	2,094	3.9%	485,956	23.1%
Non-Hispanic American-Indian	109	0.2%	126,098	6.1%
Non-Hispanic Asian	1,466	2.7%		
Non-Hispanic Hawaiian or Pacific Islander	17	0.0%		
Non-Hispanic Some Other Race	856	1.6%	26,828	1.3%

TABLE 1. PARK SECTOR 12 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains about 2.6% of the population of Houston; the majority (54%) of the residents are Non-Hispanic Whites, followed by Hispanic/Latinos (38%), with non-Hispanic Blacks and Non-Hispanic Asians making up another 7% of the population. The census tracts west of Durham Street in the Park Sector are some of the most densely populated in the Park Sector; however about 65% of the population lives in the area east of Durham Street.

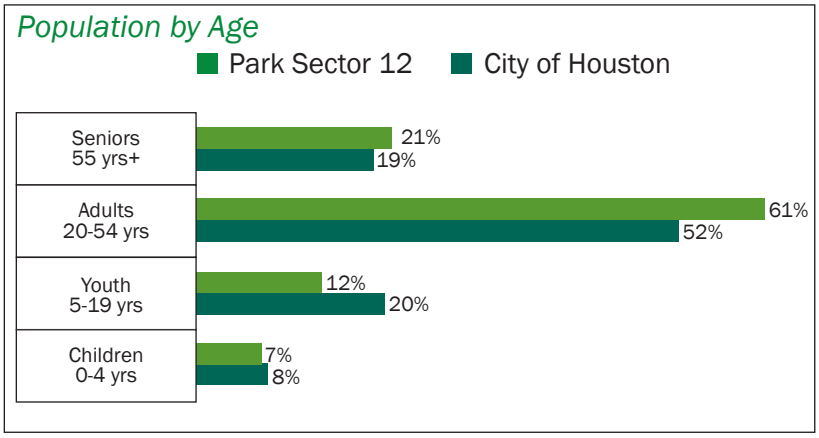


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 12 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that the percent of population under 19 (19%) is significantly lower than that of the rest of the city (28%). 5-19 year olds are the group that is significantly lower than the rest of the City of Houston in the under 19 population. Further age breakdown of the age groups reveals that the percent of adults aged 20-54 years (61%) is higher than that of the rest of the City of Houston (52%). These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 12 Population	PS 12 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	3,743	7%	7%	166,066	8%	8%
Youth	5-9 yrs	2,565	5%	12%	148,843	7%	21%
	10-14 yrs	1,990	4%		135,622	7%	
	15-19 yrs	1,905	3%		140,673	7%	
Adults	20-34 yrs	16,234	30%	61%	539,348	26%	52%
	35-44 yrs	9,171	17%		286,117	14%	
	45-54 yrs	7,748	14%		265,060	13%	
Senior	55-64 yrs	6,144	11%	21%	204,852	10%	19%
	65 yrs +	5,089	9%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 12 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 28,739 housing units in this Park Sector. The percent of vacant housing in Park Sector 12 (10%) is lower in this Park Sector than as compared to the vacancy rates for the entire city (12%). The home ownership rate (48%) for this Park Sector is higher than that of the City of Houston (40%).

Income

The median household income for this Park Sector is $42,375, which is slightly lower than the median household income of $48,322 for the rest of the city. Fifty-six (56%) of households in this Park Sector have an income below the Houston household median income.

Educational Attainment

Within Park Sector 12 the percent (45%) of individuals 25+ years of age with a Bachelor's degree or higher is significantly higher than the relative percent for the entire City of Houston (28%). The percentage of those with a high school diploma or less education level (35%) is significantly lower than the percentage (48%) of those within the same population for the City of Houston.

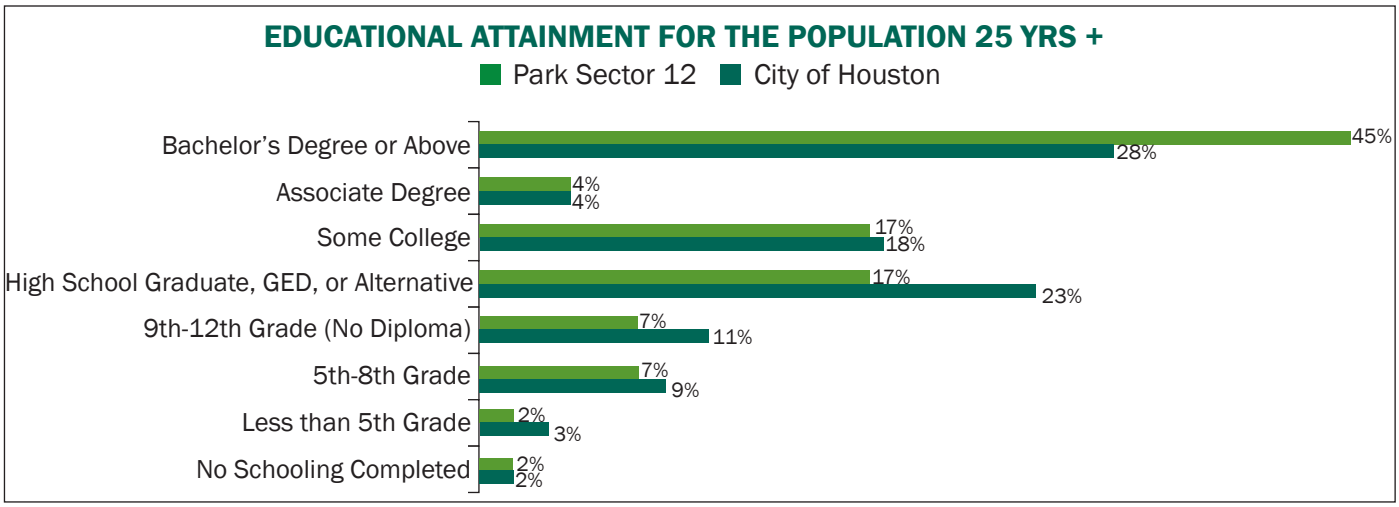


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 19.8% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that 5.2% of the adult population received a diagnosis of diabetes by a professional, which is below the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that over 30% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is higher than that of the entire city (32%). The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%.

Finally, the survey shows that 8.3% of the population does not engage in moderate physical activity at all, which is much lower than the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

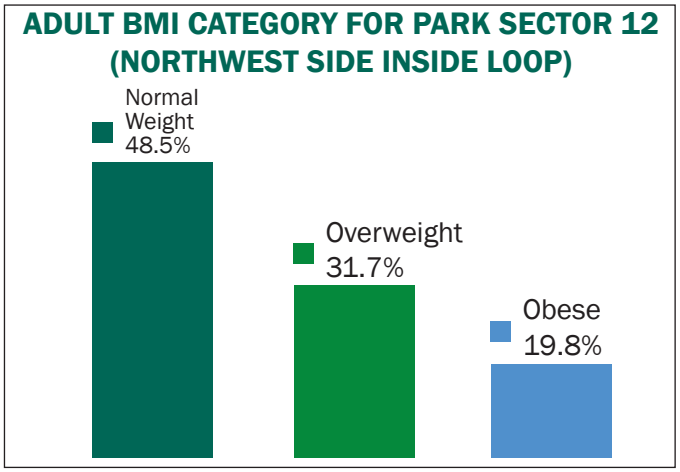


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	8.30
1	4.90
2	15.40
3	22.60
4	18.30
5	17.00
6	1.90
7	11.50

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	18,921	79.8%	2,489	49.6%
Multi-Family	986	4.2%	191	3.8%
Commercial	868	3.7%	400	8.0%
Office	102	0.4%	110	2.2%
Industrial	571	2.4%	782	15.6%
Public & Institutional	343	1.4%	333	6.6%
Transportation	45	0.2%	145	2.9%
Parks & Open Space	109	0.5%	108	2.1%
Undeveloped	2,656	11.3%	875	17.4%
Agriculture Production	38	0.2%	13	0.3%
TOTAL	23,717	100%	5,016	100%

TABLE 4. LAND USE BY DESCRIPTION (2013 HCAD)

This Park Sector is largely residential with 85% of the parcels and 53% of the land being single-family or multi-family. In the southwest of the Park Sector there is also a significant portion (16%) that is mostly industrial. This area of the city has experienced increased density mostly through infill in undeveloped land or subdivision of existing lots into smaller lots where townhomes are built. According to HCAD (2013), 17% of the acreage is undeveloped and as shown on the map most of the acreage is adjacent to the industrial areas. The Parks and Open Space acreage on HCAD is lower than the acreage maintained in the area; more details of existing parks will be provided on the following section.

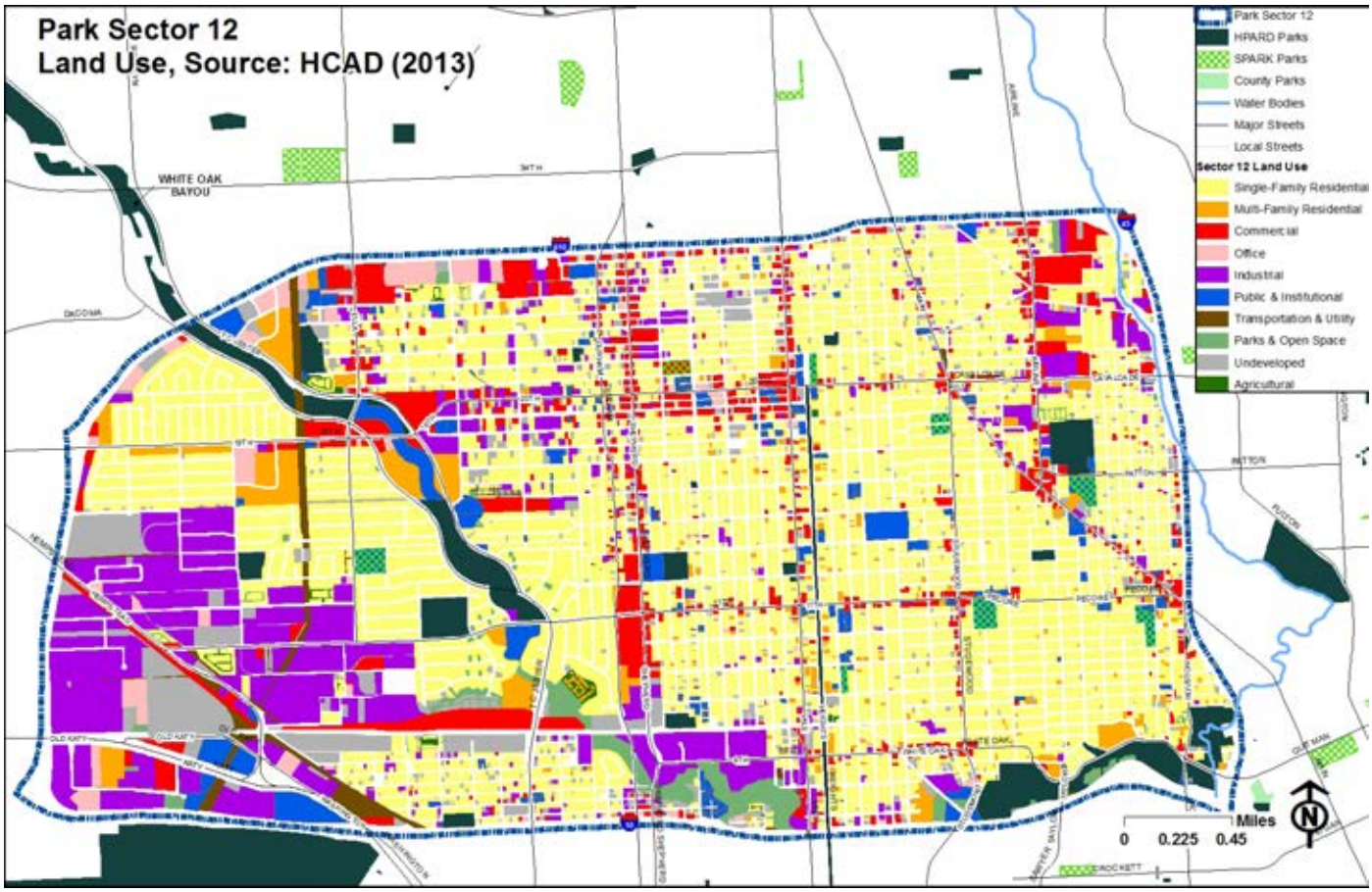


FIGURE 5. PARK SECTOR 12 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

HPARD PARKS AND TRAILS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Herkimer Street Future Park Site	1500	Herkimer Street	0.40	N/A
North Houston Ave. Triangles	3200	Houston Ave/North Fwy	0.50	N/A
West 26th Street Future Park Site	437	West 26th Street	0.15	N/A
Total HPARD Pocket Park Acreage			**1.05**	
Neighborhood Parks				
Cottage Grove Park	2100	Arabelle	5.15	N/A
Freed Art and Nature Park (PB 2)	1400	White Oak Parkway	6.15	N/A
Halbert Park	200	East 23rd St	1.30	N/A
Jaycee Park	1300	Seamist	7.53	0.5
Lawrence Park	725	Lawrence	4.40	N/A
Ley Plaza Park	1900	White Oak Dr	1.00	N/A
Little Thicket Park	1831	West 23rd St	10.60	N/A
Love Park	1000	West 12th St	7.74	0.20
Milroy Park	1205	Yale	2.15	N/A
Proctor Plaza Park	803	W Temple	2.77	N/A
Timbergrove Manor Park	1500	West TC Jester	11.00	0.88
Wright-Bembry (23rd St) Park	850	West 23rd Street	1.08	N/A
Total HPARD Neighborhood Park Acreage			**60.87**	
Community Parks				
Montie Beach Park	915	Northwood	23.00	0.84
Stude Park	1031	Stude	42.40	0.7
West 11th Street Park	2600	West 11th Street	20.21	Natural*
Woodland Park	212	Parkview	19.67	0.32
Total HPARD Community Park Acreage			**105.3**	
Corridor/Linear Parks and Greenways				
Heights Blvd. Park	100-1900	Heights Blvd	11.3**	1.8
Jester (T.C.) Parkway	4201	TC Jester West	32***	N/A
White Oak Parkway	1513	White Oak Blvd	23.20	0.93
Total HPARD Park Acreage			**233.7**	
Urban Trails and Shared Use Paths				
MKT/Heights Hike and Bike Trail				3.36
White Oak Bayou Trail				2.1
Houston Heritage West (including MKT to Stude Park connector)				1.48
MKT to WOB Connector				1
Little White Oak Bayou (PWE maintained trail)				0.35
Total HPARD Trail Length				**14.53**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 12

**There are natural trails in West 11th Street Park, however, they have not been measured by staff.*

***Heights Boulevard Park north of I-10 has been used and maintained as a park; it is currently under an adoption agreement for maintenance with the Heights Association. South of White Oak Bayou Heights Boulevard Park has acted more like an esplanade; however, recently Walmart has adopted these 3 acres and constructed a granite trail.*

****This acreage is for the portion of TC Jester Park located inside Park Sector 12 only. HPARD maintains the White Oak Bayou Trail and the flat areas along White Oak Bayou. The acreage listed includes the channel, the slopes and the flat areas as well as the trail. According to HCAD, 29 acres belong to HCFCD and 2 acres belong to HPARD. There is an inter-local agreement between the HCFCD and the City of Houston, nonetheless, the acreage might need to be revised. The miles of trail that go through TC Jester Park are already accounted for in the White Oak Bayou Trail miles section of Table 4.*

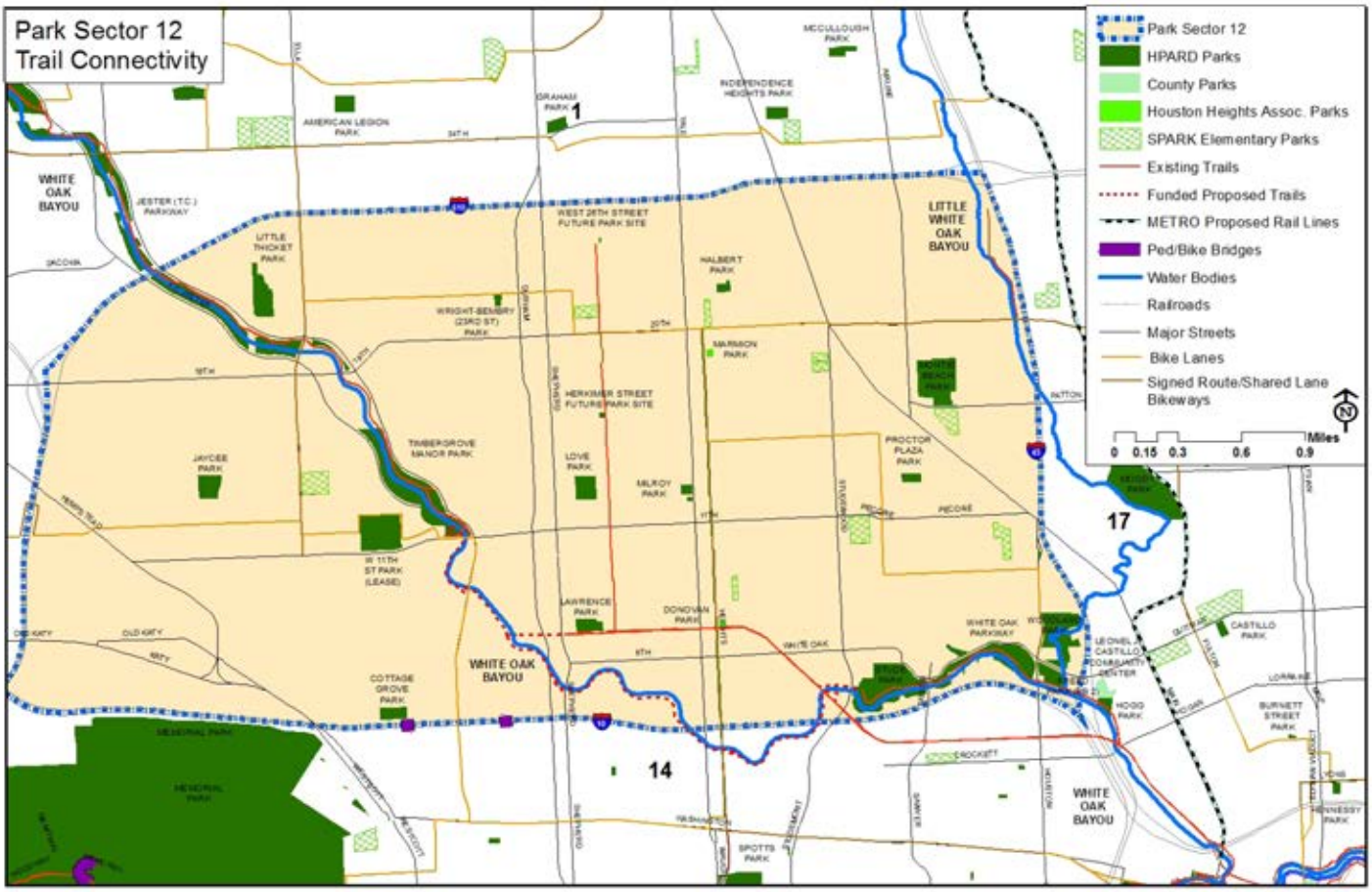


FIGURE 6. PARK SECTOR 12 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

The Houston Parks and Recreation Department operates 21 parks in the area accounting for 233.7 acres of parkland. The Houston Heights Association operates 2 parks in the area accounting for 1.13 acres of parkland. This Park Sector is served by two major trail systems (White Oak Bayou Trail and MKT Trail) which are accessible to a large portion of the residents. Through the TIGER grant the City of Houston will be building trail connections from the Houston Heritage/White Oak Bayou Trail and MKT Trails along the southwest of this Park Sector. Houston Heritage will connect to an existing network of on- street bike lanes and the MKT Trail will connect to the future North rail line providing a unique opportunity of transportations choices for residents in this area. Partnerships for maintenance responsibility of the White Oak Bayou Trail and the new trail connections with the TIRZ 5 – Memorial Heights and TIRZ 12- City Park and the Greater Northside Management District should be explored.

County Parks and Trails

There are no County Parks within Sector 12.

SPARK Parks

There are 6 Elementary Schools and 2 Middle Schools participating in the SPARK Program providing access to park space and a variety of amenities to the public.

SPARK Parks				
Facility Name	**Address**	**Street**	**Total Acres***	**Amenities**
Browning Elementary School	607	Northwood St	6.36	Playground
Field Elementary School	803	17th St	3.67	0.09 mi Trail, Playground, Basketball Pavilion
Hamilton Middle School	139	E 20th St	2.29	0.20 mi Trail, Soccer field, Multi-Purpose Field
Harvard Elementary School	810	Harvard St	1.82	Playground, Basketball Pavilion
Helms Elementary School	500	21st St	4.13	Playground, Multi-Purpose Field
Hogg Middle School	1100	Merrill St	7.61	0.19 mi Trail, Basketball Pavilion, Soccer Field
Sinclair Elementary School	6410	Grovewood Ln	8.36	0.25 mi Trail, Playground, Basketball Pavilion
Travis Elementary School	3311	Beauchamp St	5.12	0.11 mi Trail, Playground, Multi-Purpose Field
Total Acres*			**39.36**	

TABLE 6. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 12 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

Open and Green Space

To determine level of service, the 2007 Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by The Trust for Public Land ParkScore™ Project. The table below shows the level of service (LOS) based on the 2007 HPARD recommended standards of a number of acres per 1,000 people using the 2010 Census population. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 0.1 acres/1,000 people for a Pocket park, this Park Sector needs 3.23 acres of parkland. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 1 acre/1,000 people for a Neighborhood park, 1.5 acres/1,000 people and 1 acre/1,000 people for a corridor park, this Park Sector meets all these standards for Pocket, Neighborhood and corridor parks.

Park Type	HPARD Park Number	HC Park Number	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
									Population		54,149
Pocket Park (<1 acre)	3	0	1.05	0	1.13	2.18	0.001 ac/ 1,000 people	0.02	0.04	4.36	3.23
Neighborhood Park (1-15 acres)	13	0	72.17*	0	0	72.17	1 ac/1,000 people	1.33	1.33	-18.02	-18.02
Community Park (16-150 acres)	6	0	160.48**	0	0	160.48	1.5 ac/1,000 people	2.96	2.96	-79.26	-79.26
TOTAL	22	0	233.70	0	1.13	234.83	19 ac/1,000			4.36	3.23

TABLE 7. HPARD LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need.
*Includes acreage of Heights Blvd. Park.
**Includes acreage of TC Jester and White Oak Bayou Parks.

Another way to measure the level of service provided by parks is by looking at a "walkable" distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ Project study mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012).

The map shown in Figure 7 was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project. The areas in green on the map below represent the area within ½ mile of existing parks not blocked by freeways or major roads; the hatched area represents the service area of two publicly accessible (owned, developed and maintained by the Houston Heights Association) parks that were not accounted for when the Trust for Public Land (TPL) ParkScore™ data was produced. These parks only provide a small amount of coverage for areas of the Park Sector not served by a public park. Roughly 15% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, which is dramatically lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector.

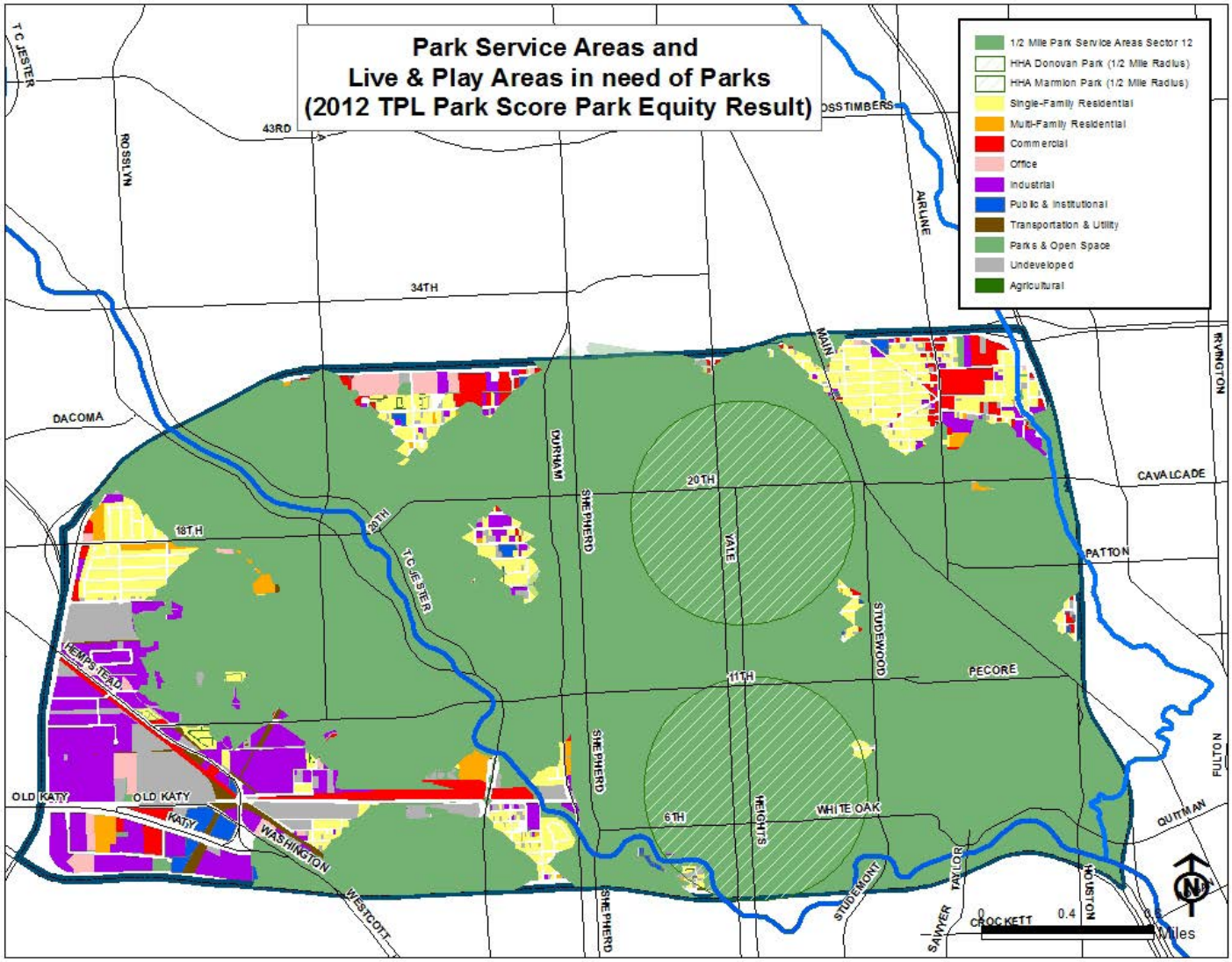


FIGURE 7. PARK SECTOR 12 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

AMENITIES AND SERVICES

This map shows some of the community services available in this Park Sector: community centers, a library, and a transit center. There are six HPARD community centers located in this Park Sector: Love, Milroy, Montie Beach, Proctor Plaza, Stude, and Woodland Community Centers.

Houston Area Community Services is a not-for-profit organization that provides affordable, quality medical care (including family, pediatrics and internal medical services and OB-GYN care), a pharmacy, behavioral health services, HIV/AIDS services, and living assistance to both individuals and families. The Houston Food Bank is a non-profit organization that engages in food distribution, aid in applying for social services such as food stamps, and offers a job training program for vulnerable populations such as children, the elderly, and veterans. The libraries in this Park Sector provide computer access, community meeting space, and educational programs.

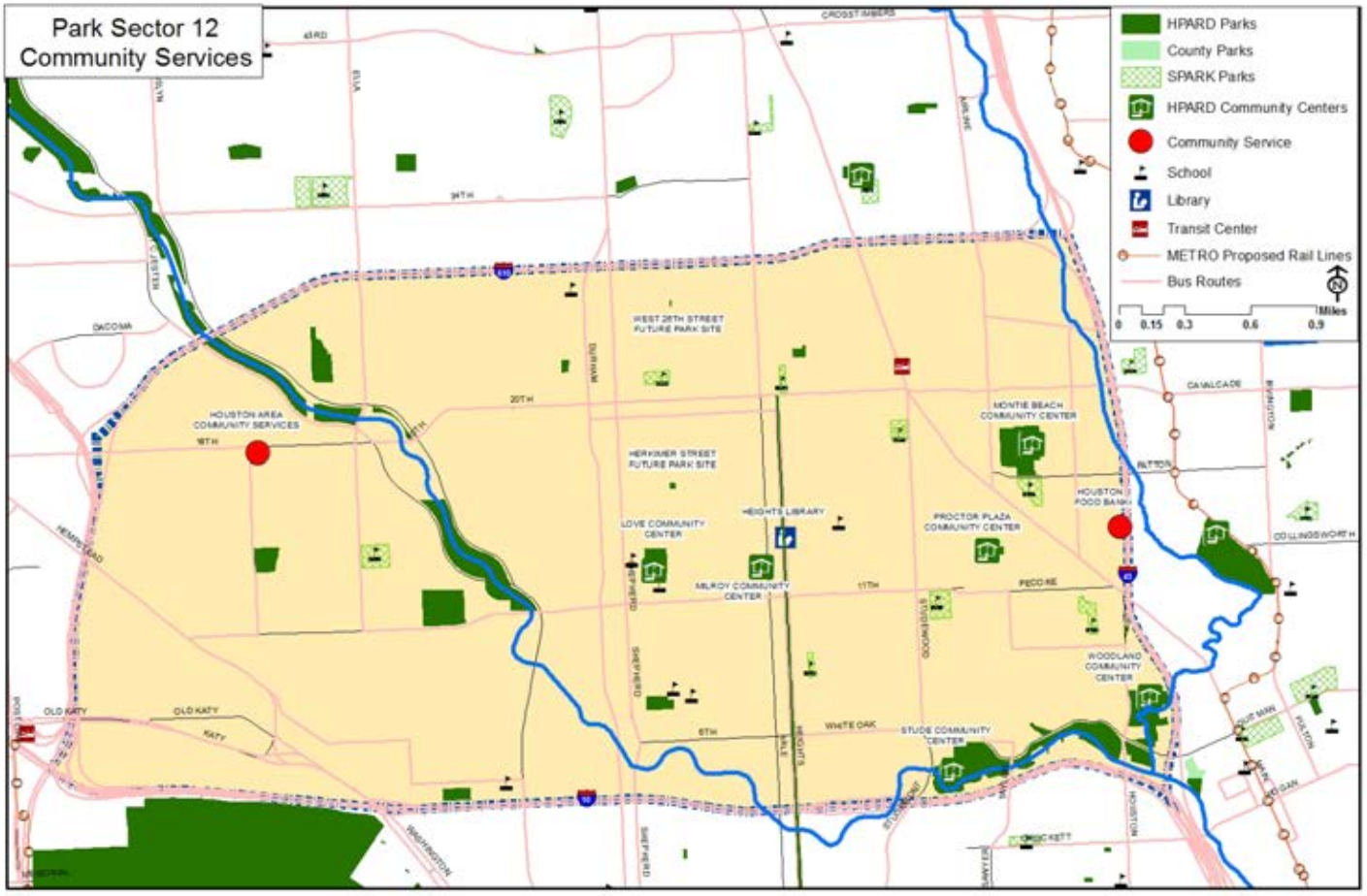


FIGURE 8. PARK SECTOR 12 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities - Level of Service

The HPARD standards by amenity have been applied to the amenities in Park Sector 12. The standard for each amenity is then compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these standards HPARD, Harris County, SPARK Parks and other providers are meeting the needs of the residents for the following facilities: playgrounds, basketball courts, tennis courts, volleyball courts, community centers, swimming pools, outdoor spray grounds, baseball fields, and softball fields. This Park Sector is deficient in picnic shelters (1), skate parks (1), dog parks (1), and soccer fields (1).

	HPARD	Harris County	Other Providers	Total	Recommended HPARD Standard		Current HPARD Level of Service		Current Total Inventory Level of Service		HPARD NEEDS Over/ Under Service	Total Inventory NEEDS Over/ Under Standard
							Population		54,149			
Playgrounds	11	0	7	18	1	4,000	1	4,923	1	3,008	3	-4
Picnic Shelters	3	0	1	4	1	10,000	1	18,050	1	13,537	2	1
Trails	14.03	0	1.65	16	0.2	1,000	0.26	1,000	0.29	1,000	-3	-5
Outdoor Basketball Courts	9	0	4	13	1	12,000	1	6,017	1	4,165	-4	-8
Tennis	9	0	0	9	1	10,000	1	6,017	1	6,017	-4	-4
Volleyball	1	0	0	1	1	50,000	1	54,149	1	54,149	0	0
Dog Parks	0	0	0	0	1	100,000	0	54,149	0	54,149	1	1
Skate Parks	0	0	0	0	1	100,000	0	54,149	0	54,149	1	1
Community Centers	6	0	0	6	1	30,000	1	9,025	1	9,025	-4	-4
Swimming Pools	2	0	0	2	1	50,000	1	27,075	1	27,075	-1	-1
Outdoor Spraygrounds	2	0	0	2	1	100,000	1	27,075	1	27,075	-1	-1
Baseball (Lit & Unlit)	6	0	0	6	1 field	30,000	1	9,025	1	9,025	-4	-4
Softball (Lit & Unlit)	3	0	0	3	1 field	30,000	1	18,050	1	18,050	-1	-1
Soccer (Lit & Unlit)	2	0	2	4	1 field	10,000	0	54,149	0	54,149	3	1

TABLE 8. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 12
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- Jaycee Park: Renovations to the park have included a 1/3 mile walking trial, a new basketball court, renovated tennis courts (including the addition of a new backboard & 2 QuickStart Courts), a new playground, a water playground, reforestation, picnic tables, benches & general park beautification. The project was completed in June 2012.

- TIGER Project #2 11th Street to MKT Bike Trail - This project will connect the T.C. Jester trail at 11th to Stude Park and the Houston Heritage Trail. Houston Heritage Trail will connect to an existing network of on- street bike lanes and the MKT Trail will connect to the future North rail line Trail connections will also be made to the MKT Trails along the southwest of this Park Sector. This project is scheduled to be finished in 2015.

- Wright-Bembry (23rd St) Park renovations, slated for 2016, will include: new paving, site furnishing, site lighting, tennis a new playground with swings, a pavilion, planting, and irrigation

SUPPLEMENTAL MAPS:

Park Sector 12 Council Districts

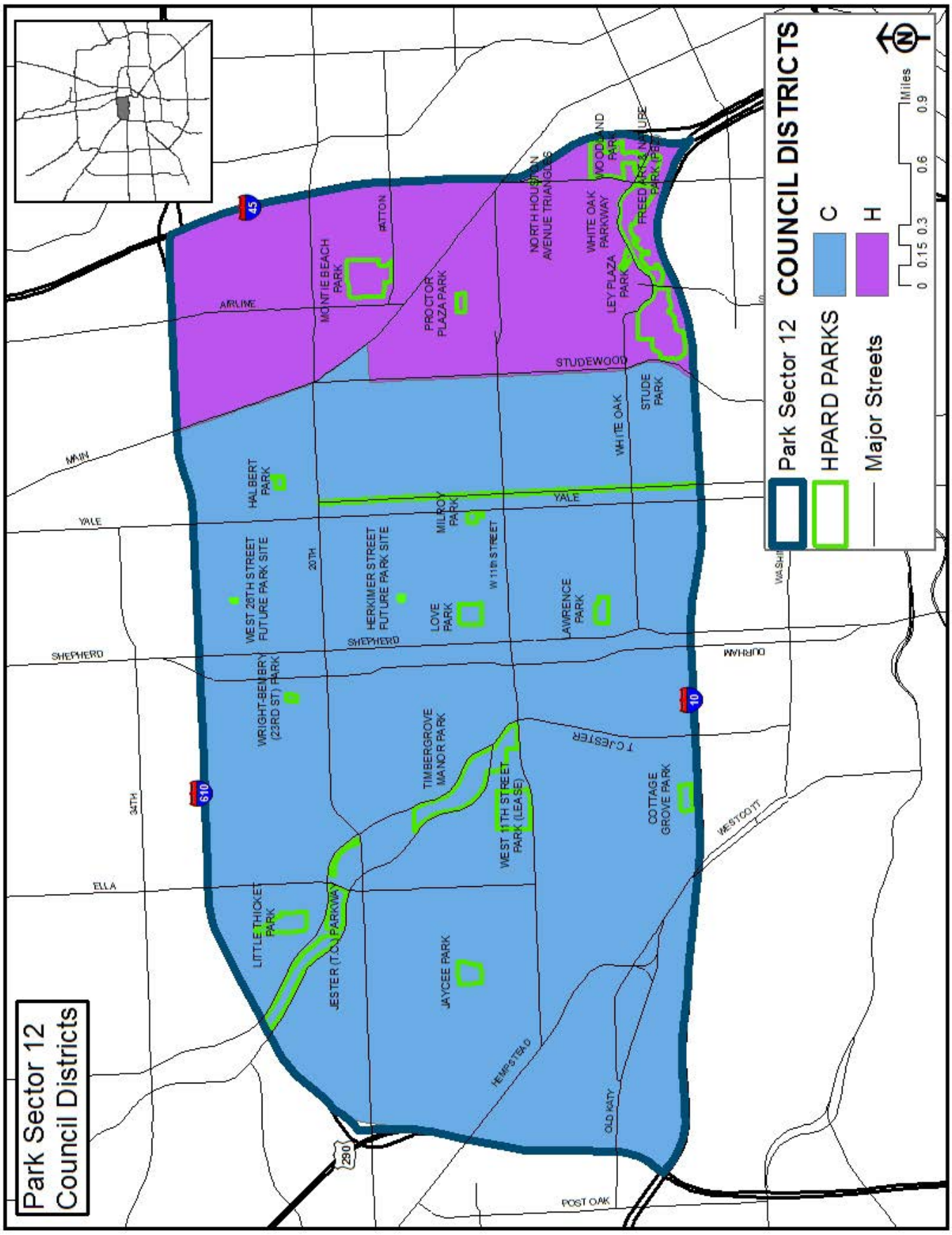


FIGURE 1: PARK SECTOR 12 COUNCIL DISTRICTS

Park Sector 12 Tax Increment Reinvestment Zone (TIRZs) and Management Districts

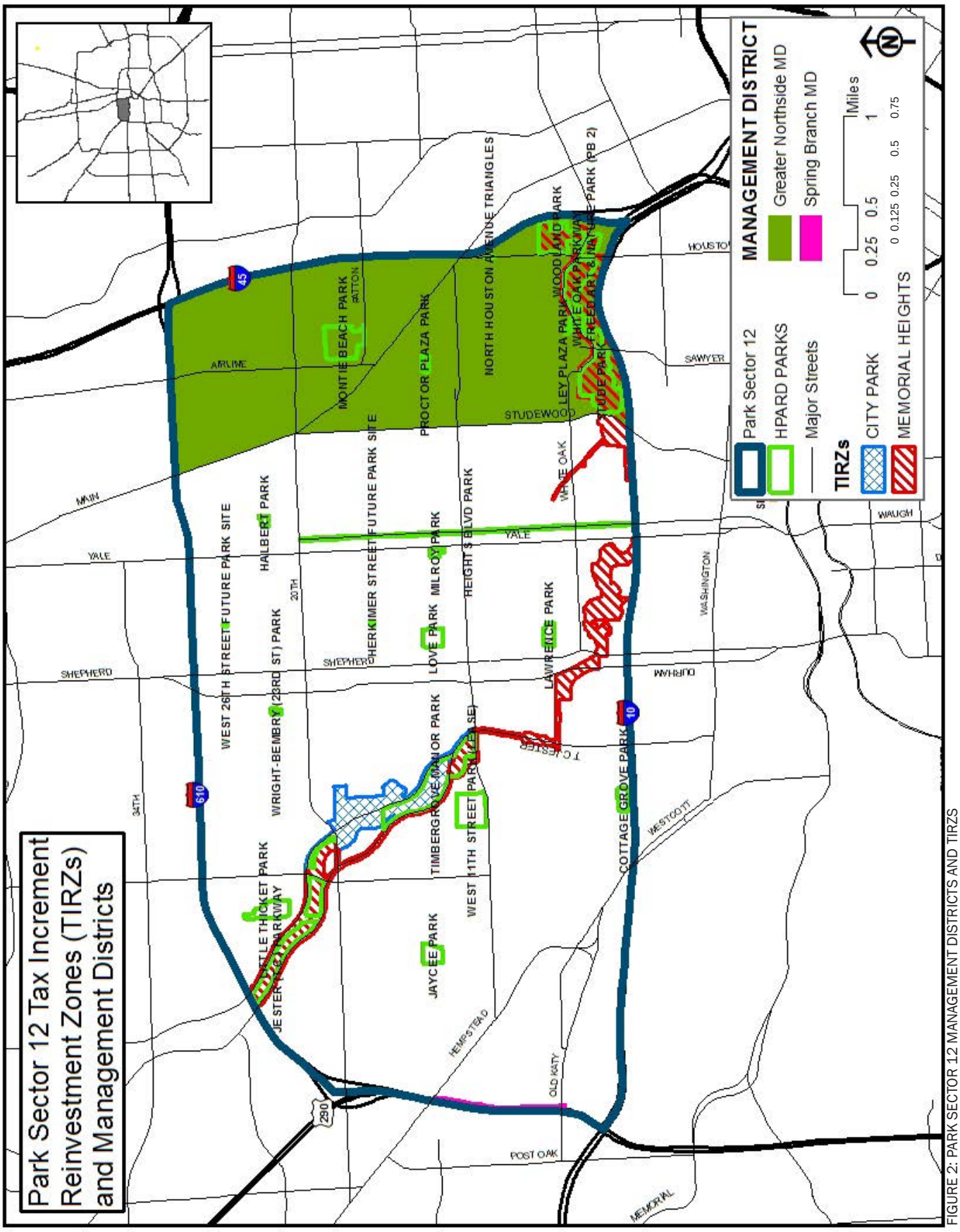


FIGURE 2: PARK SECTOR 12 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 12 Super neighborhoods

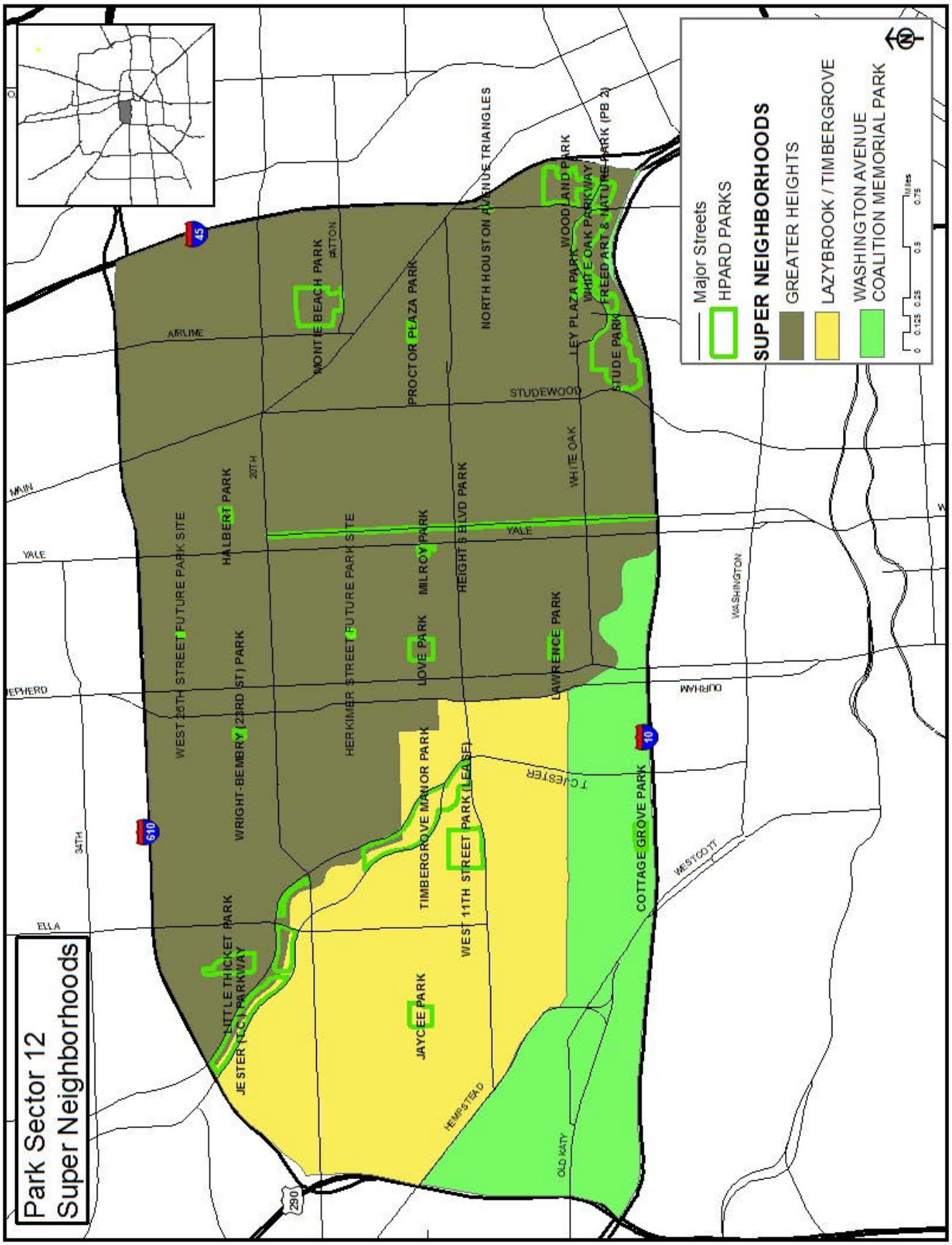


FIGURE 3: PARK SECTOR 12 SUPER NEIGHBORHOODS

Park Sector 12 Floodplain Areas

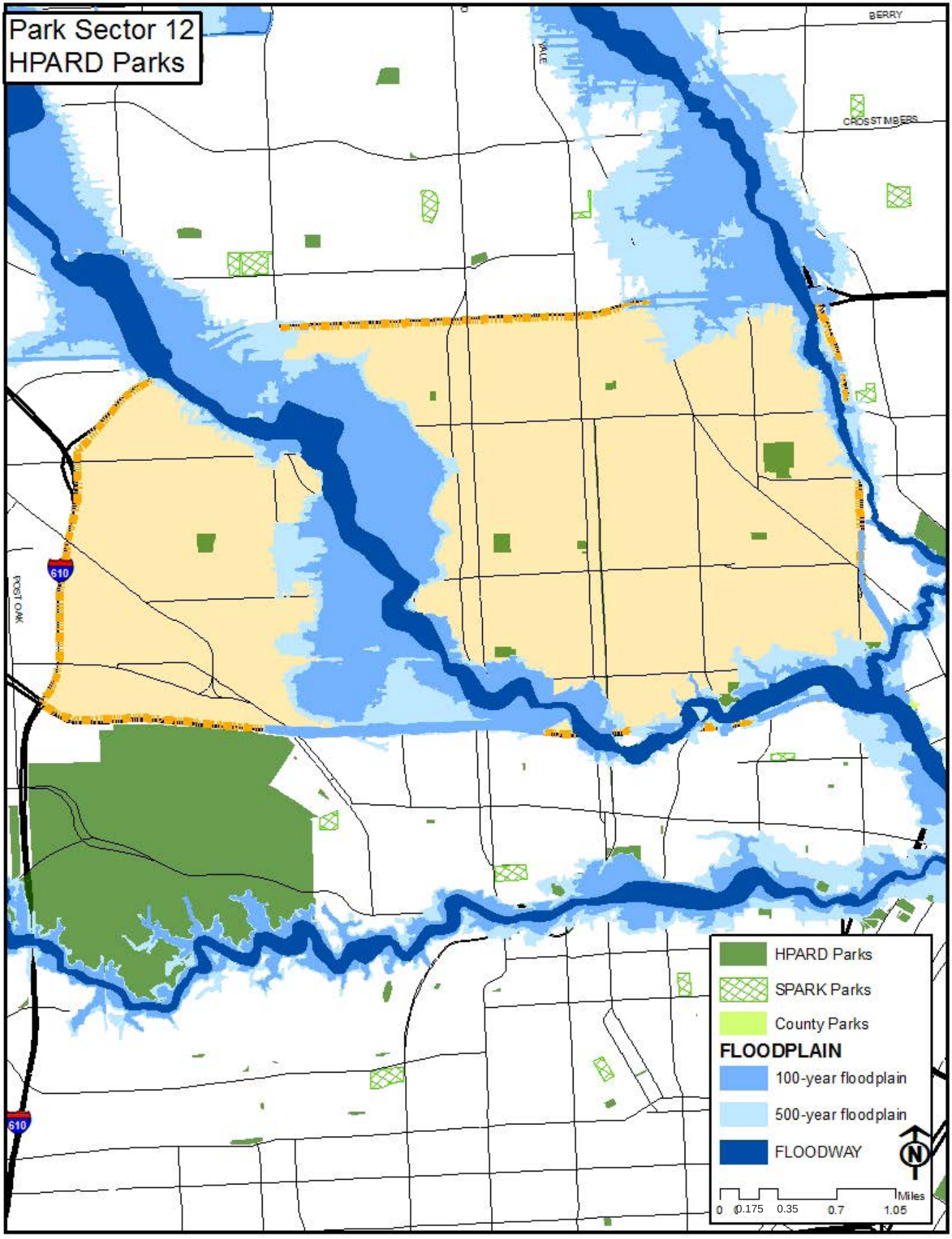


FIGURE 4: PARK SECTOR 12 FLOODPLAIN AREAS

PARK SECTOR 13

PARK SECTOR 13 SUMMARY

PARK SECTOR 13 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and data provided by Trust for Public Land ParkScore™ Project), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Develop Neighborhood connections to parks and trails
2. Revitalize existing parks
3. Acquire new parkland
4. Develop partnerships with the school system and other entities
5. Develop new park facilities
6. Preserve environmentally sensitive areas

RECOMMENDATIONS

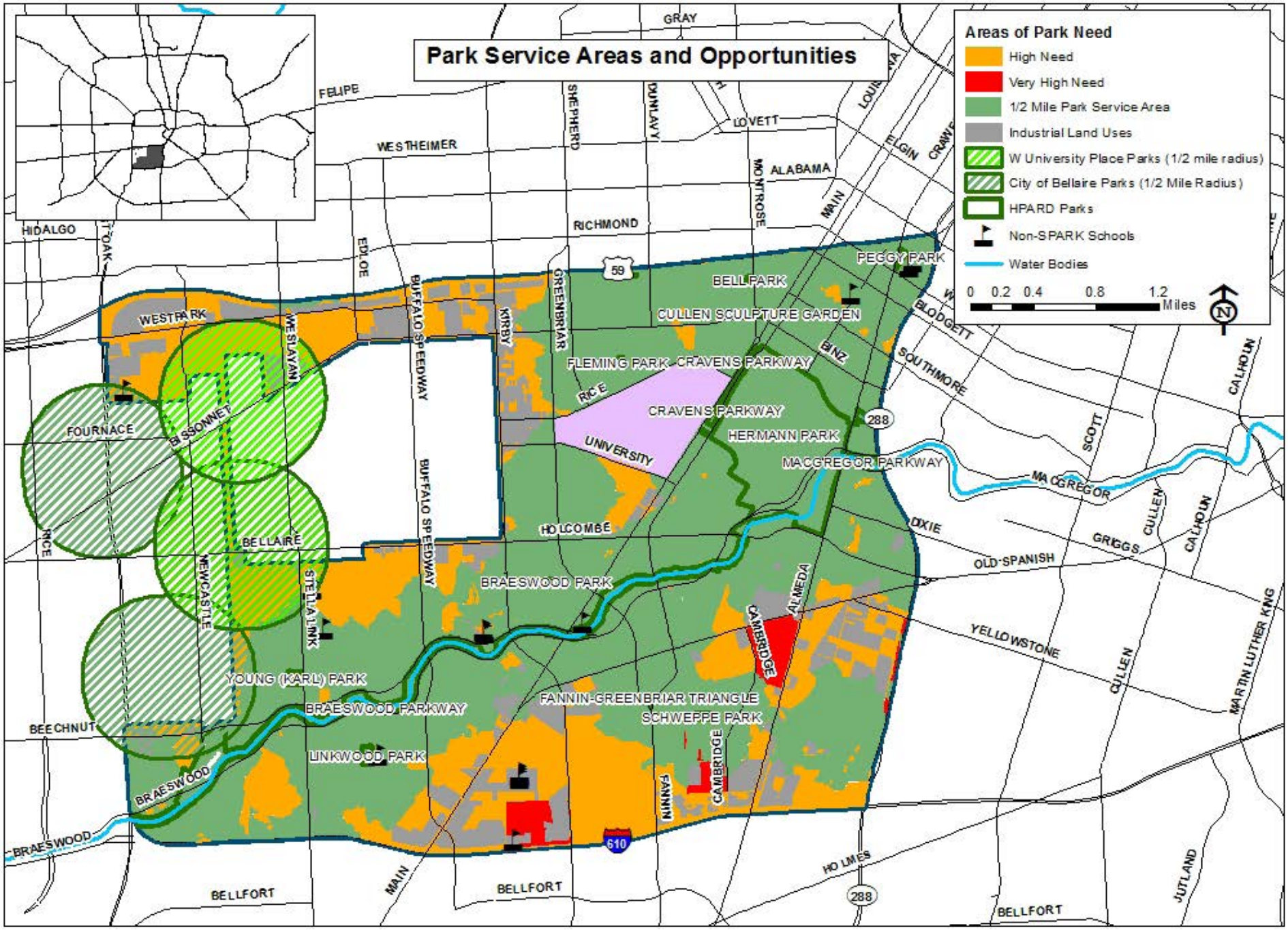
The parks in Park Sector 13 that have the highest need for redevelopment are Fleming Park and Linkwood Park.

Thirty (30) acres of parkland are needed in this Park Sector. While the majority of the Park Sector is served by parks within half a mile, there are some areas of need in the northwest and southern portions of the Park Sector. Growth for this Park Sector is expected to continue around the Medical Center, Rice University, and Herman Park areas. Schools not participating in the SPARK School Park Program (Non-SPARK schools) should be explored as potential future partnerships for park space. The Management Districts and residents in the area have expressed interest in safe off-street Neighborhood and on-street connections to the existing Brays Bayou trail. These organizations will be key partners for future planning, implementation and maintenance of projects in the area.

Brays Bayou is planned to span over 20 miles. A connection from the Brays Bayou trail to a north-south route should be explored; there is a north-south utility corridor east of Newcastle that may serve as a connector. This Park Sector is deficient in playgrounds, tennis courts, volleyball courts, skate parks, community centers, swimming pools, and baseball, softball, and soccer fields.

In the 2014 survey, the top three priorities of residents in Park Sector 13 when asked what recreational needs existed in their Neighborhood were: hike, bike and walk trails (59.7%), open space and natural areas (44.1%), and playground areas (37.5%). Other services and amenities that residents asked for in the write-in portion of the survey were: fitness programs, swim lessons, adult tennis programs, disc or frisbee golf, youth nature programs, outdoor environmental education and camping, volleyball, community gardens, arts and crafts programs, and dance or theater programs.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Online Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector


Park Service Areas and Opportunities
Areas of Park Need
High Need
Very High Need
1/2 Mile Park Service Area
Industrial Land Uses
W University Place Parks (1/2 mile radius)
City of Bellaire Parks (1/2 Mile Radius)
HPARD Parks
Non-SPARK Schools
Water Bodies
0 0.2 0.4 0.8 1.2 Miles
N
GRAY
FELIPE
WESTHEIMER
LOVETT
ALABAMA
RICHMOND
HIDALGO
EDLOE
SHEPHERD
DUNLAVY
MONTROSE
MAIN
ELGIN
LOUISIANA
59
WESTPARK
WESLAYAN
BUFFALO SPEEDWAY
KIRBY
GREENBRIAR
BELL PARK
PEGGY PARK
CULLEN SCULPTURE GARDEN
BLODGETT
BINZ
SOUTHMORE
CALHOUN
FLEMING PARK
CRAVENS PARKWAY
RICE
CRAVENS PARKWAY
HERMANN PARK
288
SCOTT
FOURNACE
BISSONNET
UNIVERSITY
MACGREGOR PARKWAY
MACGREGOR
CULLEN
CALHOUN
DIXIE
GRIGGS
OLD SPANISH
HOLCOMBE
BELLAIRE
NEWCASTLE
STELLA LINK
BRAESWOOD PARK
ALAMEDA
CAMBRIDGE
YELLOWSTONE
MARTIN LUTHER KING
CULLEN
YOUNG (KARL) PARK
BRAESWOOD PARKWAY
FANNIN-GREENBRIAR TRIANGLE
SCHWEPPE PARK
BEECHNUT
LINKWOOD PARK
BRAESWOOD
CAMBRIDGE
FANNIN
610
HOLMES
288
JUTLAND
BELLFORT
MAIN
BELLFORT
BELLFORT

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Vassar Spaceway	1720	Vassar	0.50	N/A
	Total HPARD Pocket Park Acreage		**0.50**	
Neighborhood Parks				
Bell Park	4800	Montrose	1.15	0.17
Braeswood Park	2345	Maroneal/Kelving	1.96	N/A
Cravens Parkway	5901	Main	11.49	0.50
Cullen Sculpture Garden* Operations & Maintenance Agreement	1000	Bissonnet	1.00	N/A
Fannin-Greenbriar Triangle	7898	Fannin/Greenbriar	1.00	N/A
Fleming Park	1901	Sunset Blvd	2.50	N/A
Linkwood Park	3699	Norris	6.00	0.12
MacGregor Way Park	5801	Almeda/MacGregor Way	1.07	N/A
Peggy Park	4101	Almeda	9.22	N/A
Schweppe Park	1801	El Paseo	2.79	N/A
Young (Karl) Park	7800	Stella Link	5.50	0.20
	Total HPARD Neighborhood Park Acreage		**43.68**	
Regional Parks				
Hermann Park	6001	Fannin	445.00	3.60
	Total HPARD Regional Park Acreage		**445.00**	
Corridor/Linear Parks and Greenways				
Braeswood Parkway		Holcombe/S Gessner	206.80	See County
MacGregor Parkway	2200	MacGregor	8.79	0.56
Columbia Tap				0.15
	Total HPARD Corridor Park Acreage		**215.60**	
	Total HPARD Park Acreage		**704.80**	
	Total HPARD Trail Length			**5.30**

EXISTING COMMUNITY CENTERS AND POOLS

Community Centers and Pool Facilities	Address	Zip Code	Agency Responsible
Linkwood Community Center	3699 Norris	77025	HPARD
Robinson (J., Jr.) Community Center	6001 Fannin	77030	HPARD
Street Olympics Complex Pool	2727 El Camino Street	77054	Harris County

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger).The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Approximately 27% of the area in this Park Sector is in need of parkland accessible within a ½ mile, as compared to the 55% of the population of the City of Houston who need park access. Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains 705 acres of parkland (Harris County, HPARD & other providers). Of the 8,841 acres in this Park Sector, 8% of this acreage is parkland.
- There are approximately 75,000 residents, the highest percentage of Asian-Americans (18.75%) and the second highest percentage of adults between the ages of 20-54 years old in the entire city.
- Growth for this Park Sector is expected to continue around the Medical Center, Rice University, and Herman Park areas.
- An additional 30 acres of land (Neighborhood parks) is needed in this sector. The map shows high need in southern portion of the Park Sector. This is based on the current population (2010 US Census) of the Park Sector and needs assessment done for Pocket, Neighborhood and Community parks (number of acres per 1,000 people).
- H-GAC population projections estimate that this area will add over 30,000 residents by 2040. To meet the parkland needs for the estimated 2040 population an additional 192 acres of parkland will be needed.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and amenity standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	19	10	16	6	8	2	1	1	3	2	1	3	3	8
2015 Existing	14	10	16*	6	5	0	1	0	2	1	1	1	1	1
2015 Needed	5	-	-	-	3	2	-	1	1	1	-	2	2	7
2040 Needed	7	-	6	3	3	-	-	-	1	-	-	1	1	3

*This number includes 0.5 miles of trails currently under construction between Fannin and Main Streets.

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.
2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.
3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.
4. Annual Operation & Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$24,000,000	30 Acres- $68,000,000	$11,000,000	$5,000,000
2040	$22,000,000	192 Acres- $435,000,000	$35,000,000	$2,000,000
TOTAL 2040	$46,000,000	222 Acres- $503,000,000	$46,000,000	$7,000,000

PARK SECTOR PROFILE 13

LOCATION AND POLITICAL BOUNDARIES

Park Sector 13 is located inside the 610 loop, south of 59, and west of SH 288.
Park Sector Size: 8,841.4 acres or 13.8 square miles
Population: 75,397 people, Density: 5,463 persons/sq. mi.
Political Boundaries within Park Sector 13:

- Council Districts: G, C, D and K.
- Super neighborhoods contained in this Park Sector: Greenway/ Upper Kirby Area, University Place, Braeswood Place, Meyerland Area, Willow Meadows/ Willowbend Area, South Main, Astrodome Area, Medical Center Area, Museum Park, Greater Third Ward, and Mac Gregor
- TIRZ: Upper Kirby, O.S.T./ Almeda, and Midtown
- Management Districts: Upper Kirby, West Montrose, Greater Southeast, Midtown, Uptown Houston, Lamar Terrace Public Improvement District, Harris County Public Improvement District # 2 and HCID 10-A

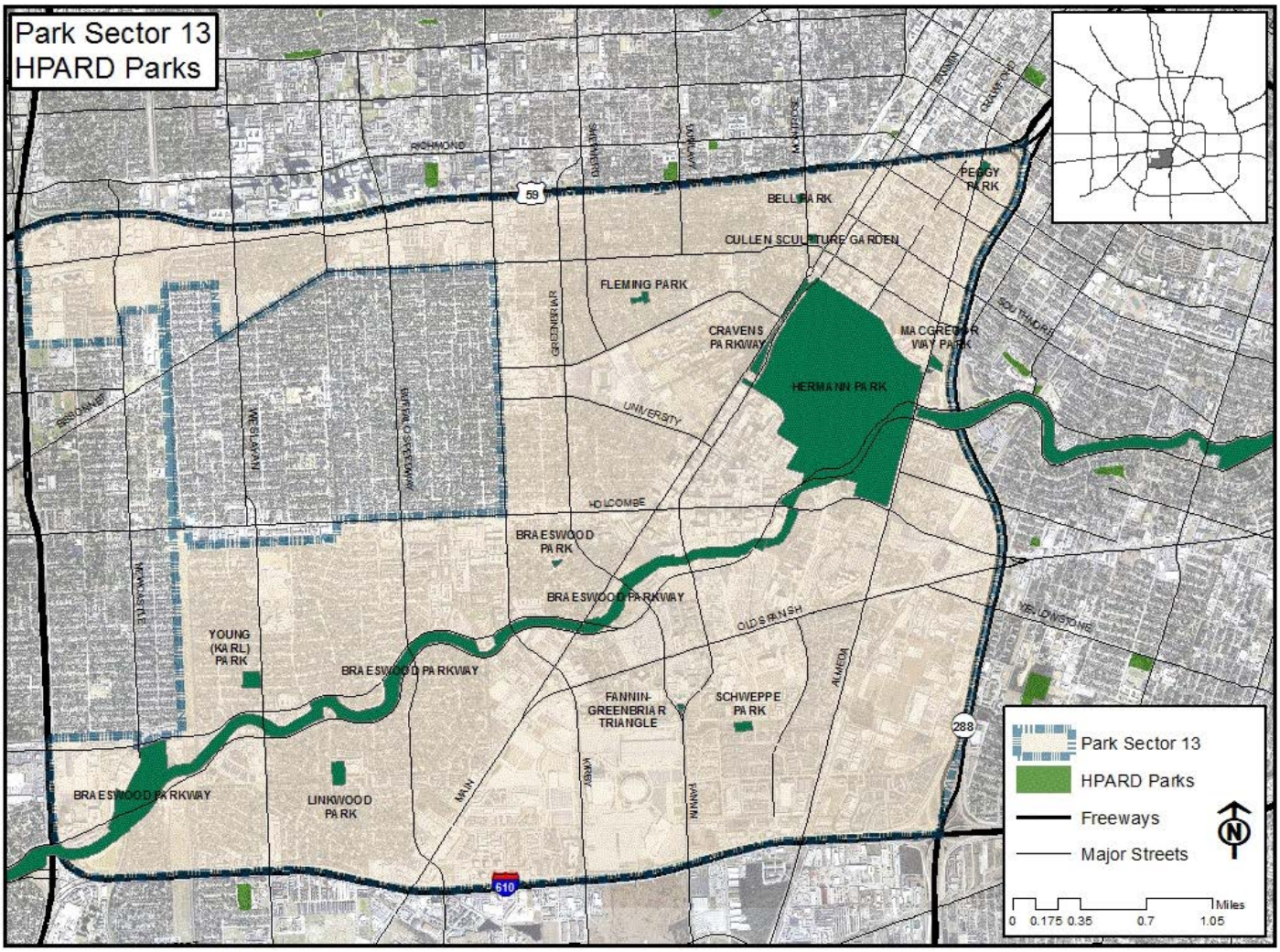


FIGURE 1. PARK SECTOR 13 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 13 Population	Park Sector 13 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**75,397**	-	2,119,831	-
Hispanic or Latino	8,949	11.9%	919,668	43.8%
Non-Hispanic White	38,460	51.0%	537,901	25.6%
Non-Hispanic Black	11,919	15.8%	485,956	23.1%
Non-Hispanic American-Indian	130	0.2%	126,098	6.1%
Non-Hispanic Asian	14,130	18.7%		
Non-Hispanic Hawaiian or Pacific Islander	45	0.1%		
Non-Hispanic Some Other Race	1,764	2.3%	26,828	1.3%

TABLE 1. PARK SECTOR 13 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains 3.56% of the population of Houston. The majority (51.0%) of residents are Non-Hispanic Whites, followed by Non-Hispanic Asians (18.7%), Non-Hispanic Blacks (15.8%), and Hispanic/Latinos (11.9%). The most populous census tracts in the Park Sector lie along the areas that abut US 610.

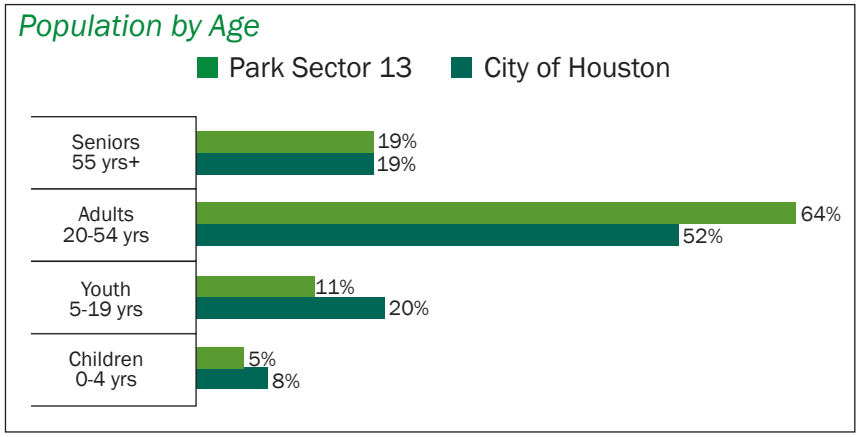


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 13 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that the percent (64%) of the population 20-54 years old is significantly higher than for the City of Houston (52%) . This Park Sector also has significantly less children 19 and under (16%) than that of the rest of the city (28%). These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 13 Population	PS 13 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	4,124	5%	5%	166,066	8%	8%
Youth	5-9 yrs	3,219	4%	11%	148,843	7%	21%
	10-14 yrs	2,401	3%		135,622	7%	
	15-19 yrs	2,849	4%		140,673	7%	
Adults	20-34 yrs	30,214	39%	64%	539,348	26%	52%
	35-44 yrs	10,606	14%		286,117	14%	
	45-54 yrs	8,693	11%		265,060	13%	
Senior	55-64 yrs	7,596	10%	19%	204,852	10%	19%
	65 yrs +	7,319	10%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 13 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 44,112 housing units in this Park Sector. The percent of vacant housing in Park Sector 13 (14.3%) is higher as compared to the vacancy rates for the entire city (12.3%). Home ownership for this Park Sector is 27.6%, much lower than that of the City of Houston (39.7%); conversely, the percent of renters (57.7%) is almost ten percent higher than that of the rest of the city (47.9%).

Income

The median household income for this Park Sector ($50,650) is slightly higher than that of the City of Houston ($48,322). However, 19,098 households, or 49%, in this area have an income below the Houston median household income.

Educational Attainment

Within Park Sector 13 the percent (19%) of individuals 25+ years of age with a Bachelor's degree or higher is significantly lower than the relative percent for the entire City of Houston (28%). The percentage of those with no degree or no more than a high school diploma (60%) is significantly lower than the percentage (48%) of those within the same population for the City of Houston.

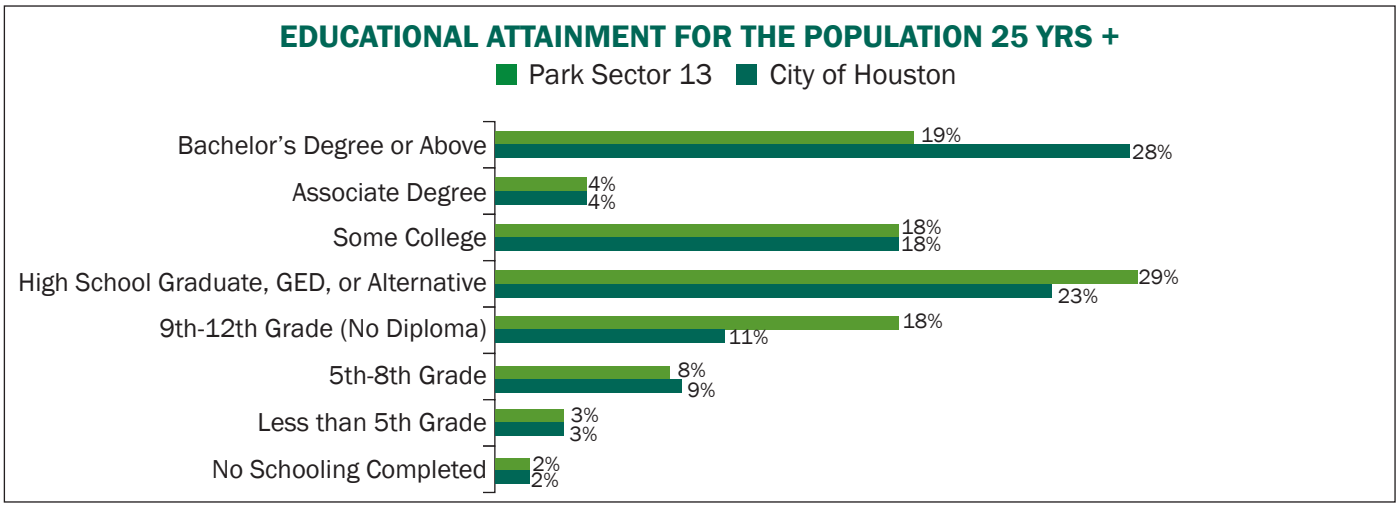


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 16.8% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that 5.2% of the adult population received a diagnosis of diabetes by a professional, which is below the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that over 40% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is higher than that of the entire city (32%). The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%.

Finally, the survey shows that 14.9% of the population does not engage in moderate physical activity at all, which is much lower than the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

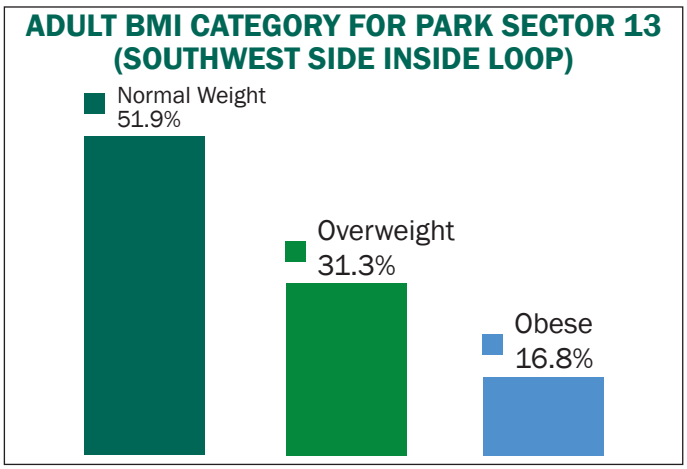


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	14.90
1	4.40
2	17.10
3	15.10
4	8.40
5	17.90
6	8.30
7	13.90

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	11,249	51.0%	1,872	29.3%
Multi-Family	8,235	37.3%	756	11.8%
Commercial	761	3.4%	574	9.0%
Office	229	1.0%	486	7.6%
Industrial	166	0.8%	382	6.0%
Public & Institutional	98	0.4%	1,052	16.5%
Transportation	37	0.2%	189	3.0%
Parks & Open Space	46	0.2%	53	0.8%
Undeveloped	1,160	5.3%	1,016	15.9%
Agriculture Production	86	0.4%	8	0.1%
TOTAL	22,067		6,389	

TABLE 4. LAND USE BY DESCRIPTION (2012 HCAD)

The table above shows the breakdown of land use according to 2012 HCAD information. Of the 8,329 multi-family parcels, 95% (or 7,877 parcels) are flagged as condos under HCAD. The median value of properties in this Park Sector is much higher than most other parts of the city and land acquisition in Sector 13 would likely be costly.

Sector 13 contains a varied mix of land uses. Single-family is the dominant land use in the Park Sector, being the land use of 51% of all parcels and 29.3% of all acreage. Public and institutional uses account for 16.4% of all acreage which is likely due to the presence of Rice University and the Medical Center. Undeveloped land also constitutes 16.4% of all acreage in Sector 13 and 5.5% of all parcels. Considering that this Park Sector is highly developed, these percentages would seem to be inaccurate. There are also a large number of multi-family parcels in this Park Sector; 37.5% of all parcels and 11.7% of all acreage are multi-family.

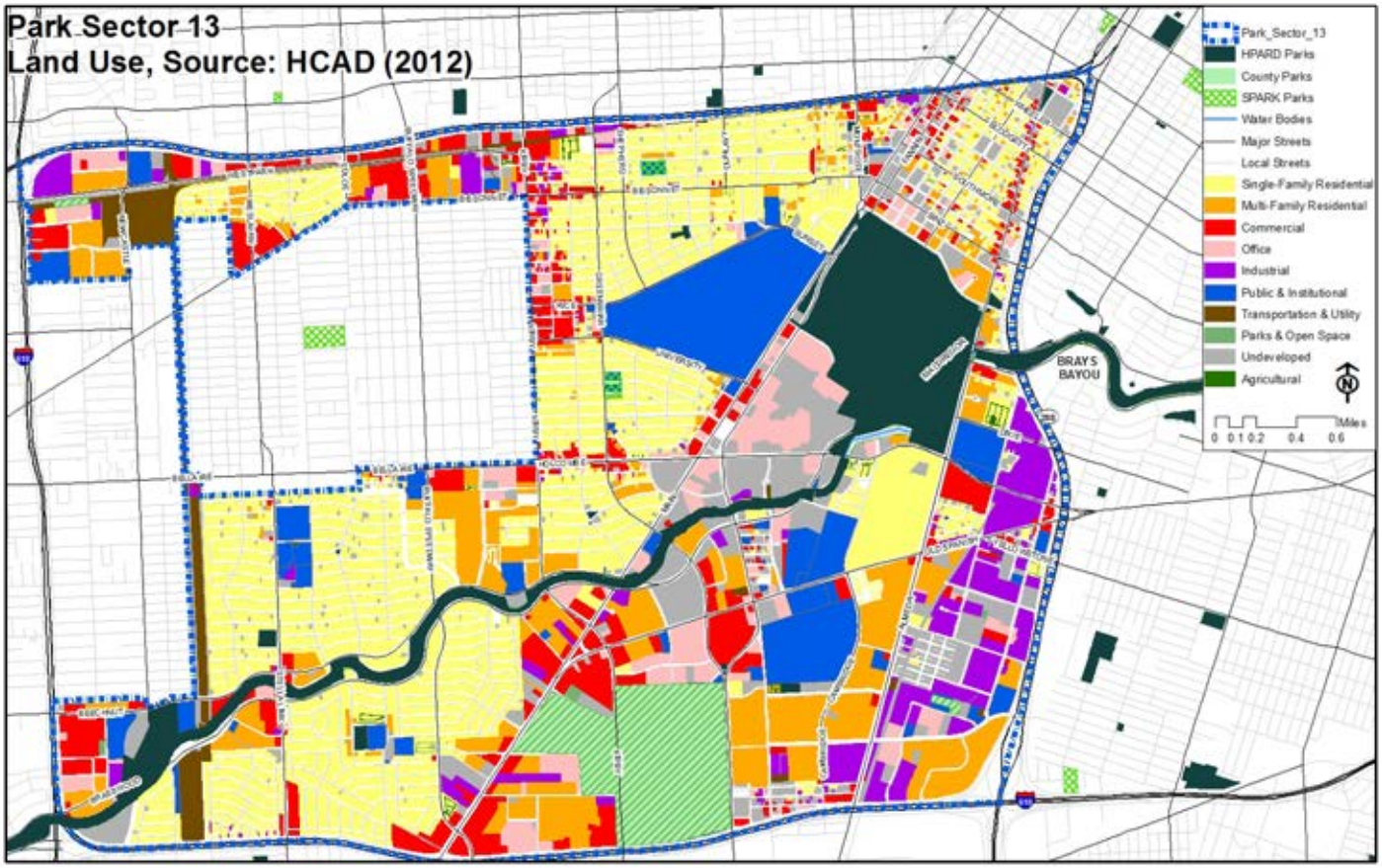


FIGURE 5. PARK SECTOR 13 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

HPARD PARKS AND TRAILS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Vassar Spaceway	1720	Vassar	0.50	N/A
Total HPARD Pocket Park Acreage			**0.50**	
Neighborhood Parks				
Bell Park	4800	Montrose	1.15	0.17
Braeswood Park	2345	Maroneal/Kelving	1.96	N/A
Cravens Parkway	5901	Main	11.49	0.50
Cullen Sculpture Garden* Operations & Maintenance Agreement	1000	Bissonnet	1.00	N/A
Fannin-Greenbriar Triangle	7898	Fannin/Greenbriar	1.00	N/A
Fleming Park	1901	Sunset Blvd	2.50	N/A
Linkwood Park	3699	Norris	6.00	0.12
MacGregor Way Park	5801	Almeda/MacGregor Way	1.07	N/A
Peggy Park	4101	Almeda	9.22	N/A
Schweppe Park	1801	El Paseo	2.79	N/A
Young (Karl) Park	7800	Stella Link	5.50	0.20
Total HPARD Neighborhood Park Acreage			**43.68**	
Regional Parks				
Hermann Park	6001	Fannin	445.00	3.6
Total HPARD Regional Park Acreage			**445.00**	
Corridor/Linear Parks and Greenways				
Braeswood Parkway		Holcombe/S Gessner	206.8	See County
MacGregor Parkway	2200	MacGregor	8.79	0.56
Columbia Tap				0.15
Total HPARD Linear Park Acreage			**215.6**	
Total HPARD Park Acreage			**704.8**	
Total HPARD Trail Length				**5.3**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 13

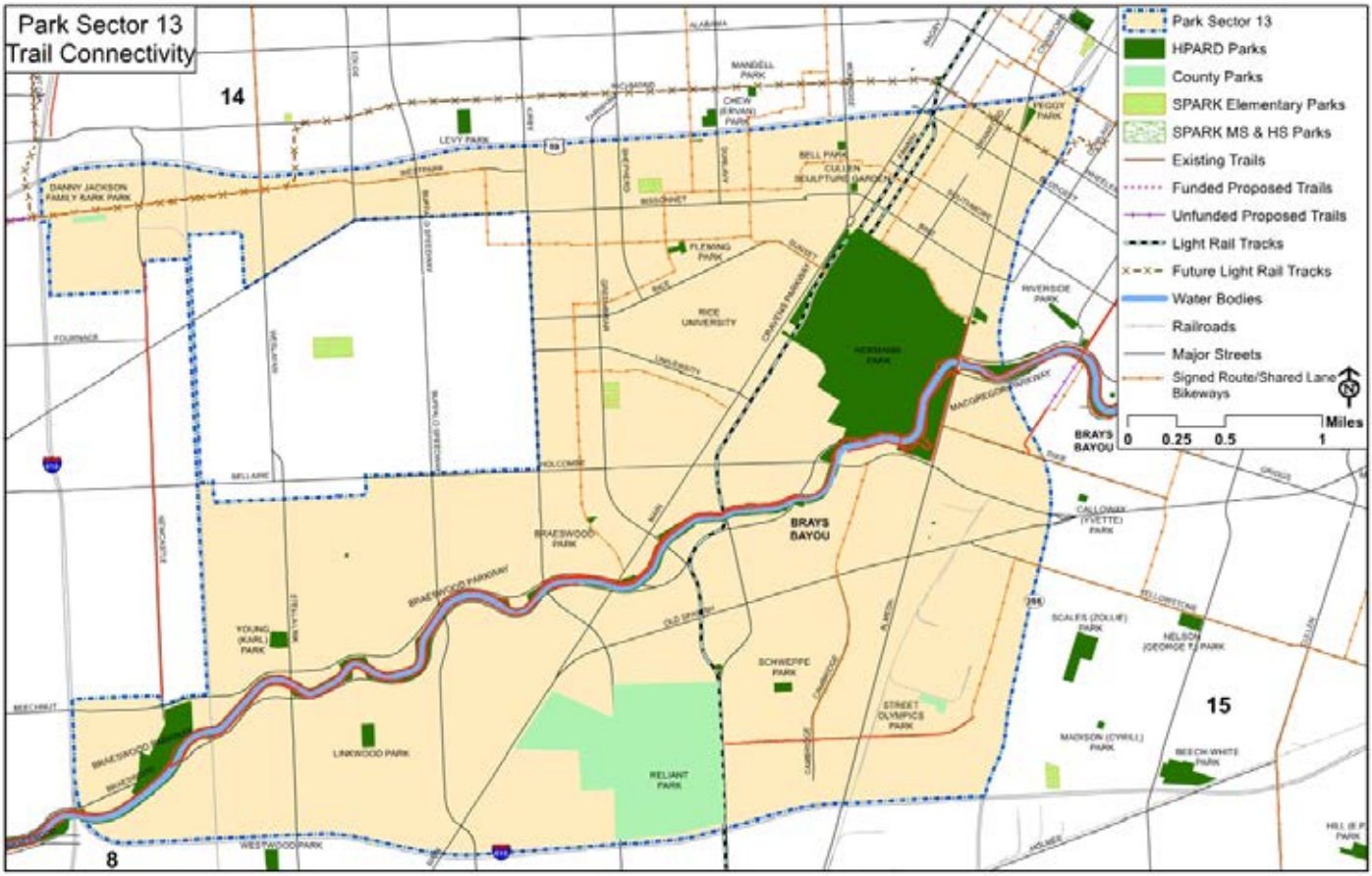


FIGURE 6. PARK SECTOR 13 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

In addition to the trails listed in Tables 5 and 6, there is a north-south 2.25-mile path along Newcastle Street mostly inside the City of Bellaire (0.3 miles are in the City of Houston limits). This Bellaire/Houston path is 0.5 miles from the Brays Bayou Trail at the Beechnut/North Braeswood Blvd. intersection. This seems like an ideal opportunity to make a connection to Brays Bayou Trail. Holly Hall shared use bike path (0.8 miles) along Holly Hall Street is also in the Park Sector. It originates along the Main Rail line and joins to Cambridge Street via on-street bike lane and connects to Bray Bayou Trail system. The Holly Hall shared use path ends at Ardmore, which has a signed bike route. Accounting for these trails, along with the Harris County and HPARD trails, this Park Sector has a total of 14.8 miles of trails.

County Parks and Trails

Reliant Park is not actually a park and is in substandard condition and is physically deteriorating. The sports arena the Astrodome was located here before being closed in 2000. Harris County has not made a decision as whether to renovate the Astrodome or demolish it.

County Park				
Facility Name	**Address**	**Street**	**Total Acres**	**Trail Length**
Brays Bayou Hike & Bike Trail	9601	Braes Bayou Drive	250.00	8.94
Danny Jackson Family Bark Park	4828 ½	Loop Central Drive	2.76	0.30
Reliant Park	1	Reliant Park	263.00	N/A
Street Olympics Complex		El Camino Street	7.25	N/A
		Total HC Park Acreage	**523.01**	
		Total HC Trail Length		**9.24**

TABLE 6. TRAILS INTERNAL TO COUNTY PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 13

SPARK Parks

There are 2 Elementary Schools participating in the SPARK Program providing access to park space and a variety of amenities to the public. For the purpose of this Master Plan, these playgrounds will be assumed to serve the 5-12 year old population.

SPARK Parks				
Facility Name	**Address**	**Street**	**Total Acres***	**Amenities**
Poe Elementary School	5100	Hazard St	5.34	Playground, Outdoor Basketball Pavilion, Multi-Purpose Field
Roberts Elementary School	6000	Greenbriar	5.45	2 Playgrounds, 1 Soccer Field (Unlit)
Total Acres*			**10.79**	

TABLE 7. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 13 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

Open and Green Space

To determine the level of service, the 2007 Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by The Trust for Public Land ParkScore™ Project.

The table below shows the level of service (LOS) based on the 2007 HPARD Master Plan recommended standards of a number of acres per 1,000 people using the 2010 Census Population. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 0.005 acres/1,000 people for a Pocket park, this Park Sector needs 7.04 acres of parkland. To meet the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs) of 1.0 acres/1,000 people for a Neighborhood park, Park Sector 13 needs 22.93 acres of parkland. For the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 1.5 acres/1,000 people for a community park, Park Sector 13 meets the standard. A total of 29.97 acres are needed in this Park Sector. In this case, the acreage considered here is for Braeswood Parkway which fits the size of a Community Park, however, does not have the amenities of a typical community park but instead those of a Corridor or Linear park. Corridor and linear parks are being considered as Regional Parks in the analysis in Table 7. With the BG2020 efforts to build out bayou greenways throughout the city, the greenway and trail system should be considered more as linear, Regional Parks that will eventually traverse the majority of the city and serve various areas and population. The acreage for Regional Park is accounted for in the city-wide analysis. The analysis for level of service and needs is shown below.

Park Type	HPARD Park Number	HC Park Number	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
								Population		75,397	
Pocket Park (<1 acre)	1	0	0.50	0	0	0.50	0.1 ac/1,000 people	0.01	0.01	7.04	7.04
Neighborhood Park (1-15 acres)	11	0	52.5	0	0	52.5	1 ac/1,000 people	0.7	0.7	22.93	22.93
Community Park (16-150 acres)	0	0	206.79	0	0	206.79	1.5 ac/1,000 people	2.74	2.74	-93.69	-93.69
Regional Parks (151+ acres)	1	0	445.00	0	0	445.00	8.0 ac/1,000 people				
TOTAL	15	0	704.76	0	0	704.76	19 acres/1,000			29.97	29.97

TABLE 8. HPARD LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Another way to measure the level of service provided by parks is by looking at a "walkable" distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ Project study mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map in Figure 6 was produced using data provided by Trust for Public Land (TPL) ParkScore™Project. The areas in green on the map below represent the area within ½ mile of existing parks not blocked by freeways or major roads; the hatched area represents the service area of a publicly accessible (owned, developed and maintained by the City of Bellaire and the City of West University Place) parks that were not account for when the Trust for Public Land (TPL) ParkScore™ data was produced. These parks only provide some coverage for the northwestern fringes of the Park Sector. Roughly 27% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, which is lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector. The hatched areas are not accounted in the percentage for the areas served at this time, so the service area percentage is underestimated.

This Park Sector does not have any Community Parks. Acquiring additional parkland along Braeswood Parkway and providing facilities similar to those available in a community park could be a solution. In general increased safe bike and pedestrian connections to Braeswood Parkway will improve accessibility to residents in the area. This Park Sector has also added high-rise apartment developments at a fast pace in the last few years and the trend seems to be continuing. Encouraging private parks to be dedicated by developers to meet the open space ordinance in this Park Sector may be a strategy to providing park space in the areas where density is increasing.

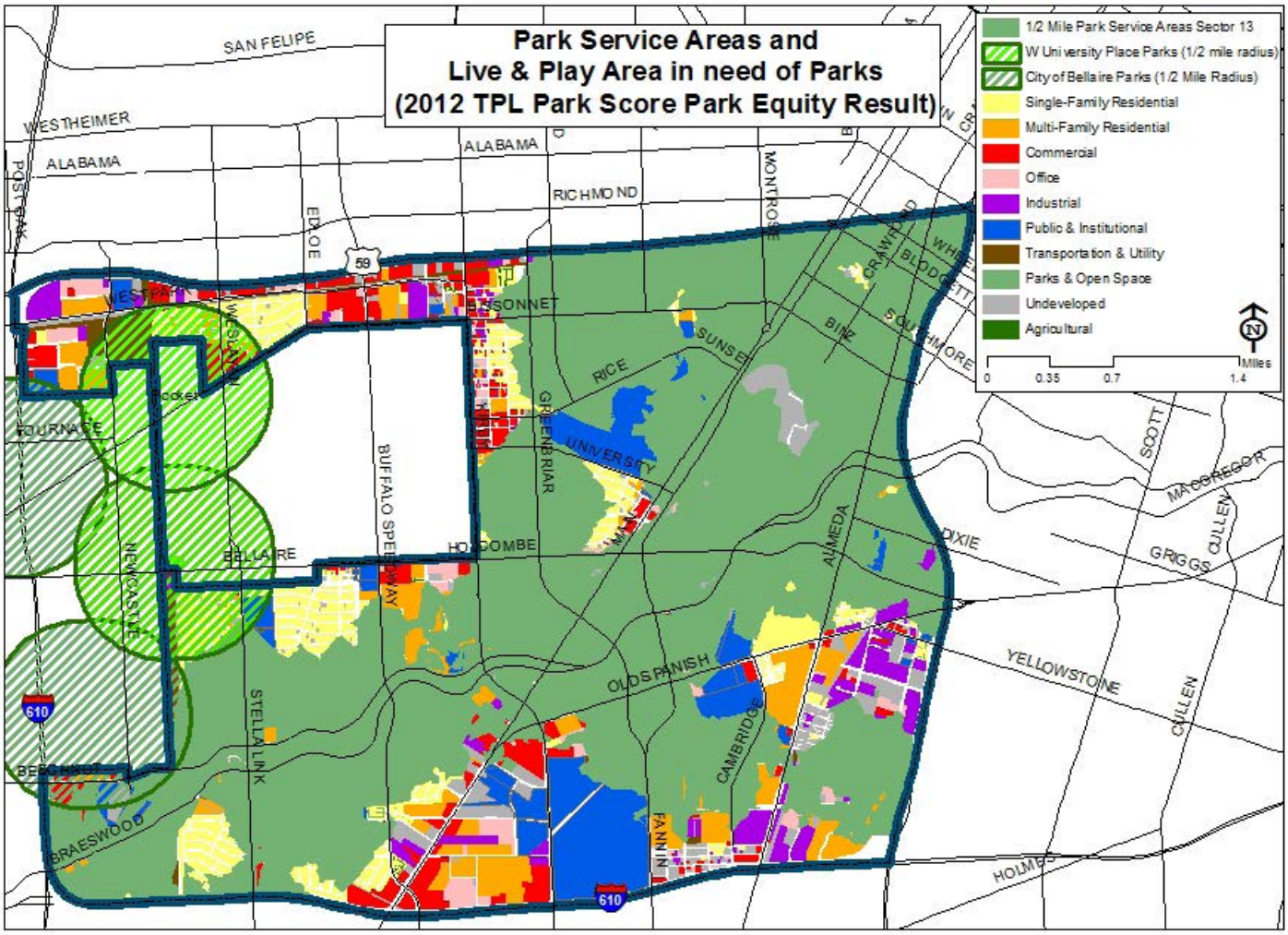


FIGURE 7. PARK SECTOR 13 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

AMENITIES AND SERVICES

This map shows some of the community services available in this Park Sector: community centers, YMCAs, libraries, and transit centers. There are two HPARD community centers located in this Park Sector: Linkwood and Robinson (J. Jr.) Community Centers. The Weekley Family YMCA is located in this Park Sector. Directly next door to the YMCA is the Sheltering Arms Senior Services, a subsidiary of neighborhoods Centers Inc. and a non-profit affiliate of United Way. This organization offers free services, to those who meet the eligibility requirements, such as case management, utility assistance, home weatherization assistance, and a telephone help line. The libraries in this Park Sector provide computer access, community meeting space, and educational programs.

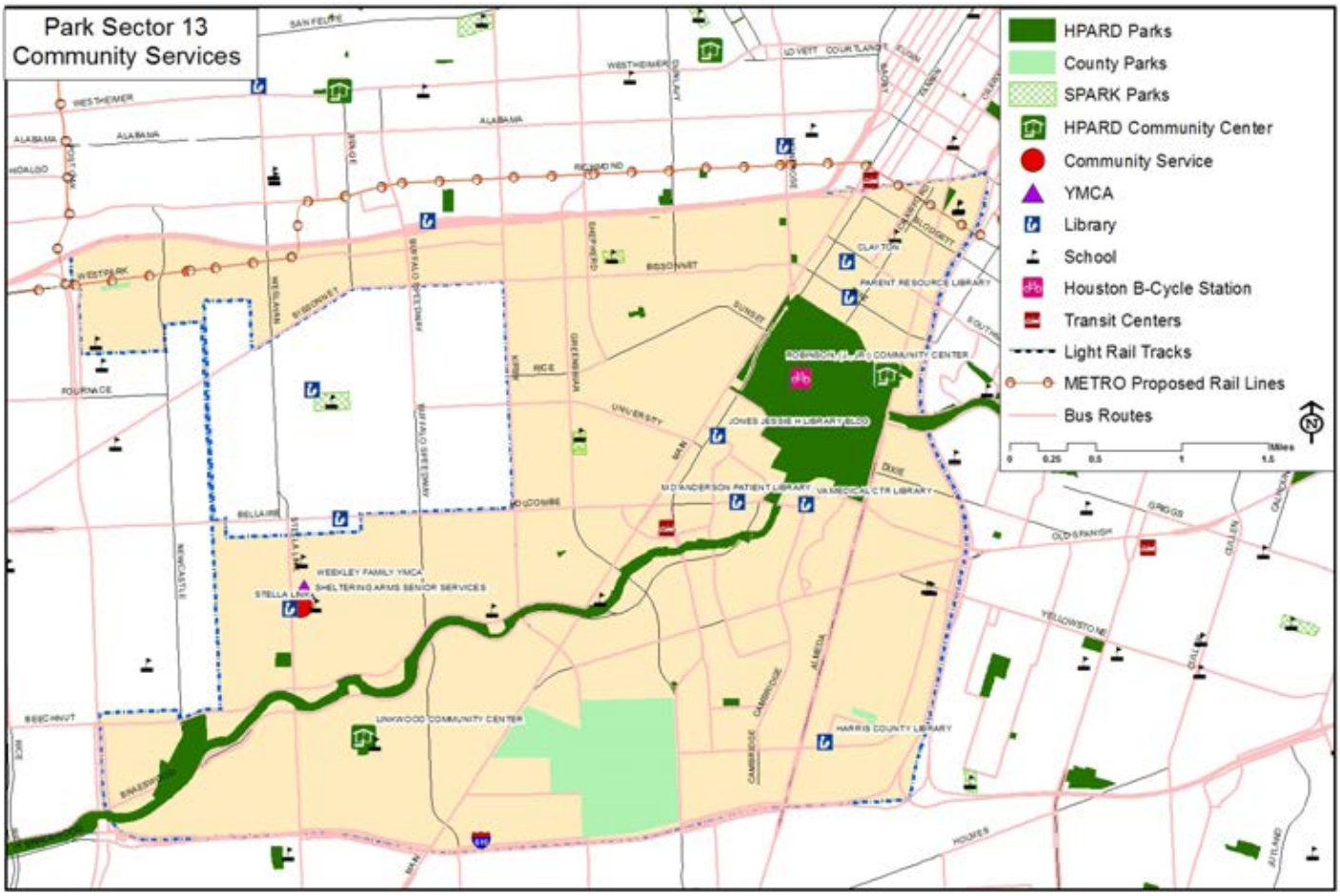


FIGURE 8. PARK SECTOR 13 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities - Level of Service

The 2007 HPARD standards by amenity have been applied to the amenities in Park Sector 13. The standard for each amenity is then compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these recommended HPARD standards, Harris County and other providers are meeting the needs of the residents for picnic shelters, outdoor basketball courts, dog parks and outdoor spraygrounds. This Park Sector is deficient in playgrounds (5), tennis courts (3), Volleyball Courts (2), skate parks (1), community centers (1), swimming pools (1), baseball fields (2), softball fields (2), and soccer fields (7).

	HPARD	Harris County	Other Providers	Total	Recommended HPARD Standard		Current HPARD Level of Service		Current Total Inventory Level of Service		HPARD NEEDS Over/ Under Service	Total Inventory NEEDS Over/ Under Standard
						Population		75,397				
Playgrounds	12	0	2	14	1	4,000	1	6,283	1	5,386	7	5
Picnic Shelters	10	0	0	10	1	10,000	1	7,540	1	7,540	-2	-2
Trails	5.3	9.24	0.8	15.3	0.2	1,000	0.07	1,000	0.2	1,000	10	0
Outdoor Basketball Courts	5	0	1	6	1	12,000	1	15,079	1	12,566	1	0
Tennis	5	0	0	5	1	10,000	1	15,079	1	15,079	3	3
Volleyball	0	0	0	0	1	50,000	0	75,397	0	75,397	2	2
Dog Parks	0	1	0	1	1	100,000	1	75,397	1	75,397	1	0
Skate Parks	0	0	0	0	1	100,000	0	75,397	0	75,397	1	1
Community Centers	2	0	0	2	1	30,000	1	37,699	1	37,699	1	1
Swimming Pools	0	1	0	1	1	50,000	0	75,397	1	75,397	2	1
Outdoor Spraygrounds	1	0	0	1	1	100,000	1	75,397	1	75,397	0	0
Baseball (Lit & Unlit)	1	0	0	1	1 field	30,000	1	75,397	1	75,397	2	2
Softball (Lit & Unlit)	1	0	0	1	1 field	30,000	1	75,397	1	75,397	2	2
Soccer (Lit & Unlit)	0	0	1	1	1 field	10,000	1	75,397	1	75,397	8	7

TABLE 9. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 13
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- The Fannin/Greenbriar esplanade is being renovated. Landscaping is being carried out on the medians between the Mecom Fountain and the Sam Houston Monument and the median between Fannin and Main. The renovations involve pavement, lighting, landscaping and irrigation. This project is expected to be completed in 2015.
- Hermann Park golf course received 871 new trees that were planted in March 2013. The Mary Criner Memorial bench and new trees were also installed with a granite trail to access the new seating by the lake.
- The Miller Outdoor Theater was irrigated and resodded in 2013.
- Schweppe Park will be renovated and is in design phase. The work is expected to be finished in 2015-2016.

SUPPLEMENTAL MAPS:

Park Sector 13 Council Districts

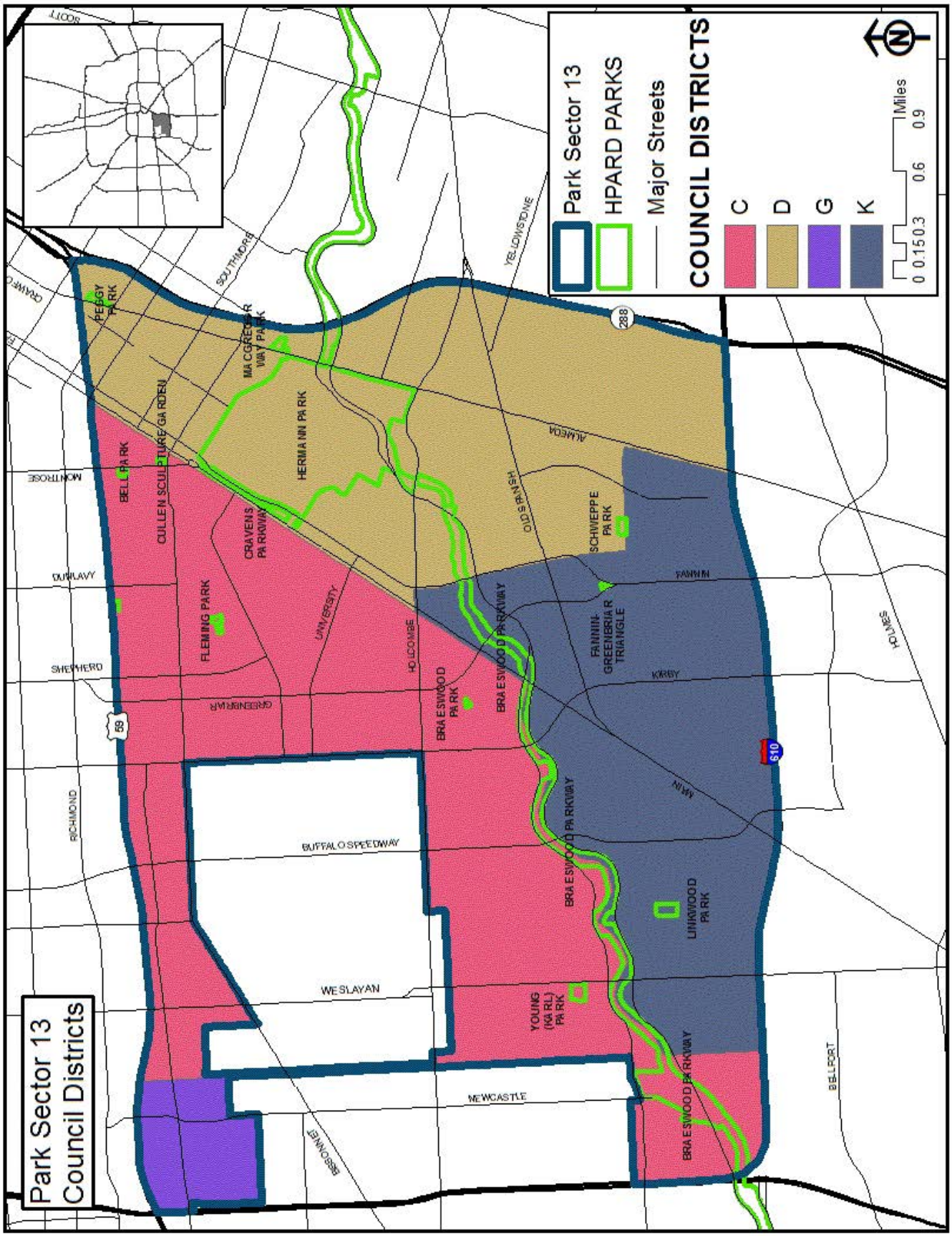


FIGURE 1: PARK SECTOR 13 COUNCIL DISTRICTS

Park Sector 13 Tax Increment Reinvestment Zone (TIRZs) and Management Districts

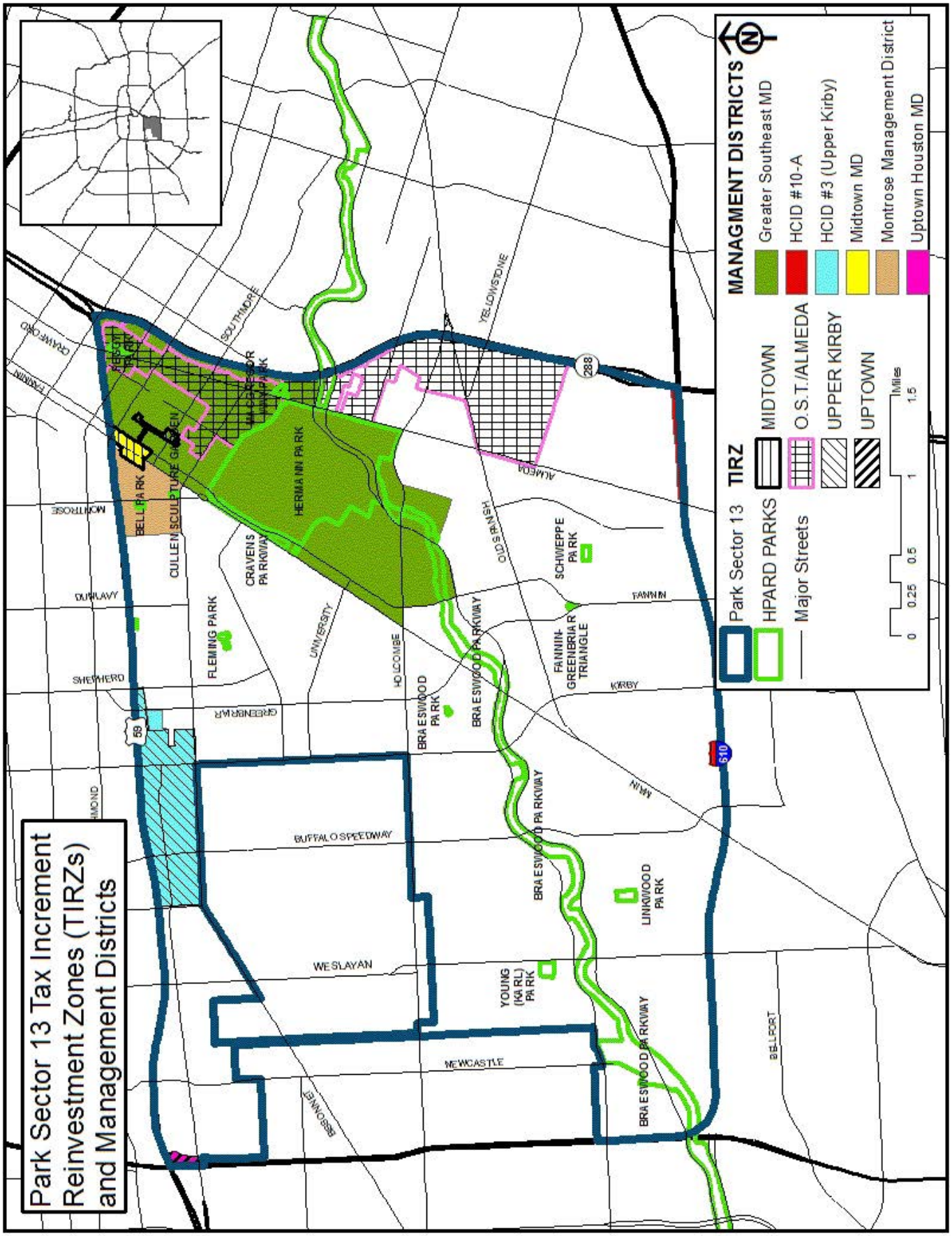


FIGURE 2: PARK SECTOR 13 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 13 Super neighborhoods

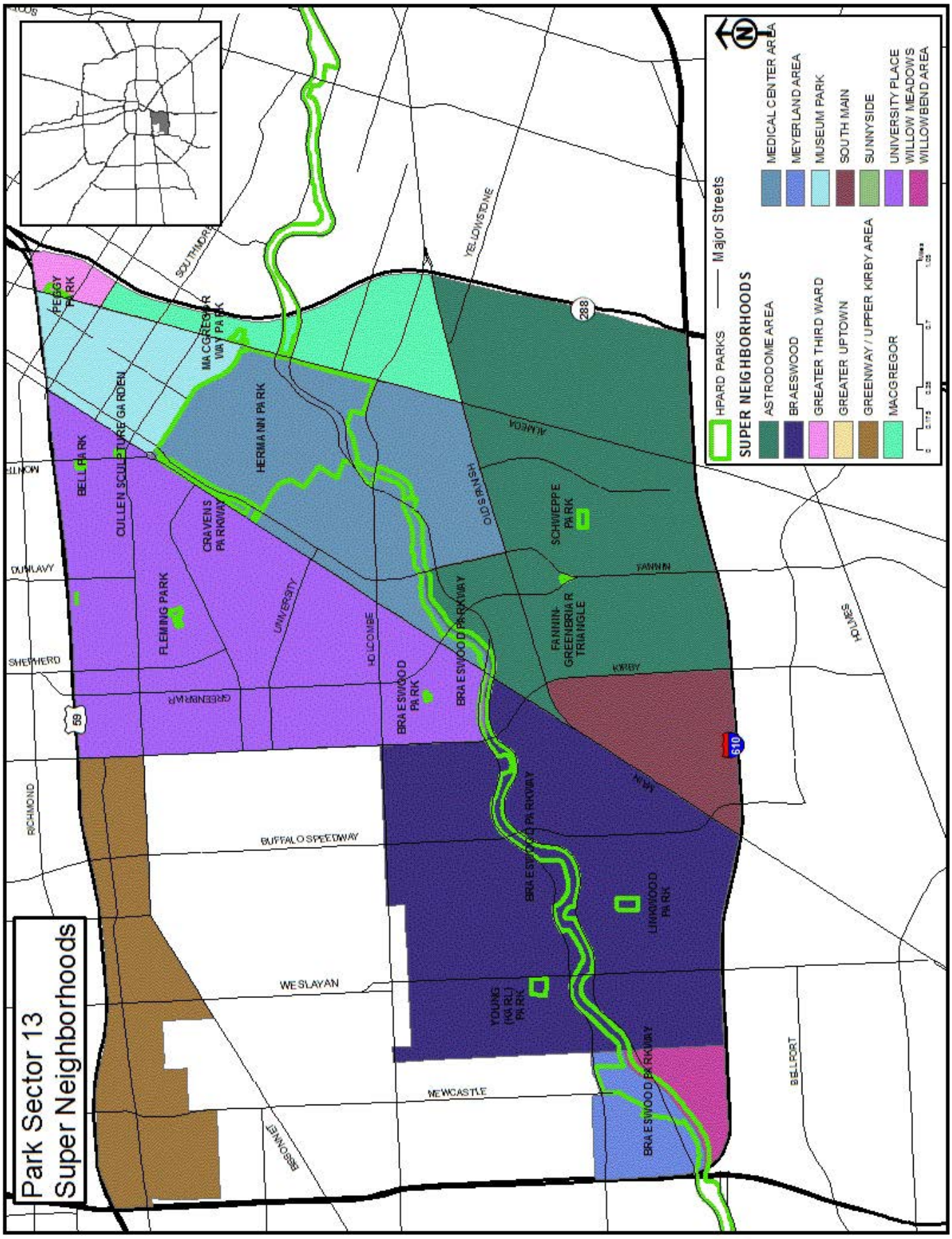


FIGURE 3: PARK SECTOR 13 SUPER NEIGHBORHOODS

Park Sector 13 Floodplain Areas

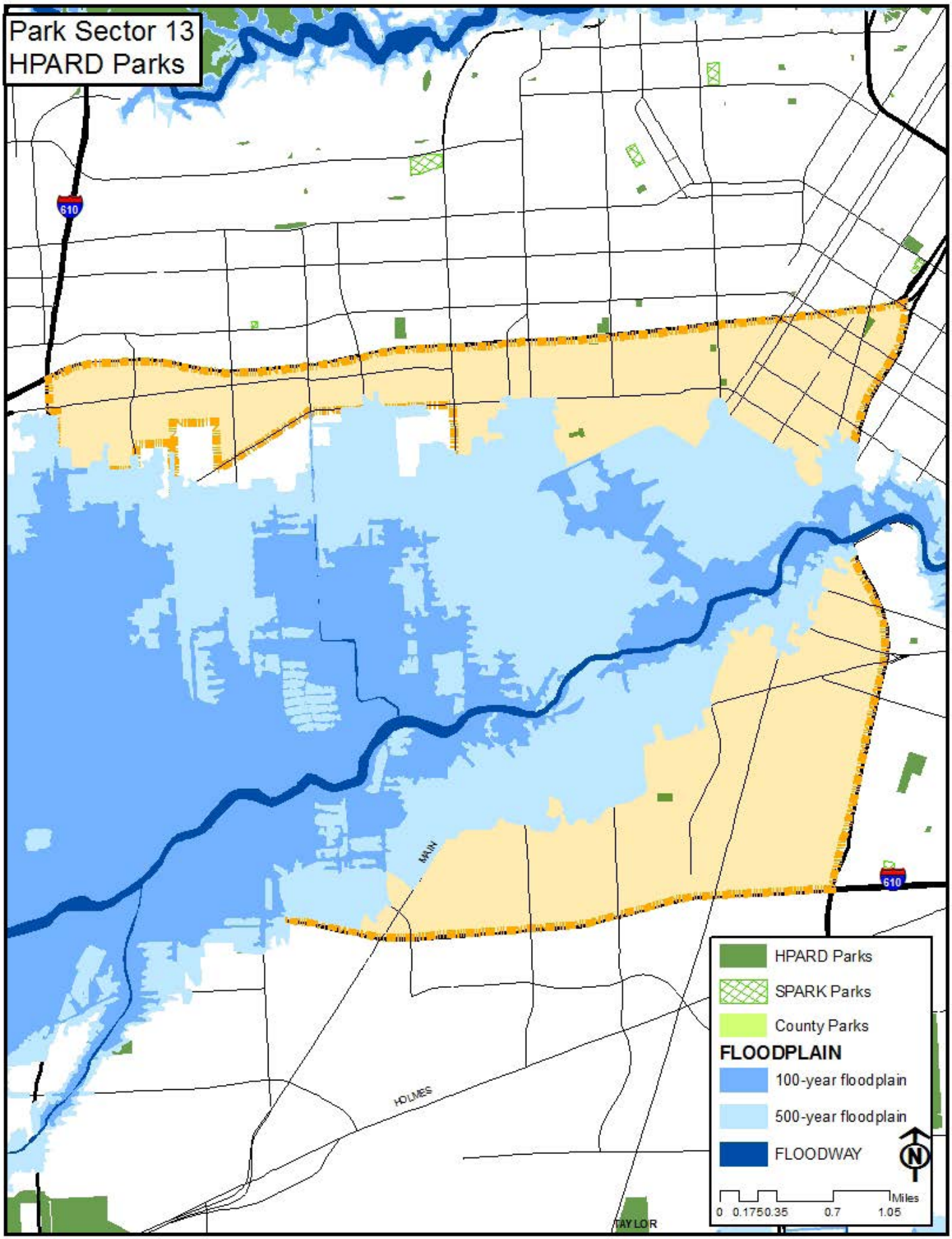


FIGURE 4: PARK SECTOR 13 FLOODPLAIN AREAS

PARK SECTOR 14

PARK SECTOR 14 SUMMARY

PARK SECTOR 14 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and data provided by the Trust for Public Land ParkScore™ Project), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Acquire new parkland
2. Revitalize existing parks
3. Develop Neighborhood connections to parks and trails
4. Develop partnerships with the school system and other entities
5. Preserve environmentally sensitive areas
6. Develop new park facilities

RECOMMENDATIONS

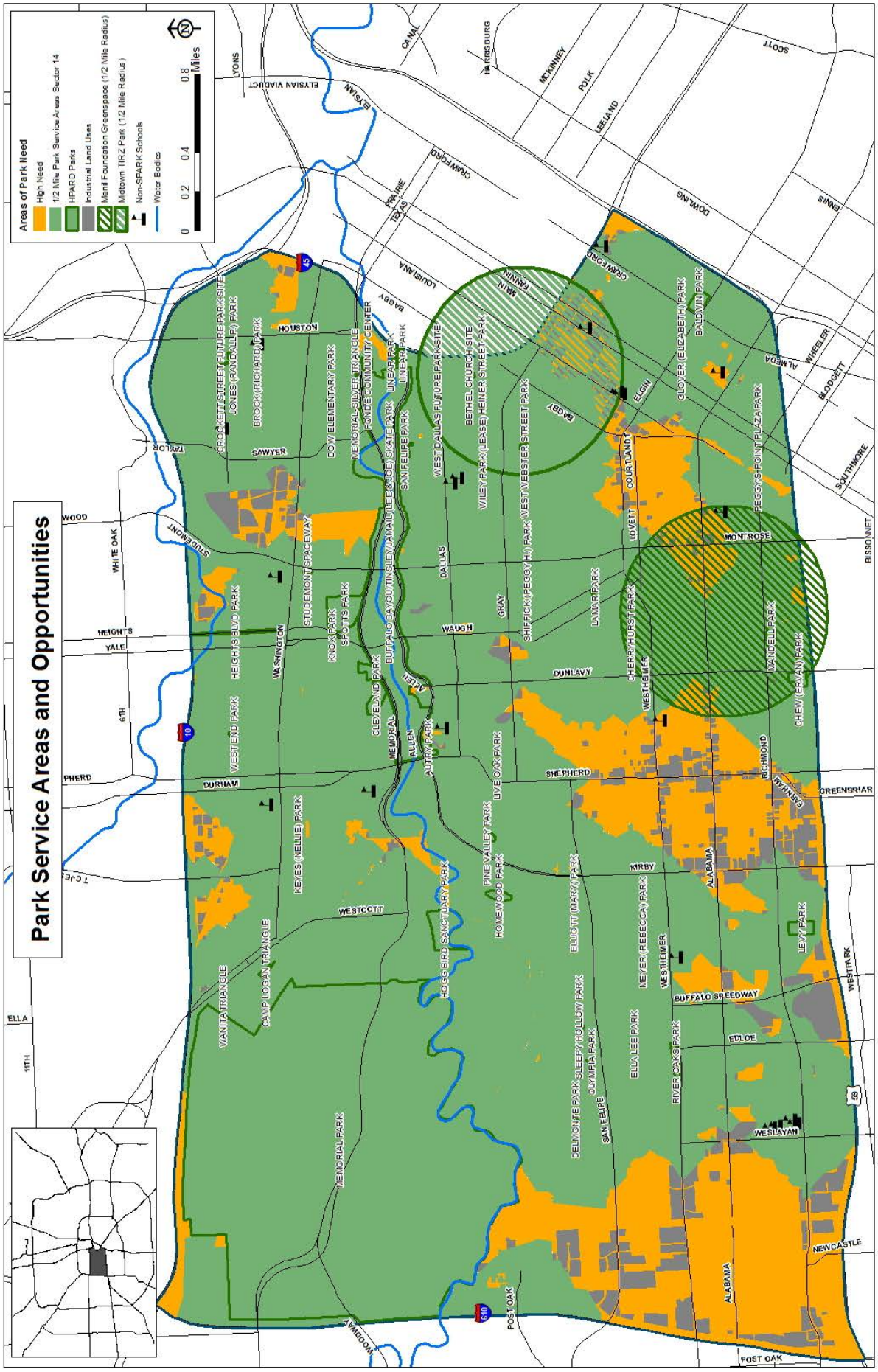
The parks in Park Sector 14 that have the highest need for redevelopment are listed from greatest need to least need: Live Oak Park, Dow Elementary Park and Cleveland Park.

Thirty-seven (37) acres of parkland are needed in this Park Sector. While the majority of the Park Sector is served by parks within half a mile, there are some areas of need in the southern portions of the Park Sector. Higher density residential development has increased throughout most of this Park Sector. Schools not participating in the SPARK School Park Program (Non-SPARK schools) should be explored as potential future partnerships for park space. Buffalo Bayou Park, as part of a very successful private-public partnership, is being redeveloped and it will be a tremendous asset not only to the residents in this immediate area but as a regional asset. Additional connections from the south and west into Buffalo Bayou trail system should be explored. There is a north-south utility corridor, between US-59 and Memorial Park, which runs through the middle of the largest area in this Park Sector that has been identified as needing park and open space access. Trail development should be explored in this corridor to increase connectivity.

The Management Districts and non-profits in the area have actively engaged in acquisition, redevelopment and or maintenance of parks. This is an ongoing effort that should continue in order to keep up with the demands of a fast growing population in this area of the city.

This Park Sector is deficient in playgrounds and soccer fields. In the 2014 survey, the top three priorities of residents in Park Sector 14 when asked what recreational needs existed in their Neighborhood were: hike, bike and walk trails, open space and natural areas, and upgraded recreation centers. Other services and amenities that residents asked for in the write-in portion of the survey were: fitness programs, dance or theater programs, arts and crafts programs, adult tennis programs, outdoor environmental education and camping, yoga and tai chi, community gardens, and adult sand volleyball.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Online Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector


Park Service Areas and Opportunities
Areas of Park Need
High Need
1/2 Mile Park Service Areas Sector 14
HPARD Parks
Industrial Land Uses
Menil Foundation Greenspace (1/2 Mile Radius)
Midtown TIRZ Park (1/2 Mile Radius)
Non-SPARK Schools
Water Bodies
0 0.2 0.4 0.8 Miles
HOUSTON
SAWYER
HEIGHTS
YALE
WOOD
WHITE OAK
STUDEMONT
TAYLOR
6TH
DURHAM
SHEPHERD
WESTCOTT
KIRBY
ELLA
11TH
WAUGH
DUNLAVY
GREENBRIAR
EDLOE
BUFFALO SPEEDWAY
WESTHEIMER
POST OAK
NEWCASTLE
ALABAMA
WESTLAYAN
MONTROSE
COURTLANDT
ELGIN
ALMEDA
WHEELER
BLODGETT
SOUTHMORE
BISSONNET
CROCKETT STREET FUTURE PARK-SITE
JONES (RANDALL F.) PARK
BROCK (RICHARD) PARK
DOW ELEMENTARY PARK
MEMORIAL-SILVER TRIANGLE
FONDREN COMMUNITY CENTER
LINEAR PARK
LINEAR PARK
SAN FELIPE PARK
WEST DALLAS FUTURE PARK-SITE
BETHEL CHURCH SITE
WILEY PARK (LEASE) HEINER STREET PARK
WEST WEBSTER STREET PARK
GLOVER (ELIZABETH) PARK
BALDWIN PARK
PEGGY'S POINT PLAZA PARK
HEIGHTS BLVD PARK
WASHINGTON
STUDEMONT SPACEWAY
KNOX PARK
SPOTTS PARK
BUFFALO BAYOU TINSLEY/JAMAIL (LEE & JOE) SKATE PARK
DALLAS
GRAY
SHIPTON (PEGGY H.) PARK
LAMAR PARK
CHERRYHURST PARK
MANDELL PARK
CHEVY (ERVAN) PARK
WESTHEIMER
RICHMOND
EASTWYN
WEST END PARK
CLEVELAND PARK
MEMORIAL
ALLEN
ALLEN
AUTRY PARK
LIVE OAK PARK
KEYES (NELLIE) PARK
PINE VALLEY PARK
HOMEWOOD PARK
ELLIOTT (MARY) PARK
MEYER (REBECCA) PARK
ALABAMA
LEVY PARK
WESTTR RK
WANITA TRIANGLE
CAMP LOGAN TRIANGLE
HOGG BIRD SANCTUARY PARK
DELMONTE PARK
SLEEPY HOLLOW PARK
OLYMPIA PARK
SAN FELIPE
ELLA LEE PARK
RIVER OAKS PARK
MEMORIAL PARK
WOODWAY
POST OAK
ALABAMA
NEWCASTLE
WESTLAYAN
BUFFALO SPEEDWAY
EDLOE
KIRBY
SHEPHERD
GREENBRIAR
DUNLAVY
WAUGH
MONTROSE
COURTLANDT
ELGIN
ALMEDA
WHEELER
BLODGETT
SOUTHMORE
BISSONNET
HOUSTON
SAWYER
HEIGHTS
YALE
WOOD
WHITE OAK
STUDEMONT
TAYLOR
6TH
DURHAM
WESTCOTT
ELLA
11TH
CANAL
HARRISBURG
MCKINNEY
POLK
LEELAND
SCOTT
LYONS
ELYSIAN VIADUCT
ELYSIAN
CRAWFORD
PRAIRIE
TEXAS
LOUISIANA
BAGBY
MAIN
FANNIN
DOWLING
BINNS
45
10
610
59

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Bethel Church Site	801	Andrews	0.47	N/A
Brock, Richard Park (formerly Jones, Randall Park)	1709	Bingham	0.45	N/A
Camp Logan Triangle	6401	Coppage/Rodrigo	0.98	N/A
Crockett Street Future Park Site	1900	Crockett	0.12	N/A
Dow Elementary Park	1919	Kane	0.25	N/A
Ella Lee Park	2030	Larchmont	0.30	N/A
Heiner Street Future Park Site		Heiner Street	0.18	N/A
Glover (Elizabeth) Park	3118	Elgin	0.29	N/A
Jones (Randall P.) Park (formerly Summer Street Park)	1600	Summer St	0.34	N/A
Keyes (Nellie) Park	801	Lester	0.50	0.12
Kirby Park	900	Kirby	0.40	N/A
Knox Park	229	S. Heights	0.35	N/A
Lamar Park	1400	Hyde Park/Waugh Dr	0.40	N/A
Live Oak Park	2000	Brentwood	0.60	N/A
Naeem Choudhri (Jetall) Park	6415	Taggart/Minola	0.50	N/A
Olympia Park	3600	Olympia	0.30	N/A
Peggy's Point Plaza Park	4240	Main	0.44	N/A
Pine Valley Park	2431	Pine Valley	0.40	N/A
Shiffick (Peggy H.) Park	700	Bomar	0.08	N/A
Sleepy Hollow Park	3400	Sleepy Hollow	0.20	N/A
The Park on San Felipe	1702	Post Oak Lane	0.10	N/A
Wanita Triangle	6600	Wanita	0.50	N/A
West Dallas Future Park Site	1706	W Dallas	0.14	N/A
West End Park	1418	Patterson	0.49	0.13
Total HPARD Pocket Park Acreage			**8.60**	
Neighborhood Parks				
Autry Park	911	Shepherd/Allen Parkway	2.84	0.17
Baldwin Park	1701	Elgin	4.88	0.32
Cherryhurst Park	1700	Missouri	1.90	0.20
Chew (Ervan) Park	4502	Dunlavy	3.40	0.21
Cleveland Park	200	Jackson Hill	10.20	0.35
Delmonte Park	3750	Delmonte	1.10	N/A
Elliott (Mary) Park	3000	Chevy Chase	1.40	N/A
Homewood Park	2943	Lazy Lane	3.00	N/A
Levy Park	3801	Eastside	5.60	0.24
Mandell Park	1500	Richmond Ave.	1.24	N/A
Memorial-Silver Triangle	1901	Memorial Way	1.10	0.23
Meyer (Rebecca) Park	3200	Reba	1.80	N/A
River Oaks Park	3600	Locke Lane	5.10	0.25
West Webster Street Park	1501	West Webster Street	1.14	N/A
Wiley Park (Lease)	1414	Gillette	1.00	N/A
Total HPARD Neighborhood Park Acreage			**48.30**	

Community Parks				
Buffalo Bayou/Tinsley Park /Jamail (Lee and Joe) Skate Park	18-3600	Allen Pkwy/Memorial Dr	156.52	4.90
Hogg Bird Sanctuary Park	100	Westcott	16.47	N/A
Spotts Park	401	S. Heights Blvd	16.24	1.60
	Total HPARD Community Park Acreage		**160.53**	
Regional Parks				
Memorial Park	6501	Memorial Drive	1458.01	*25.00
	Total HPARD Regional Park Acreage		**1458.01**	
Linear Parks / Greenways				
Heights Blvd. Park		Heights Blvd.	3.25	0.20
Linear Park		Sabine St/Sesqui. Park	2.56	0.26
MKT (Inside of PS only)				1.10
Metropolitan MSC				0.33
	Total HPARD Corridor Park Acreage		**5.81**	
	Total HPARD Park Acreage		**1,681.25**	
	Total HPARD Trail Length			**35.61**

EXISTING COMMUNITY CENTERS AND POOLS

Community Centers and Pool Facilities	Address	Zip Code	Agency Responsible
Cherryhurst Community Center	1700 Missouri	77006	HPARD
Memorial Park Pool	6501 Memorial Drive	77007	HPARD
Metropolitan Multi-Service Center Community Center and Pool	1475 West Gray	77019	HPARD
River Oaks Community Center	3600 Locke Lane	77027	HPARD

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger).The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Approximately 18% of the area in this Park Sector is in need of parkland accessible within a ½ mile, as compared to the 55% of the population of the City of Houston who need park access. Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains 1,681 acres of parkland (Harris County, HPARD & other providers) and has a total of 39 miles of trail. Of the 10,900 acres in this Park Sector, 15% of this acreage is parkland.
- There are approximately 91,000 residents, 65% are White and there is a high percentage of adults (20-54yrs) and seniors (55+yrs).
- An additional 37 acres of land is needed in this Park Sector. The map shows high need in southwest and south central portion of the Park Sector. This is based on the current population (2010 US Census) of the Park Sector and needs assessment done for Pocket, Neighborhood and Community parks (number of acres per 1,000 people). In addition, higher density residential development is occurring along the Washington corridor and there is increasing usage of existing parks.
- H-GAC population projections estimate that this area will add almost 50,000 residents by 2040. To meet the parkland needs for the estimated 2040 population an additional 106 acres of parkland will be needed.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	23	12	40	21	29	8	6	1	4	2	2	5	7	9
2015 Existing	22	12	40*	21	29	8	6	1	4	2	2	5	7	2
2015 Needed	1	-	-	-	-	-	-	-	-	-	-	-	-	7
2040 Needed	12	-	-	-	-	-	-	-	-	1	-	-	-	5

* This number includes 1 mile of connector trail between Buffalo Bayou and Memorial Park currently planned under the Bayou Greenways Initiative, BG2020.

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.
2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.
3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.
4. Annual Operation & Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation per resident in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$5,000,000	37 Acres- $81,000,000	$31,000,000	$6,000,000
2040	$14,000,000	106 Acres- $231,000,000	$68,000,000	$3,000,000
TOTAL 2040	$19,000,000	143 Acres- $312,000,000	$99,000,000	$9,000,000

PARK SECTOR PROFILE 14

LOCATION AND POLITICAL BOUNDARIES

Park Sector 14 is located inside the 610 loop and bounded on the north by IH-10 West, on the east by IH-45, on the south by Highway 59 South and on the west by 610.
Park Sector Size: 10,899.9 acres or 17 square miles
Population: 91,105 people, Density: 5,359 persons/sq. mi.
Political Boundaries within Park Sector 14:

- Council Districts: G, C, H and D
- Super neighborhoods contained in this Park Sector: Washington Avenue Coalition/Memorial Park, Afton Oaks/ River Oaks Area, Greenway/Upper Kirby Area, Neartown/Montrose, Midtown and Fourth Ward
- Tax Increment Reinvestment Zones: Upper Kirby, Midtown, Fourth Ward, Memorial Heights, Old Sixth Ward and Market Square
- Management Districts: Upper Kirby, Montrose, Midtown and a small portion of the Downtown Houston MD

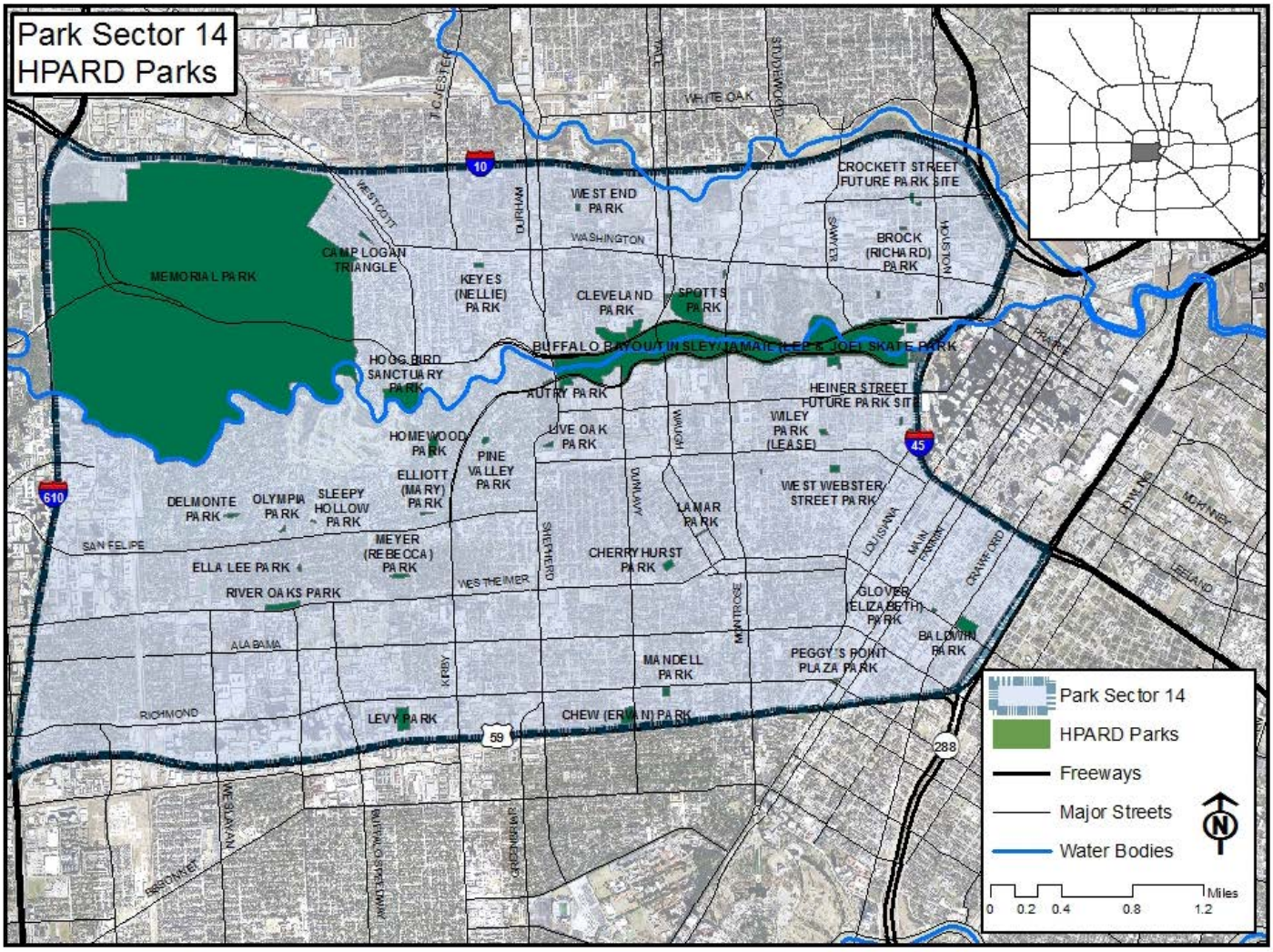


FIGURE 1. PARK SECTOR 14 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 14 Population	Park Sector 14 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**91,105**	-	**2,119,831**	-
Hispanic or Latino	16,741	18.4%	919,668	43.8%
Non-Hispanic White	59,876	65.7%	537,901	25.6%
Non-Hispanic Black	6,642	7.3%	485,956	23.1%
Non-Hispanic American-Indian	183	0.2%	126,098	6.1%
Non-Hispanic Asian	6,008	6.6%		
Non-Hispanic Hawaiian or Pacific Islander	42	0.0%		
Non-Hispanic Some Other Race	1,613	1.8%	26,828	1.3%

TABLE 1. PARK SECTOR 14 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains about 4.2% of Houston's total population; the majority of the residents (65.7%) are non-Hispanic white, followed by Hispanic/Latino (18.4%), with other ethnic groups making up the remaining 15.9% of the population.

Population by Age

The age profile for this Park Sector shows that the percent of the population under 18 (10.5%) is significantly lower than that of the rest of the city (26.6%). Further breakdown of the age group reveals that the percent of seniors (55+yrs as defined for HPARD programming) is slightly higher than that of the City of Houston. The young adult population (20-34yrs) is significantly higher than percentage for the City of Houston. This signals that there are fewer children and more young adults in this Park Sector. These demographic trends can help inform future programming and park improvements. It will be important as part of forecasting to understand whether these young adults will make the decision to stay in this area (or inside the 610 loop in general) and have children or move out to the suburbs. Some of these decisions will be based on housing and childcare affordability and availability and quality of schools. The H-GAC Think 2040 Survey results for Harris County (www.ourregion.org/survey/results_age.html) also reveals that for those under 34yrs responding to the question of what factor would be most important in the decision of choosing where to live, the top factors are proximity to activities (walking/bicycling) followed by being close to employment. For those 35 to 44 yrs the most important factor is quality of schools followed by proximity to employment and for those 45-54 yrs the most important factors are proximity to employment and safety.

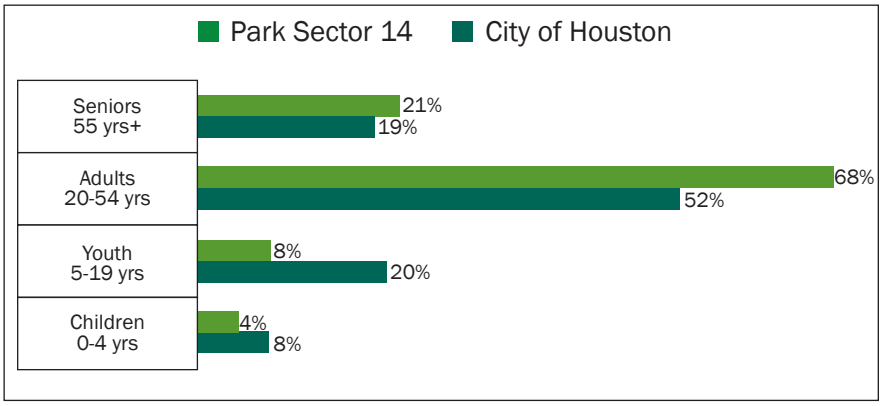


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 14 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

Program Group	Age Groups	PS 14 Population	PS 14 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	3,655	4%	4%	166,066	8%	8%
Youth	5-9yrs	2,463	3%	8%	148,843	7%	21%
	10-14yrs	2,175	2%		135,622	7%	
	15-19yrs	2,588	3%		140,673	7%	
Adults	20-34yrs	36,020	38%	68%	539,348	26%	52%
	35-44yrs	15,009	16%		286,117	14%	
	45-54yrs	12,434	13%		265,060	13%	
Senior	55-64	11,206	12%	21%	204,852	10%	19%
	65+	8,194	9%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 14 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 58,442 housing units in this Park Sector. The percentage of vacant housing in Park Sector 14 (12.2%), is almost exactly the same as the vacancy rates for the entire city of Houston (12.3%). Renters (53%) in this Park Sector exceed the number of homeowners (34%). This Park Sector has experienced significant growth in the last few years and is expected to increase in density by 2035. According to the City of Houston Inner West Loop Sub-Area Mobility study draft (Kimley-Horn and Associate, December 2012), the average population density by Traffic Analysis Zone (projections utilizing H-GAC data and city staff known developments in the area) will increase from 9.8 persons/acre in 2010 to 16.9 persons/acre by 2035 (both measures excluding Memorial Park). Growth will occur in all areas of this Park Sector but are projected to concentrate along Washington Avenue, south of West Dallas, along the south of Westheimer to US-59 and roughly between Wesleyan and Spur 527.

Income

The median household income for this Park Sector is $51,918, which places this Park Sector among the wealthiest in the City. Nonetheless, according to the 2011 American Community Survey almost 50%, or 25,521 households in this area, have an income below the Houston median household income ($48,322).

Educational Attainment

Within Park Sector 14 the percent (65%) of individuals 25+ years of age with a Bachelor's degree or higher is over a third higher than the relative percent for the entire City of Houston (28%). The percentage of those with no degree or no more than a high school diploma (16%) is significantly lower than the percentage (48%) of those within the same population for the City of Houston.

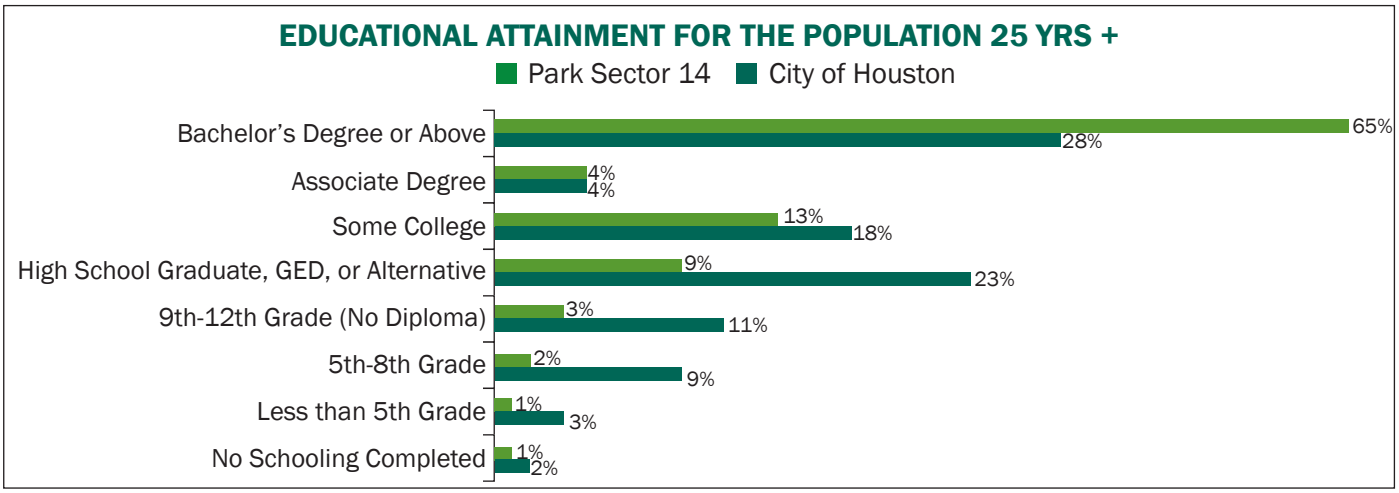


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 10.2% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that 6.8% of the adult population received a diagnosis of diabetes by a professional, which is below the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that 38% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is higher than that of the entire city (32%). The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%.

Finally, the survey shows that 18.3% of the population does not engage in moderate physical activity at all, which is lower than the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

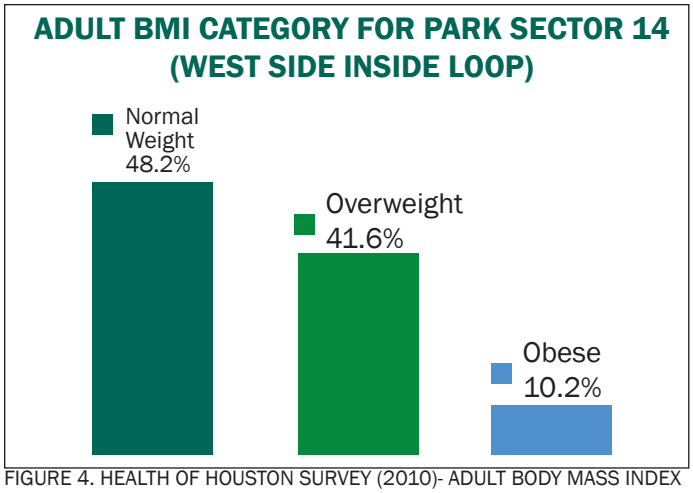


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	18.30
1	2.60
2	14.90
3	15.80
4	10.40
5	5.10
6	3.90
7	29.00

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	22,208	62.5%	2,748	42.2%
Multi-Family	7,286	20.5%	609	9.4%
Commercial	1,396	3.9%	707	10.9%
Office	549	1.5%	468	7.2%
Industrial	494	1.4%	324	5.0%
Public & Institutional	89	0.3%	231	3.5%
Transportation	46	0.1%	120	1.8%
Parks & Open Space	88	0.2%	446	6.8%
Undeveloped	3,248	9.1%	844	13.0%
Agriculture Production	120	0.3%	18	0.3%
TOTAL	35,524	-	6,515	-

TABLE 4. LAND USE BY DESCRIPTION (2012 HCAD)

Park Sector 14 is predominantly single-family parcels (62.5%), with multi-family parcels (20.5%) making up the next largest land use category for this Park Sector. Most of the industrial parcels in this area (1.4%) are concentrated in the northeast section of this Park Sector. The third largest land use category is undeveloped parcels, which make up 9.8% of all parcels within this Park Sector. Office parcels make up 1.8% of all parcels within this Park Sector, which are mainly clustered in the Greenway Plaza, Midtown, and Galleria areas. The Harris County Appraisal District (HCAD) shows the land use for Parks and Open Space at 446 acres; however, HPARD inventory measures the total acreage of all parks in this Park Sector at 1,680.53 acres.

Many of the single family parcels are close to Memorial Park and the Hogg Bird Sanctuary, but there are also many single family parcels south of Dallas Street and east of Shepherd Drive. There is also a Pocket of single family parcels in the northeast corner of the Park Sector, which is surrounded by industrial and undeveloped parcels. The grouping of undeveloped parcels between West Alabama and Richmond Streets, just west of Montrose, are part of the University of St. Thomas and The Menil Collection. There are also some churches that appear to be incorrectly classified as undeveloped as well as some parcels in the industrial portion of the Park Sector and Midtown which will need to be further researched. So, while undeveloped parcels account for 9.1% of all parcels in this Park Sector, a smaller percent of that is truly undeveloped. However, opportunities for adding more parkland in this Park Sector should be explored given the expected growth.

According to data from PD on residential permits sold between 2004 to 2011, 16,000, or over 20%, of all residential permits in the city came from Park Sector 14. This figure is higher than any other Park Sector in the city; it is also significant to note that 66% of these units were multi-family units and this trend is expected to continue. Most multi-family developments in this area choose not to dedicate parkland and pay the fee-in-lieu to meet the requirements of the Park and Open Spaces ordinance due to the high cost of land. Therefore, new residents are creating increased demand and usage of existing parks. To keep up with new development and residents, improvements need to be made to existing parks. However, simultaneously, to keep up with the population growth, land acquisition and land dedication need to be another integral part of the strategy in this Park Sector. Another approach that should be explored is identifying key park access corridors (green fingers) to existing parks. The TIRZs in the area need to be encouraged to work with developers to provide land dedications or easements for wider sidewalks or access ways to park properties through the Park and Open Space Ordinance. Other strategies that need to be pursued to increase access to existing parks as well are: identifying and addressing existing sidewalk gaps in the area (gaps on some major thoroughfares and minor collectors were identified in the Inner West Loop Sub-Area Mobility Study), creating more multi-modal options with emphasis on bikes and pedestrians, and changing policies for allowing sidewalk variances at the time of permitting.

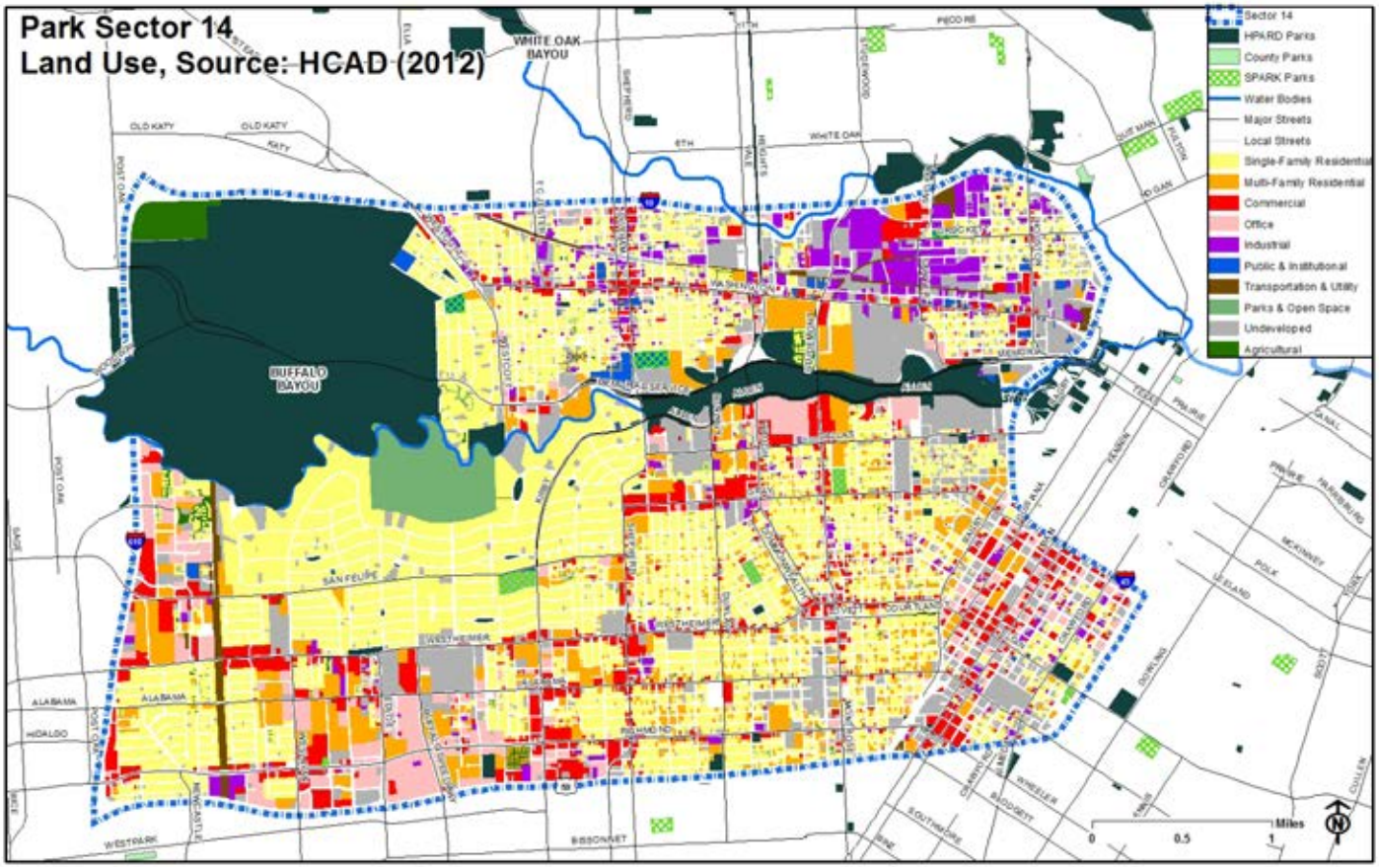


FIGURE 5. PARK SECTOR 14 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

HPARD PARKS AND TRAILS

The Houston Parks and Recreation Department operates 42 parks in this Park Sector, totaling 1,680.53 acres of parkland. There are no county parks in this Park Sector. The Midtown Management District operates a public park of 0.6 acres in this Park Sector. In addition, there is a well-used green space (over 1.5 acres) across from the Menil Collection (Museum) and the Rothko Chapel that was not counted as part of the acreage in Table 4 since this is not officially called a park. At this time HPARD staff is unaware of any plans to build on this area (plans to build a Café are for a different area). With the expected growth in the area and the role that the Menil Campus plays, not only on the cultural identity of the city, but is an economic driver, it is in the city's best interest to keep this property as green space.

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Bethel Church Site	801	Andrews	0.47	N/A
Brock, Richard Park (formerly Jones, Randall Park)	1709	Bingham	0.45	N/A
Camp Logan Triangle	6401	Coppage/Rodrigo	0.98	N/A
Crockett Street Future Park Site	1900	Crockett	0.12	N/A
Dow Elementary Park	1919	Kane	0.25	N/A
Ella Lee Park	2030	Larchmont	0.30	N/A
Heiner Street Future Park Site		Heiner Street	0.18	N/A
Glover (Elizabeth) Park	3118	Elgin	0.29	N/A
Jones (Randall P.) Park (formerly Summer Street Park)	1600	Summer St	0.34	N/A
Keyes (Nellie) Park	801	Lester	0.50	0.12
Kirby Park	900	Kirby	0.40	N/A
Knox Park	229	S. Heights	0.35	N/A
Lamar Park	1400	Hyde Park/Waugh Dr	0.40	N/A
Live Oak Park	2000	Brentwood	0.60	N/A
Naeem Choudhri (Jetall) Park	6415	Taggart/Minola	0.5	N/A
Olympia Park	3600	Olympia	0.30	N/A
Peggy's Point Plaza Park	4240	Main	0.44	N/A
Pine Valley Park	2431	Pine Valley	0.40	N/A
Shiffick (Peggy H.) Park	700	Bomar	0.08	N/A
Sleepy Hollow Park	3400	Sleepy Hollow	0.20	N/A
The Park on San Felipe	1702	Post Oak Lane	0.10	N/A
Wanita Triangle	6600	Wanita	0.50	N/A
West Dallas Future Park Site	1706	W Dallas	0.14	N/A
West End Park	1418	Patterson	0.49	0.13
Total HPARD Pocket Park Acreage			**8.60**	
Neighborhood Parks				
Autry Park	911	Shepherd/Allen Parkway	2.84	0.17
Baldwin Park	1701	Elgin	4.88	0.32
Cherryhurst Park	1700	Missouri	1.90	0.20
Chew (Ervan) Park	4502	Dunlavy	3.40	0.21
Cleveland Park	200	Jackson Hill	10.20	0.35
Delmonte Park	3750	Delmonte	1.10	N/A
Elliott (Mary) Park	3000	Chevy Chase	1.40	N/A
Homewood Park	2943	Lazy Lane	3.00	N/A
Levy Park	3801	Eastside	5.60	0.24
Mandell Park	1500	Richmond Ave.	1.24	N/A
Memorial-Silver Triangle	1901	Memorial Way	1.10	0.23
Meyer (Rebecca) Park	3200	Reba	1.80	N/A
River Oaks Park	3600	Locke Lane	5.10	0.25
West Webster Street Park	1501	West Webster Street	1.14	N/A
Wiley Park (Lease)	1414	Gillette	1.00	N/A
Total HPARD Neighborhood Park Acreage			**48.30**	

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 14

Community Parks				
Buffalo Bayou/Tinsley Park /Jamail (Lee and Joe) Skate Park	18-3600	Allen Pkwy/Memorial Dr	127.82	4.90
Hogg Bird Sanctuary Park	100	Westcott	16.47	N/A
Spotts Park	401	S. Heights Blvd	16.24	1.60
Total HPARD Community Park Acreage			**160.53**	
Regional Parks				
Memorial Park	6501	Memorial Drive	1458.01	25*
Total HPARD Regional Park Acreage			**1,458.01**	
Corridor/ Linear Parks and Greenways				
Heights Blvd. Park		Heights Blvd.	3.25	0.2
Linear Park		Sabine St/Sesqui. Park	2.56	0.26
MKT (Inside of PS only)				1.1
Metropolitan MSC				0.33
Total HPARD Corridor Park Acreage			**5.81**	
	Total HPARD Park Acreage		**1,681.25**	
	Total HPARD Trail Length			**35.61**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 14 *continued*
*Trails also include mountain bike trails at Memorial Park and natural trails at the Arboretum.

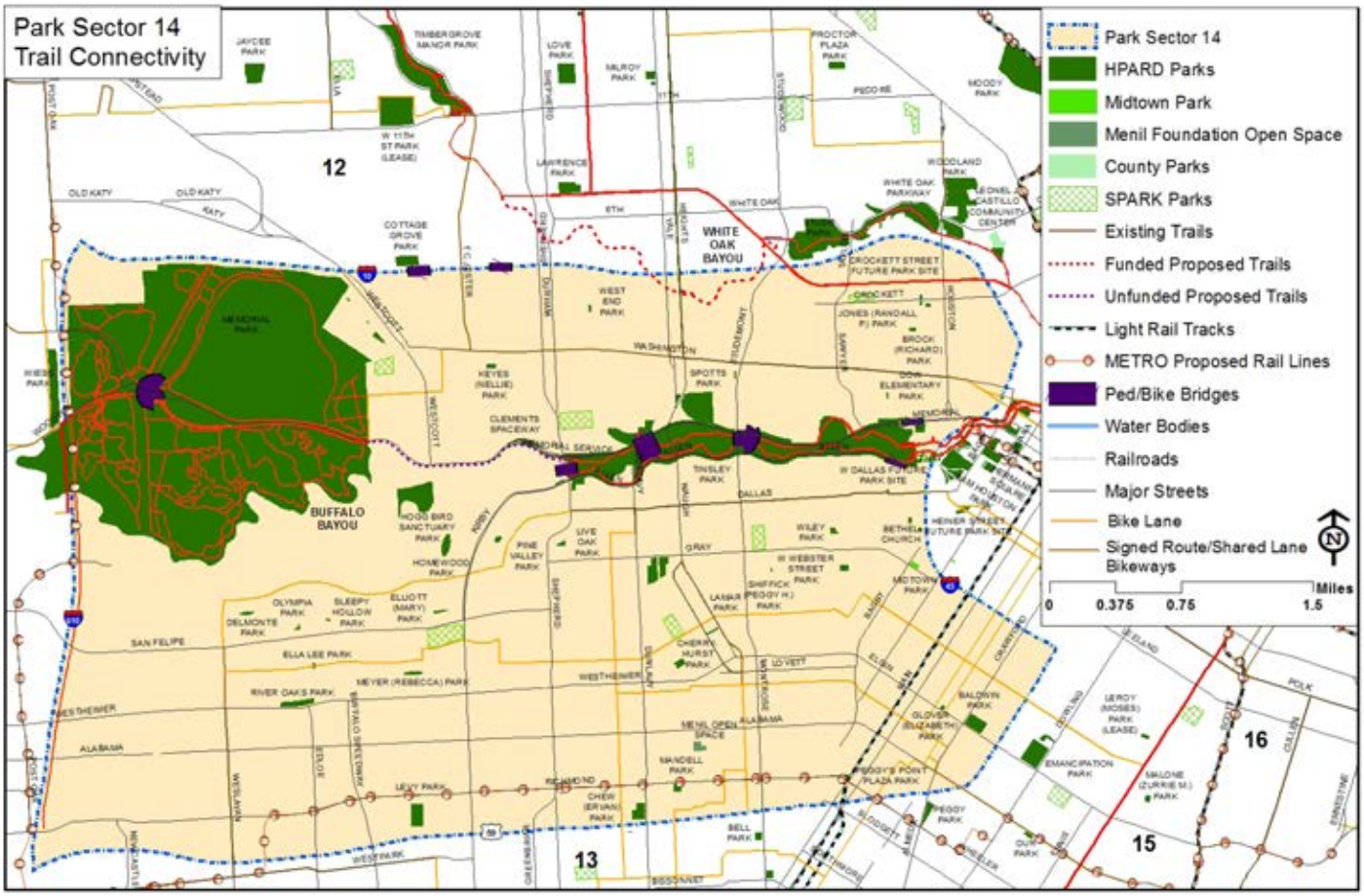


FIGURE 6. PARK SECTOR 14 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

Figure 6 shows the existing shared bike lanes/shared routes, trails, and proposed extensions of the Buffalo Bayou-Memorial Park and White Oak Bayou trails. Currently, there are 35.61 miles of HPARD trails, both along Buffalo Bayou and inside parks. The MKT trail also runs through this Park Sector, connecting this Park Sector with downtown and north of IH-10 along a 1.1 mile trail (portion inside this Park Sector). An additional measure of sustainability according to the Measuring Sustainability report is the number of miles of Bayou Greenway Trails completed. Currently, a major gap in the trail system exists between Memorial Park and Buffalo Bayou and should be addressed. If a trail were to link these two areas along the bayou, it would provide a continuous east/west connection throughout the Park Sector. The existing trail from Buffalo Bayou goes under Shepherd Drive and abruptly ends after that, which could be expanded to connect to Memorial Park. However, Buffalo Bayou is the most environmentally sensitive part of Memorial Park; care would need to be taken to ensure that overuse and erosion would not happen if a trail were to be constructed into this section of the park (Memorial Park Conservation Master Plan, 2004). In addition, north-south connections between the MKT trail or White Oak Bayou and Buffalo Bayou should be explored. Memorial Park is not very well connected for pedestrian and bike access. With the increased density along the Washington Corridor, the access to Memorial Park from this area could be enhanced to be inviting to non-motorized vehicles. Furthermore, there may be an opportunity for north-south connection along the utility easement south of Memorial Park (see Figure 5). Analyzing connectivity between the future light rail, bikeways, trails, and parks could highlights gaps in the system as to help decide where to locate future trails and amenities.

SPARK Parks

There are five Elementary Schools and one High School in the SPARK Parks Program, which provides access to park space and a variety of amenities to the public.

SPARK Parks				
Facility Name	**Address**	**Street**	**Total Acres***	**Amenities**
Crockett Elementary School	2112	Crockett St	3.45	2 Playgrounds, Outdoor Basketball Pavilion
HS For Law Enforcement And Criminal Justice	4701	Dickson St	10.89	0.26 mi Trail, Baseball Field (unlit)
Memorial Elementary School	6401	Arnot St	5.96	Playground, Pavilion, Half Court Basketball
River Oaks Elementary School	2008	Kirby Dr	12.63	2 Playgrounds, 0.33 mi Trail, 4 Half Courts Basketball
Wharton Elementary School	900	West Gray	6.03	Playground, 0.21 mi Trail, Baseball Field (lit)
Wilson Elementary School	2100	Yupon St	5.34	1 Playground
Total Acres*			**44.30**	

TABLE 6. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 14 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

Open and Green Space

To determine the level of service the 2007 Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by The Trust for Public Land ParkScore™ Project.

The table below shows the level of service (LOS) based on the 2007 HPARD Master Plan recommended standards of a number of acres per 1,000 people using the 2010 Census Population. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 0.1 acres/1,000 people for a Pocket park, this Park Sector meets the standard. For the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 1.5 acres/1,000 people for a community park, Park Sector 14 also meets this standard. For the HPARD regional park standard of 8.0 acres/1,000 people, this Park Sector is also satisfactory. Including the Midtown Park and Menil Museum open space in this analysis, 37 acres of Neighborhood are needed in Sector 14, totaling 37 acres of all types of parkland for the Park Sector. The analysis for level of service and needs is shown on the following page.

Park Type	HPARD Park Number	HC Park Number	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
								Population		91,105	
Pocket Park (<1 acre)	23	0	8.6	0	0.61	9.21	0.1 ac/1,000 people	0.09	0.10	0.73	-0.10
Neighborhood Park (1-15 acres)	17	0	54.11	0	0	54.11	1 ac/1,000 people	0.59	0.53	37.00	37.00
Community Park (16-150 acres)	3	0	160.53	0	0	160.53	1.5 ac/1,000 people	1.76	1.76	-23.87	-23.87
Regional Parks (151+ acres)	1	0	1,458.01	0	0	1,458.01	8.0 ac/1,000 people				
TOTAL	46	0	1,681.3	0	0.61	1,682	19 acres/1,000			37.73	37.00

TABLE 7. HPARD LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Many of the Pocket Parks in this Park Sector, which comprise more than half of the Park Sector's parks, are smaller, undeveloped spaces with few to no amenities. The cost of land is this Park Sector is very high; thus larger parcels of land would likely be difficult to acquire. Instead, the acquisition of land in this Park Sector should be explored to create more Neighborhood Parks with programmed amenities in the areas that are not serviced by existing parks, as shown in Figure 7.

Buffalo Bayou Park: Is managed and operated by the Buffalo Bayou Partnership (BBP), a non-profit. BBP, HPARD, Harris County Flood Control District, and Downtown Tax Increment Reinvestment Zone #3 are working together to fund comprehensive improvements for the park. While Buffalo Bayou was considered a community park in this analysis, it also serves as a corridor park connecting east/west across the Park Sector to the Central Business District. However, acquiring more "green fingers," or pedestrian-safe and green access points into parks and open space systems that would connect to Buffalo Bayou is imperative. To better serve residents in this Park Sector, there should be multiple points of access along Buffalo Bayou to provide a variety of entry points into the network of parkland, trails, and amenities. However, the notion of green fingers that provide access to a park should not necessarily be confined to actual parkland. Easements or wide sidewalks with vegetation that provide an inviting and safe means of accessing parks and open space should also be considered green fingers (Buffalo Bayou Park Master Plan, 2011). This street consists of already developed tracts; however, by providing wide sidewalks and vegetation in the public Right-of-Way, a welcoming and safe pedestrian realm could be created that connects multiple parks. An east/west pedestrian crossing on Scottland Street, from Cleveland Park to Jackson Hill bridge into Buffalo Bayou Park, would also need to be created to ensure pedestrian safe crossing in this green finger. Gillette Street is another potential green finger that could serve as a north/south green finger between West Webster, Wiley and Buffalo Bayou Parks (Buffalo Bayou Park Master Plan, 2011). Although no bike connection currently exists from Gillette Street into Buffalo Bayou, there is a pedestrian stair bridge into the park. Additionally, there is a ramp pedestrian bridge that passes on Nolda Street over IH-10 to City of Houston Street in Park Sector 12 close to Cottage Grove Park (see Figure 6). These streets and pedestrian connections could be developed into green fingers that would provide a vital connection between Park Sectors and across a major freeway.

Memorial Park is a regional park that serves the entire city; however, the majority of its acreage is located in this Park Sector and serves its population. The analysis of Regional Parks and their level of service is in the City of Houston profile section. This Park Sector is still deficient in parkland, which highlights the importance of conserving parkland and acquisition to keep up with the quality of life in the city. Citizens recognize this as well. In the Think 2040 Survey conducted by H-GAC in 2012 respondents stated they would spend $25 on "conserving wetlands, prairies, forests (purchasing land)" when asked how they would allocate funding to improve the region's environment. This was the highest allocated amount (over air quality initiatives, education about the environment, recycling, water quality planning and weatherization). In this same survey, 96% of Harris County residents agreed that steps should be taken to preserve the region's wetlands, prairies, forests and shorelines. The Washington Livable Center Draft Plan identifies over 10 parcels for new parks and open spaces that would be worth exploring given the growth in the area. The Midtown Livable Center Plan highlights the need for 2.5 acres of park in the area.

Another way to measure the level of service provided by parks is by looking at a "walkable" distance (½ mile radius) from the park regardless of the size of this park (see Figure 5). The Shell Center for Sustainability at Rice University published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts and Decision Makers and used 1/4 of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King, 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ study mapped the park needs of the City of Houston based on accessibility by density, age and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL), 2012). The map in Figure 7 was produced using data provided by the Trust for Public Land (TPL) ParkScore™ Project. The areas in green on the map represent that areas within ½ mile existing parks not blocked by freeways

or major roads; the darker hatched area represents the service area of a publicly accessible (owned, developed and maintained by the Midtown TIRZ) park that was not accounted for when the Trust for Public Land (TPL) ParkScore™ data was produced. The lighter hatch corresponds to the Menil Collection greenspace that is used as an outdoor space and is owned and maintained by the museum. It is clear that the new Midtown TIRZ Park (not owned or managed by HPARD) and the greenspace have met a need for this area. Roughly 18% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, which is dramatically lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector. The hatched areas are not accounted in the percentage for the areas served at this time, so the service area percentage is underestimated.

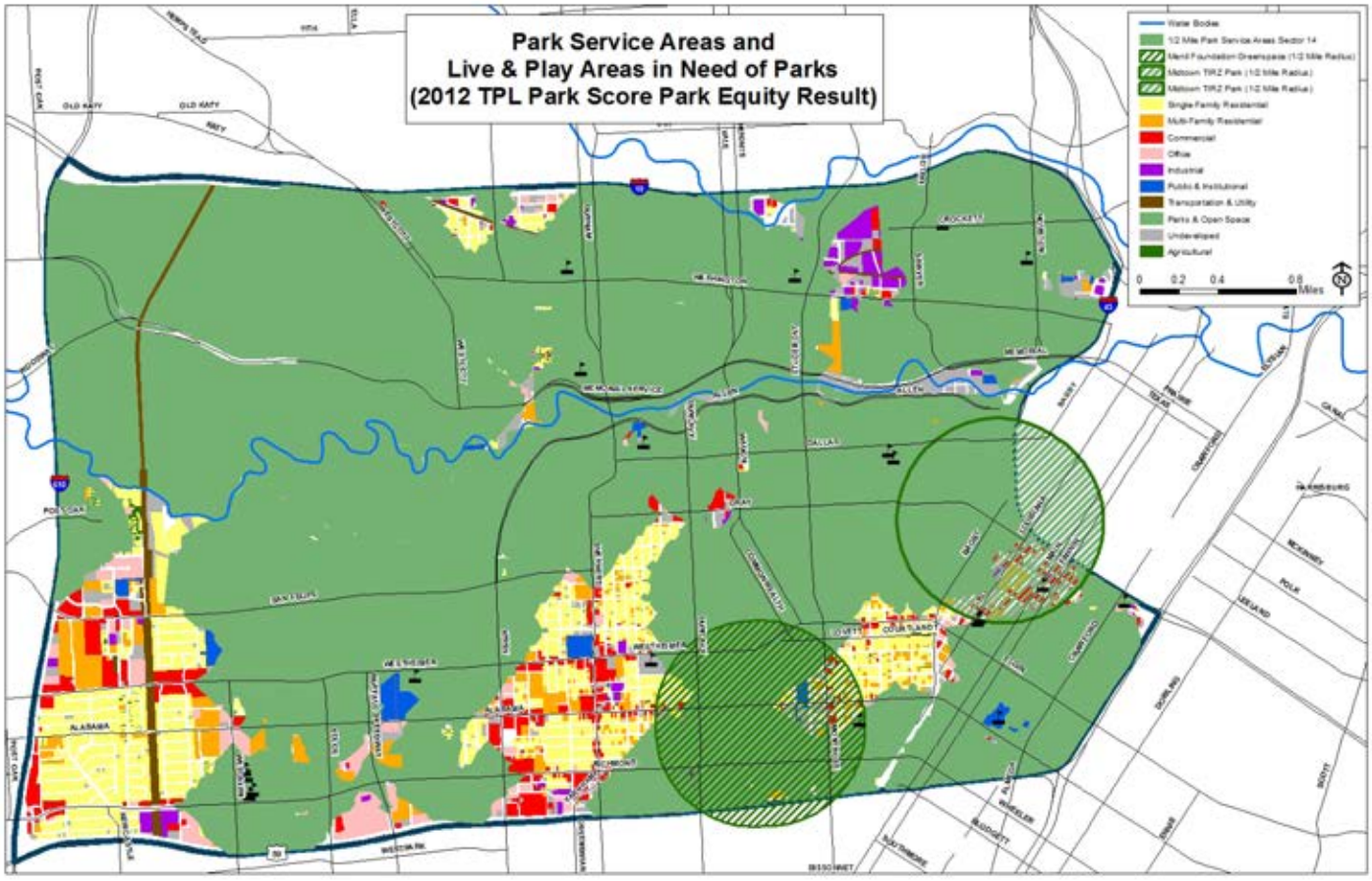


FIGURE 7. PARK SECTOR 14 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

AMENITIES AND SERVICES

This map shows some of the community services available in this area: community centers, multi-service and health centers, schools, and libraries. Three HPARD community centers are located in this Park Sector: Cherryhurst, Fonde, and River Oaks Community Centers.

The Metropolitan Multi-Service Center, which is owned and operated by the City of Houston, is located in this Park Sector. This facility provides a community garden, meeting spaces, child care education, emergency infant food assistance, mental health counseling, senior services, and referrals to other agencies. The West End Health Center is another City facility that is located next door the West End Multi-Service Center and provides family planning, dental care, TB diagnosis, immunizations, and treatment for STDs. The Metropolitan Multi-Service Center, owned and operated by HPARD, is specifically designed to appeal and cater to those with disabilities. It offers the following amenities that are specifically designed for those in wheelchairs and with disabilities: a Playground Without Limits, heated indoor pool, gymnasium, fitness room, tennis courts, baseball field, and structured fitness classes. There is also the Transgender Center, a non-profit agency run by those in the Houston transgender community, which provides homeless services, free counseling, referrals, and free meeting spaces to the transgender community. The libraries in this Park Sector provide computer access, community meeting space, and educational programs.

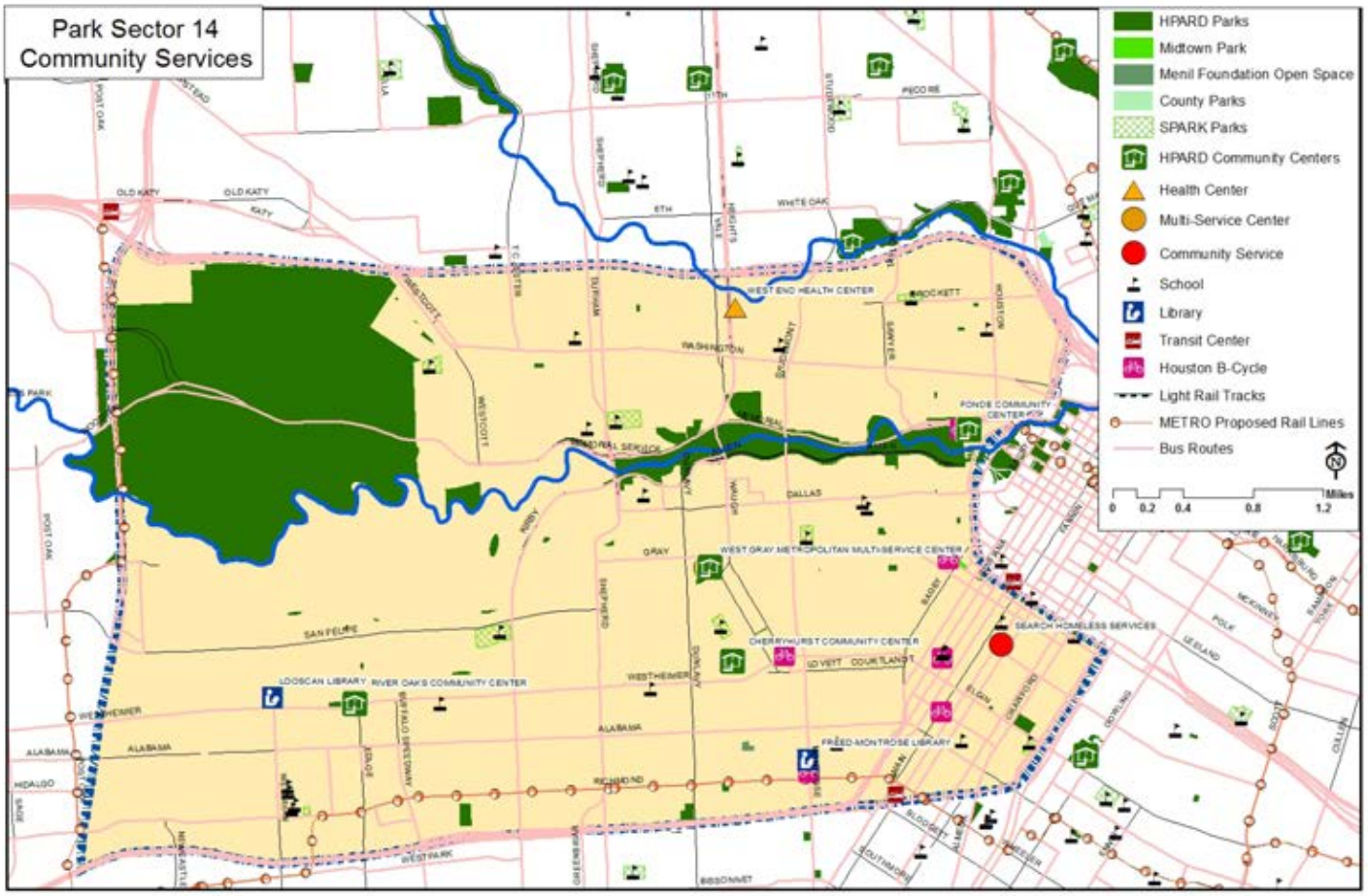


FIGURE 8. PARK SECTOR 13 COMMUNITY SERVICES AND PUBLIC TRANSIT

As of March 2013, six bike share stations (http://houston.bcycle.com/) became active within this Park Sector. There is one 9-bike station located on the Sabine bridge by the Lee and Joe Jamail Skate Park which will serve those using the trails to go toward Downtown where an additional nine bike share stations are available. The remaining five bike share stations are located in Midtown and Montrose.

Amenities - Level of Service

The 2007 HPARD Master Plan standards by amenity have been applied to the amenities in Park Sector 14. The standard for each amenity is compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to the recommended HPARD standards, Harris County and other providers are meeting the needs of the residents for the following facilities: picnic shelters, trails, basketball, tennis and volleyball courts, dog parks, skate parks, community centers, swimming pools, outdoor spray grounds, and baseball and softball fields. This Park Sector is deficient in playgrounds (1) and soccer fields (7).

There is a very obvious need for ball fields and soccer fields throughout the entire city. The Fourth Ward Livable Center Plan assessed that there are no ball fields available for non-league play. There are insufficient fields in Neighborhood Parks and the few fields in the system are monopolized by a few leagues.

	HPARD	Harris County	Other Providers	Total	Recommended HPARD Standard		Current HPARD Level of Service		Current Total Inventory Level of Service		HPARD NEEDS Over/ Under Service	Total Inventory NEEDS Over/ Under Standard
						Population		91,105				
Playgrounds	18	0	4	22	1	4,000	1	5,061	1	4,141	5	1
Picnic Shelters	11	0	1	12	1	10,000	1	8,282	1	7,592	-2	-3
Trails	35.7	0	3.44	39	0.2	1,000	0.39	1,000	0.43	1,000	-17	-39
Outdoor Basketball Courts	16	0	5	21	1	12,000	1	5,694	1	4,338	-8	-13
Tennis	29	0	0	29	1	10,000	1	3,142	1	3,142	-20	-20
Volleyball	8	0	0	8	1	50,000	1	11,388	1	11,388	-6	-6
Dog Parks	6	0	0	6	1	100,000	1	15,184	1	15,184	-5	-5
Skate Parks	1	0	0	1	1	100,000	1	91,105	1	91,105	0	0
Community Centers	4	0	0	4	1	30,000	1	30,368	1	22,776	0	-1
Swimming Pools	2	0	0	2	1	50,000	0	91,105	0	45,553	1	0
Outdoor Spraygrounds	2	0	0	2	1	100,000	1	45,553	1	45,553	-1	-1
Baseball (Lit & Unlit)	3	0	2	5	1 field	30,000	1	30,368	1	18,221	0	-2
Softball (Lit & Unlit)	7	0	0	7	1 field	30,000	0	13,015	0	13,015	-4	-4
Soccer (Lit & Unlit)	2	0	0	2	1 field	10,000	0	45,553	0	45,553	7	7

TABLE 8. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 14
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- Baldwin Park was renovated with Midtown Management District to include new play equipment, site furnishing, and a granite walk in August 2013.
- The historic Bethel Church was renovated in 2013 in conjunction with TIRZ 14 that preserved the building's architecture. Fountains, seat walls, benches, lighting, drinking fountain, fencing, landscaping and irrigation were added to this site.
- Buffalo Bayou is undergoing significant renovations in conjunction with Buffalo Bayou Partnership. There are numerous renovations occurring in accordance with the recommendations of the Master Plan for Buffalo Bayou.
- Glover (Elizabeth) Park, a previously vacant future park site, was developed in conjunction with Midtown Management District to have a dog run, bocce ball court, site furnishings, and a small granite trail in 2014.
- Working together with the Friends of Mandell Park, HPARD redeveloped this park to include: urban gardens, a composting site, site furnishings, concrete walks, and site lighting in 2014.
- The Metropolitan Multi-Service Center is under design to be renovated in 2015. *recent issue
- River Oaks Park is currently under design for improvements in 2015.
- West End Park- CIP funding was used to create an entry plaza for the park, place a border around the playground, and provide site lighting for the park in August 2013.

SUPPLEMENTAL MAPS:

Park Sector 14 Council Districts

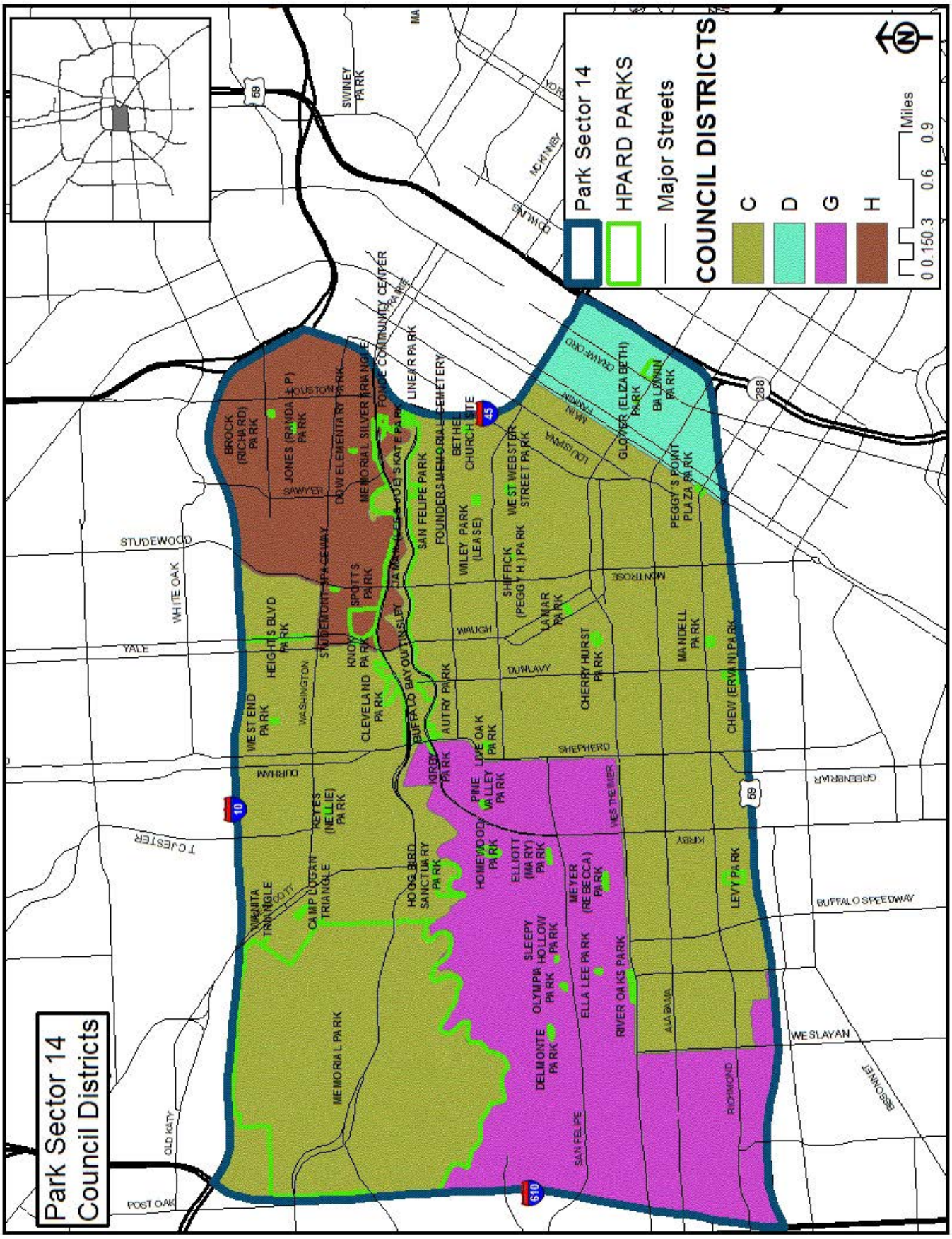


FIGURE 1: PARK SECTOR 14 COUNCIL DISTRICTS

Park Sector 14 Tax Increment Reinvestment Zone (TIRZs) and Management Districts

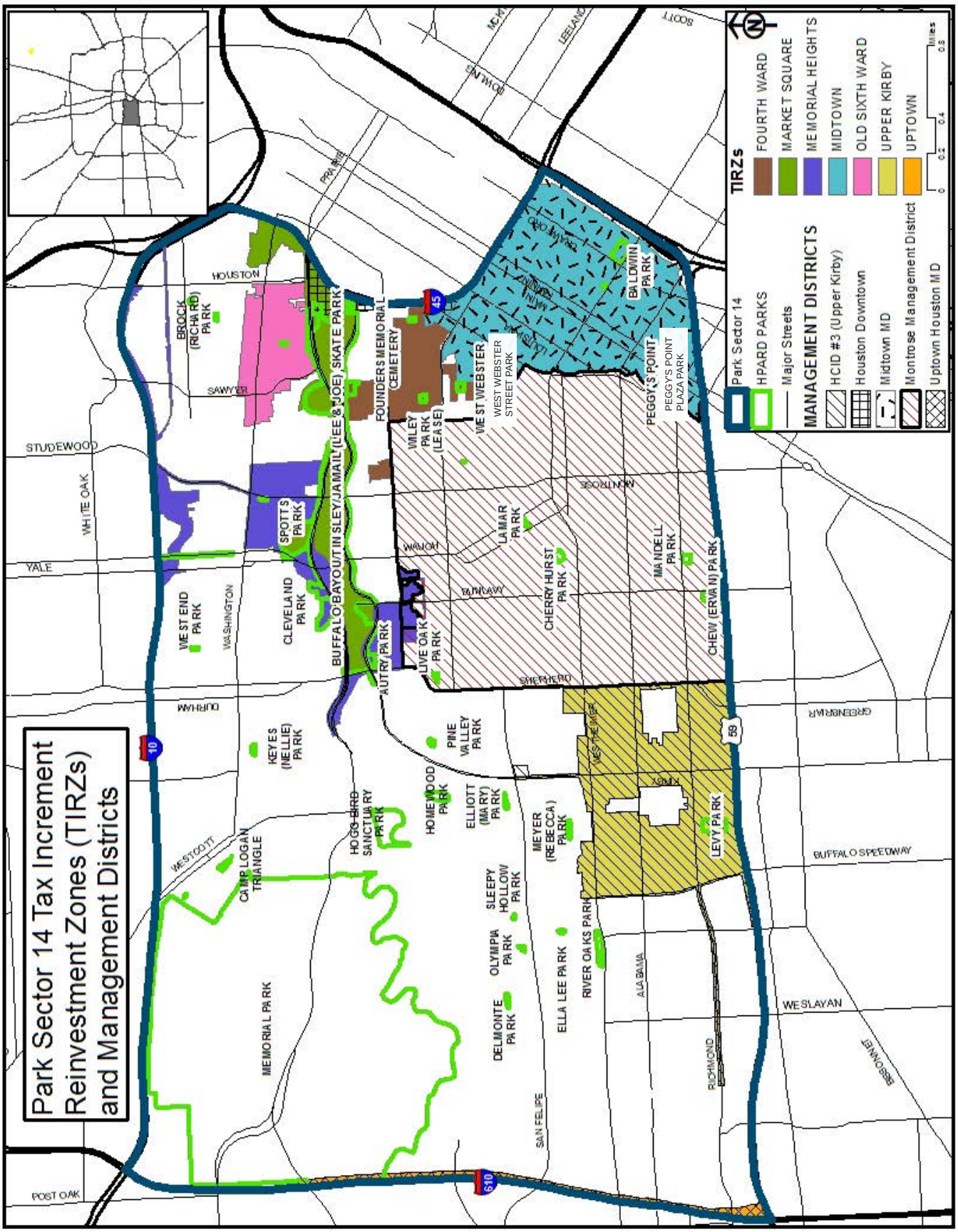


FIGURE 2: PARK SECTOR 14 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 14 Super neighborhoods

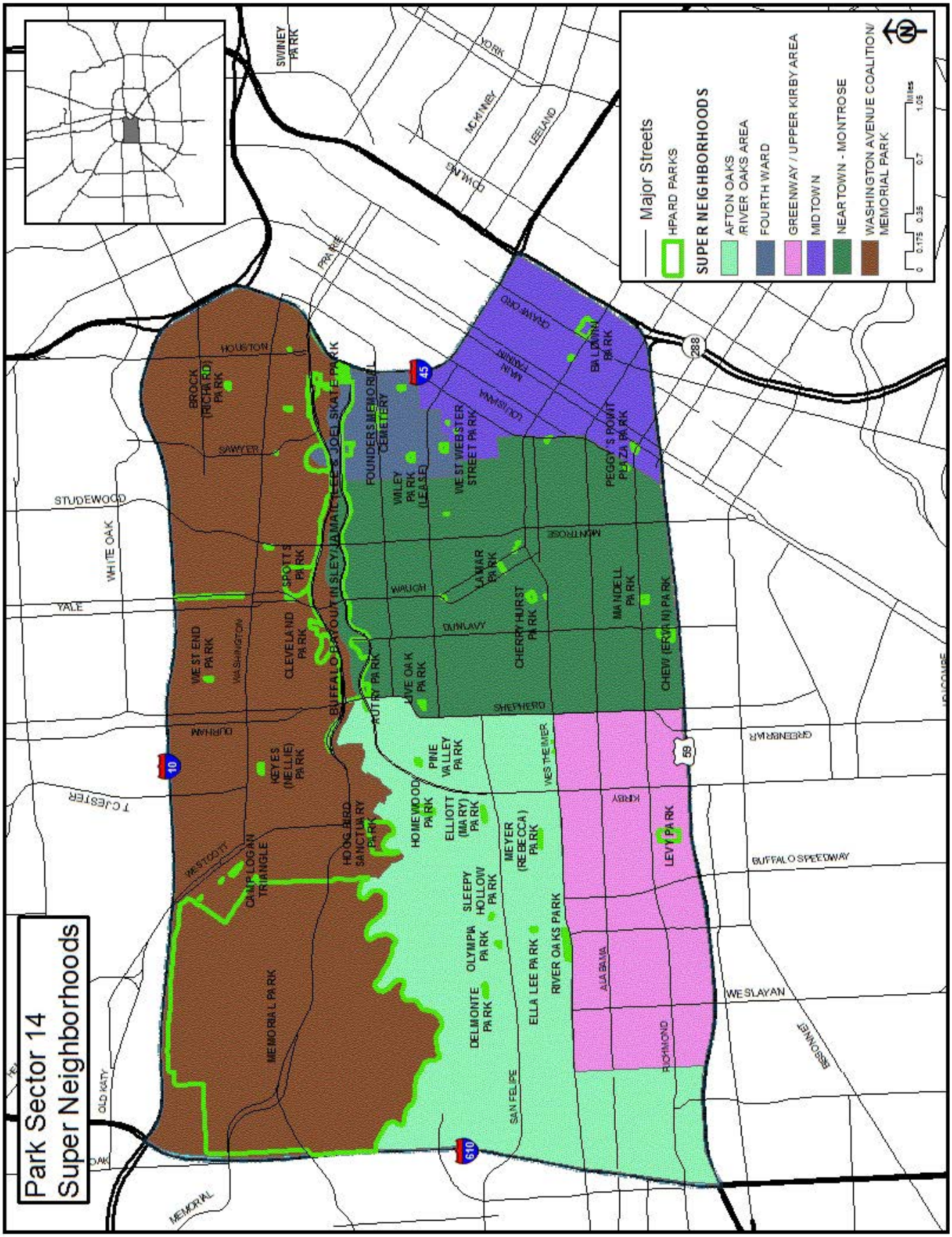


FIGURE 3: PARK SECTOR 14 SUPER NEIGHBORHOODS

Park Sector 14 Floodplain Areas

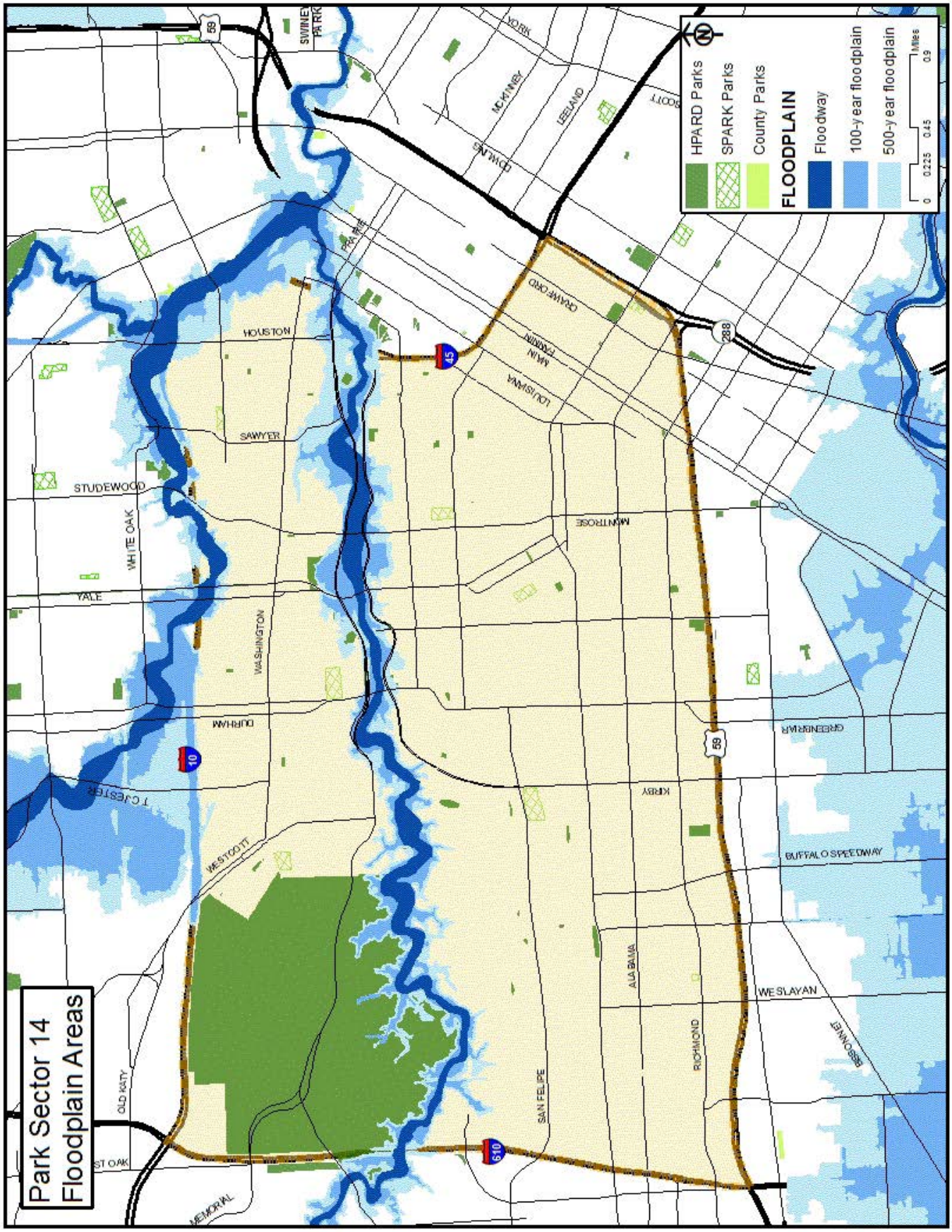


FIGURE 4: PARK SECTOR 14 FLOODPLAIN AREAS

PARK SECTOR 15

PARK SECTOR 15 SUMMARY

PARK SECTOR 15 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and data provided by the Trust for Public Land ParkScore™ Project), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Revitalize existing parks
2. Develop Neighborhood connections to parks and trails
3. Acquire new parkland
4. Develop new park facilities
5. Preserve environmentally sensitive areas
6. Develop partnerships with the school system and other entities

RECOMMENDATIONS

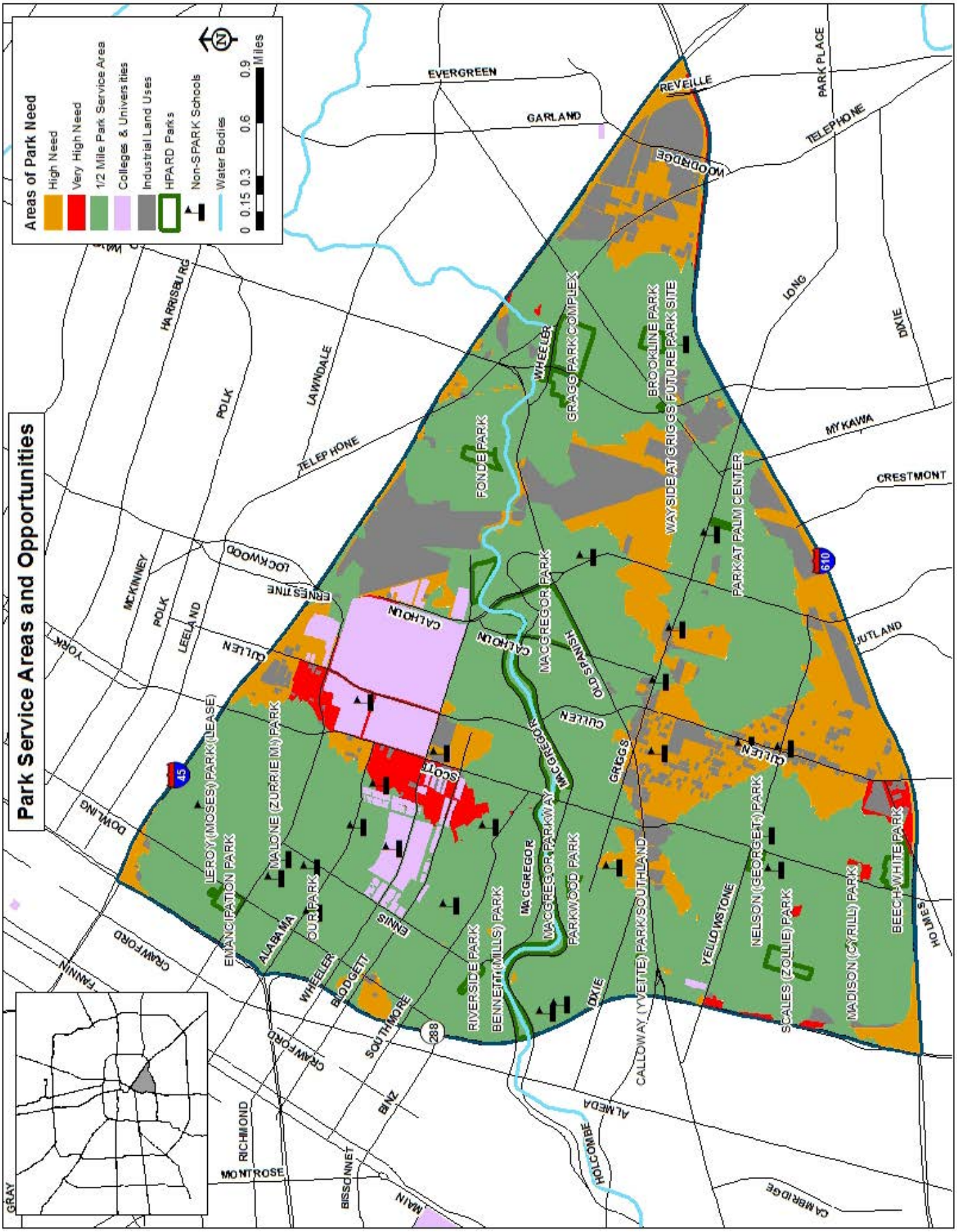
The parks in Park Sector 15 that have the highest need for redevelopment are listed from greatest need to least need: Bennett (Mills) Park, Leroy (Moses) Park, Madison (Cyrill) Park, Scales (Zollie) Park and Malone (Zurrie) Park.

Four (4) acres of parkland are needed in this Park Sector. While the majority of the Park Sector is served by parks within half a mile, there are some areas of need in the southern portions of the Park Sector. There is high need along Cullen Boulevard in the southern portion of the Park Sector and close to Telephone Road and IH-610 where there is multi-family development. Further development is expected to occur along the light rail line and in the areas closest to downtown. Schools not participating in the SPARK School Park Program (Non-SPARK schools) should be explored as potential future partnerships for park space. Over 72% of the population in this Park Sector has incomes considered to be low to moderate. Pursuing Community Development Block Grants (CDBG) for park improvements should be a priority. In addition, CDBG funding could be considered in partnership with the SPARK program for to add park space to the system and provide improvements at Non-spark Schools. There are areas of need that are primarily comprised of low-density single family housing where there is undeveloped land that could be conserved for future park use. There are few parks in the southern and eastern portions of the Park Sector and land acquisition should be pursued in these areas.

The Tax Increment Reinvestment Zones (TIRZ) and Management Districts in the area have actively engaged in acquisition, redevelopment and or maintenance of parks. This is an effort that should continue in order to keep up with the demands and needs of the area.

This area is deficient in trails, volleyball courts, dog parks, skate parks, community centers, and baseball, softball and soccer fields. In the 2014 survey, the top three priorities of residents in Park Sector 15 when asked what recreational needs existed in their Neighborhood were: hike, bike and walk trails, spraygrounds or swimming pool facility, and upgraded recreation centers. Park Sector 15 has a total of 8.6 miles of trails. It is projected that there will be a total of 19 miles of trails along Brays Bayou once Bayou Greenways 2020 (BG2020 Initiative) is completed. Other services and amenities that residents asked for in the write-in portion of the survey were: fitness programs, archery programs, swim lessons, arts and crafts programs, after school enrichment programs, dance or theater programs, summer youth enrichment programs, youth nature programs, and senior programming. Because of the health profile of this Park Sector (42.9% are obese and 15.5% are diabetic, which are higher than the city as a whole of at 30.8% and 11.4% respectively), partnerships focused on increasing physical activity levels and programming for healthy living should be explored.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Online Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector


Park Service Areas and Opportunities
Areas of Park Need
High Need
Very High Need
1/2 Mile Park Service Area
Colleges & Universities
Industrial Land Uses
HPARD Parks
Non-SPARK Schools
Water Bodies
0 0.15 0.3 0.6 0.9 Miles
EVERGREEN
GARLAND
REVEILLE
PARK PLACE
TELEPHONE
WOODRIDGE
LONG
DIXIE
MY KAWA
CRESTMONT
HARRISBURG
POLK
LAWNDALE
TELEPHONE
LOCKWOOD
ERNESTINE
MCKINNEY
POLK
LEELAND
CULLEN
YORK
CALHOUN
OUTLAND
DOWLING
CRAWFORD
FANNIN
ALABAMA
WHEELER
BLODGETT
SOUTHMORE
ENNIS
BENNETT(MILLS) PARK
RIVERSIDE PARK
MACGREGOR
MACGREGOR PARKWAY
PARKWOOD PARK
OLD SPANISH
GRIGGS
CALLOWAY (YVETTE) PARK/SOUTHLAND
YELLOWSTONE
NELSON (GEORGE T.) PARK
SCALES (ZOLLIE) PARK
MADISON (CYRILL) PARK
BEECH/WHITE PARK
HOLMES
ALMEDA
HOLCOMBE
CAMBRIDGE
MAIN
BISSONNET
MONTROSE
RICHMOND
BINZ
GRAY
LEROY (MOSES) PARK (LEASE)
EMANCIPATION PARK
MALONE (ZURRIE M.) PARK
OUR PARK
FONDE PARK
GRAGG PARK COMPLEX
WHEELER
BROOKLINE PARK
WAYSIDE AT GRIGGS FUTURE PARK SITE
PARK AT PALM CENTER
45
610
288

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Leroy (Moses) Park	3100	Trulley	0.55	N/A
Malone (Zurrie M.) Park	2901	Nettleton/Anita	0.69	N/A
Our Park	2604	Alabama	0.66	N/A
Wayside at Griggs Future Park Site	3727	Wayside Drive	0.55	N/A
	Total HPARD Pocket Park Acreage		**2.45**	
Neighborhood Parks				
Beech-White Park	7551	Scott	15.27	N/A
Bennett (Mills) Park	3000	Ennis/N MacGregor Way	1.00	N/A
Brookline Park	3300	Real	10.56	N/A
Calloway (Yvette) Park/Southland	6502	Allegheny	1.10	N/A
Emancipation Park	3018	Dowling	11.6	N/A
Fonde Park	5500	Carrolton/2500 Hansford	12.70	0.32
Madison (Cyrill) Park	7401	Tierwester	1.23	N/A
Nelson (George T.) Park	3820	Yellowstone	6.03	0.17
Park at Palm Center* (Operation & Maintenance Agreement)	5400	Griggs Road	2.17	0.22
Parkwood Park	3400	North Parkwood Drive	2.00	N/A
Riverside Park	2600	S Calumet/N Calumet	4.14	0.42
Scales (Zollie) Park	3501	Corder	14.30	0.23
	Total HPARD Neighborhood Park Acreage		**82.10**	
Community Parks				
Gragg Park Complex	2999	S Wayside	47.95	N/A
MacGregor Park	5225	Calhoun	82.79	1.44
	Total HPARD Community Park Acreage		**130.70**	
Linear Parks / Greenways				
MacGregor Parkway	2200	MacGregor	99.54	See HC Trails
	Total HPARD Corridor Park Acreage		**99.54**	
Urban Trails / Shared Use Paths				
Columbia Tap				5.81
	Total HPARD Park Acreage		**215.30**	
	Total HPARD Trail Length			**5.30**

EXISTING COMMUNITY CENTERS AND POOLS

Community Centers and Pool Facilities	Address	Zip Code	Agency Responsible
Emancipation Community Center and Pool	3018 Dowling	77004	HPARD
MacGregor Community Center and Pool	5225 Calhoun	77021	HPARD
Nelson (George T.) Park Pool	3820 Yellowstone	77021	HPARD

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger). The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Approximately 21% of the area in this Park Sector is in need of parkland accessible within a ½ mile, as compared to the 55% of the population of the City of Houston who need park access. Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains 315 acres of parkland (Harris County, HPARD & other providers). Of the 8,182 acres in this Park Sector, 4% of this acreage is parkland.
- There are approximately 60,000 residents, 60% are African-American and there is a higher percentage of youth as compared to the city as a whole.
- There is a high incidence of obesity among adults (43%) as compared to the city as a whole of (31%).
- The Park Service Area map shows high need along Cullen Boulevard in the southern portion of the Park Sector and close to Telephone Road and IH-610 where there is multi-family development.
- An additional 3.6 acres of parkland are needed in this Park Sector. This is based on the current population (2010 US Census) of the Park Sector and needs assessment done for Pocket, Neighborhood and Community parks (number of acres per 1,000 people).
- H-GAC population projections estimate that this area will add over 3,000 residents by 2040. To meet the park land needs for the estimated 2040 population an additional 1 acre of parkland will be needed.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	19	9	13	16	19	2	1	1	3	3	1	3	2	6
2015 Existing	19	9	13*	16	19	1	0	0	2	3	1	2	0	2
2015 Needed	-	-	-	-	-	1	1	1	1	-	-	1	2	4
2040 Needed	-	-	1	-	-	-	-	-	-	-	-	-	-	-

*This number includes 2.4 miles of trails currently planned along Brays Bayou under the Bayou Greenways Initiative (BG2020).

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.
2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.
3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.
4. Annual Operation & Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation per resident in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$9,000,000	3.6 Acres- $1,300,000	$20,000,000	$3,700,000
2040	$700,000	1 Acres- $300,000,000	$44,000,000	$300,000
TOTAL 2040	$9,700,000	4.6 Acres- $1,600,000	$64,000,000	$4,000,000

PARK SECTOR PROFILE 15

LOCATION AND POLITICAL BOUNDARIES

Park Sector 15 is located inside the 610 loop, east of SH 288, and southwest of 45.
Park Sector Size: 8,182 acres or 12.8 square miles
Population: 60,135 people, Density: 4,698 persons/sq. mi.
Political Boundaries within Park Sector 15:

- Council Districts: D and I
- Super neighborhoods contained in this Park Sector: Greater Third Ward, MacGregor, OST/South Union, Gulfgate Riverview/ Pine Valley
- TIRZ: OST/Almeda, Gulfgate
- Management Districts: Greater Southeast and Greater East End

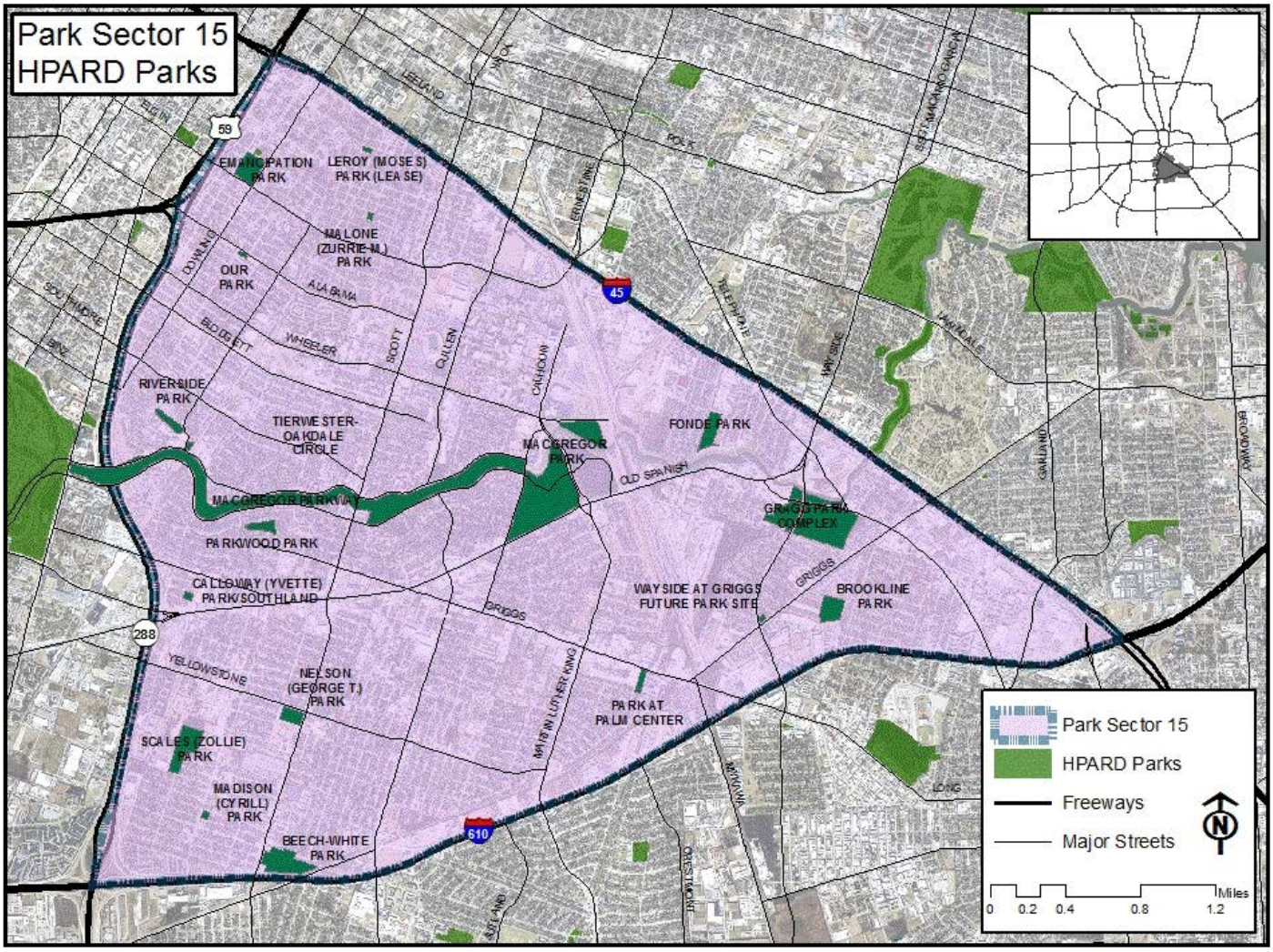


FIGURE 1. PARK SECTOR 15 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 15 Population	Park Sector 15 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**60,135**	-	**2,119,831**	-
Hispanic or Latino	17,477	29.1%	919,668	43.8%
Non-Hispanic White	4,088	6.8%	537,901	25.6%
Non-Hispanic Black	36,275	60.3%	485,956	23.1%
Non-Hispanic American-Indian	101	0.2%	126,098	6.1%
Non-Hispanic Asian	1,481	2.5%		
Non-Hispanic Hawaiian or Pacific Islander	17	0.0%		
Non-Hispanic Some Other Race	696	1.2%	26,828	1.3%

TABLE 1. PARK SECTOR 15 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains 3% of the population of Houston. The majority (60.3%) of residents are Non-Hispanic Blacks, followed by Hispanic/Latinos (29.1%), Non-Hispanic Whites (6.8%), and Non-Hispanic Asians (2.5%). The majority of the population lives along the freeways that comprise the boundaries of the Park Sector. The most dense areas in the Park Sector are the areas north of IH-610, while the farther north areas closer to IH-45 and Highway 288 in the Third Ward area less densely populated.

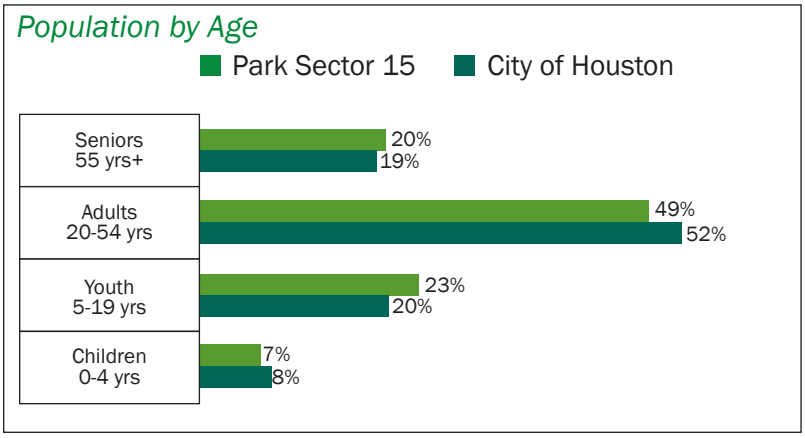


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 15 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that the percent of population under 19 is slightly higher (30%) than that of the rest of the city (28%). Further breakdown of the age groups, as shown in Figure 2., reveals that the percent of youth 5-19 years (23%) is slightly higher than the rest of the City of Houston (20%).

However, the distribution of age groups in this Park Sector generally mirrors the same pattern as the entire City of Houston. These demographic trends can assist with future programming and park improvements.

Program Group	Age Groups	PS 15 Population	PS 15 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	4,167	7%	7%	166,066	8%	8%
Youth	5-9 yrs	3,895	6%	23%	148,843	7%	21%
	10-14 yrs	3,586	6%		135,622	7%	
	15-19 yrs	6,552	11%		140,673	7%	
Adults	20-34 yrs	16,235	27%	49%	539,348	26%	52%
	35-44 yrs	6,545	11%		286,117	14%	
	45-54 yrs	7,172	12%		265,060	13%	
Senior	55-64 yrs	5,703	9%	20%	204,852	10%	19%
	65 yrs +	6,675	11%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 15 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 25,262 housing units in this Park Sector. The percent of vacant housing in Park Sector 15 (17.5%) is much higher than the vacancy rates for the entire city (12.3%). Home ownership for this Park Sector (32.2%) is lower than that of the City of Houston (39.7%) and the share of renters (50.1%) is higher than the city's as a whole (47.1%).

Income

The median household income for this Park Sector ($23,445) is significantly lower than that of the City of Houston ($48,322). Seventy-eight (78%) or 16,324 of the households in this area have an income below the Houston median household income. According to the City of Houston Housing and Community Development data (low mod derived from 2000 Census as per federal regulations) 72.2% of the population is low or moderate income; therefore, this area may qualify for CDBG funding.

Educational Attainment

Within Park Sector 15 the percent (19%) of individuals 25+ years of age with a Bachelor's degree or above is much lower than the relative percent for the entire City of Houston (28%). Conversely, the percentage of those within this Park Sector a high school degree (29%) is higher than the same population for the City of Houston (23%). The percent of individuals with a 9-12th grade education for Park Sector 15 (18%) is also higher than that of the entire city (11%).

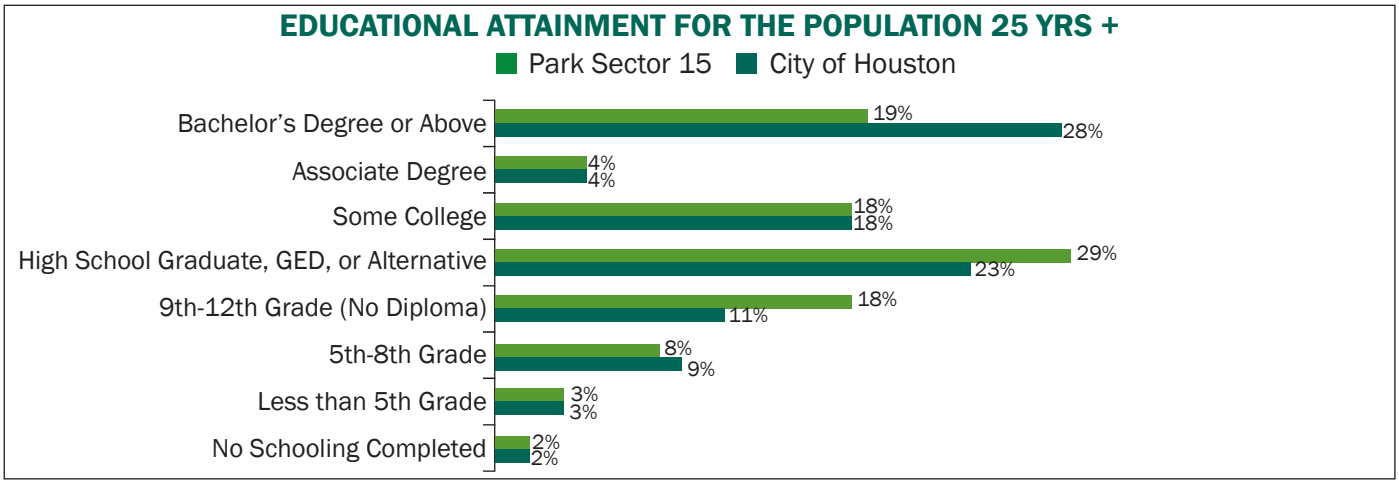


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 42.9% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that 15.5% of the adult population received a diagnosis of diabetes by a professional, which is above the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that 33.9% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is higher than that of the entire city (32%). The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%.

Finally, the survey shows that 22% of the population does not engage in moderate physical activity at all, which is about the same as the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

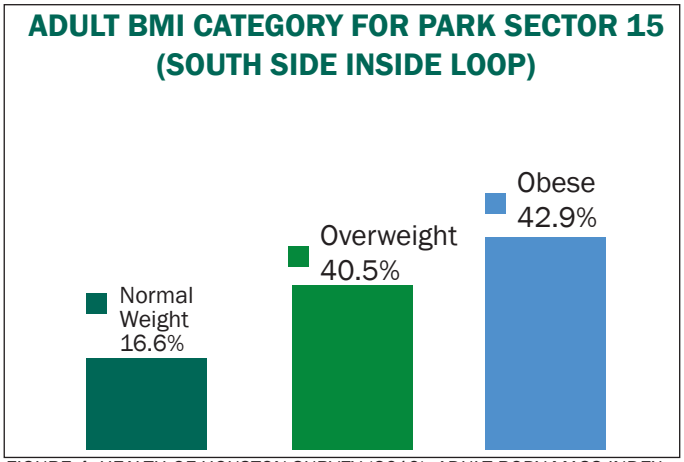


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	22.00
1	3.20
2	13.90
3	14.00
4	13.00
5	7.40
6	0.00
7	26.50

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	13,438	66.2%	2,165	39.9%
Multi-Family	538	2.6%	331	6.1%
Commercial	884	4.3%	540	10%
Office	42	0.002%	41	0.7%
Industrial	528	2.6%	624	11.5%
Public & Institutional	1,113	5.5%	838	15.4%
Transportation	381	1.9%	138	2.5%
Parks & Open Space	61	0.3%	33	0.6%
Undeveloped	3,276	16.1%	714	13.1%
Agriculture Production	8	0.0%	2	0.0%
TOTAL	20,304	100%	5,426	100%

TABLE 4. LAND USE BY DESCRIPTION (2013 HCAD)

While having significant residential acreage (40% single-family and 6% multi-family), there is also a significant amount (15%) of acreage in Park Sector 15 that is comprised of public and institutional uses. This is due to the presence of the University of Houston campus and all supporting facilities south of I-45 roughly between Scott and Calhoun. In addition, the Texas Southern University Main Campus is also in this Park Sector. The third largest land use is shown on HCAD as undeveloped; it appears that there are several properties among the single family areas that are undeveloped. Furthermore, large undeveloped tracts, running in a southeasterly direction along the railroad and a utility easement south of Brays Bayou, may need to be explored, but some of these areas appear to be either rail yards or industrial.

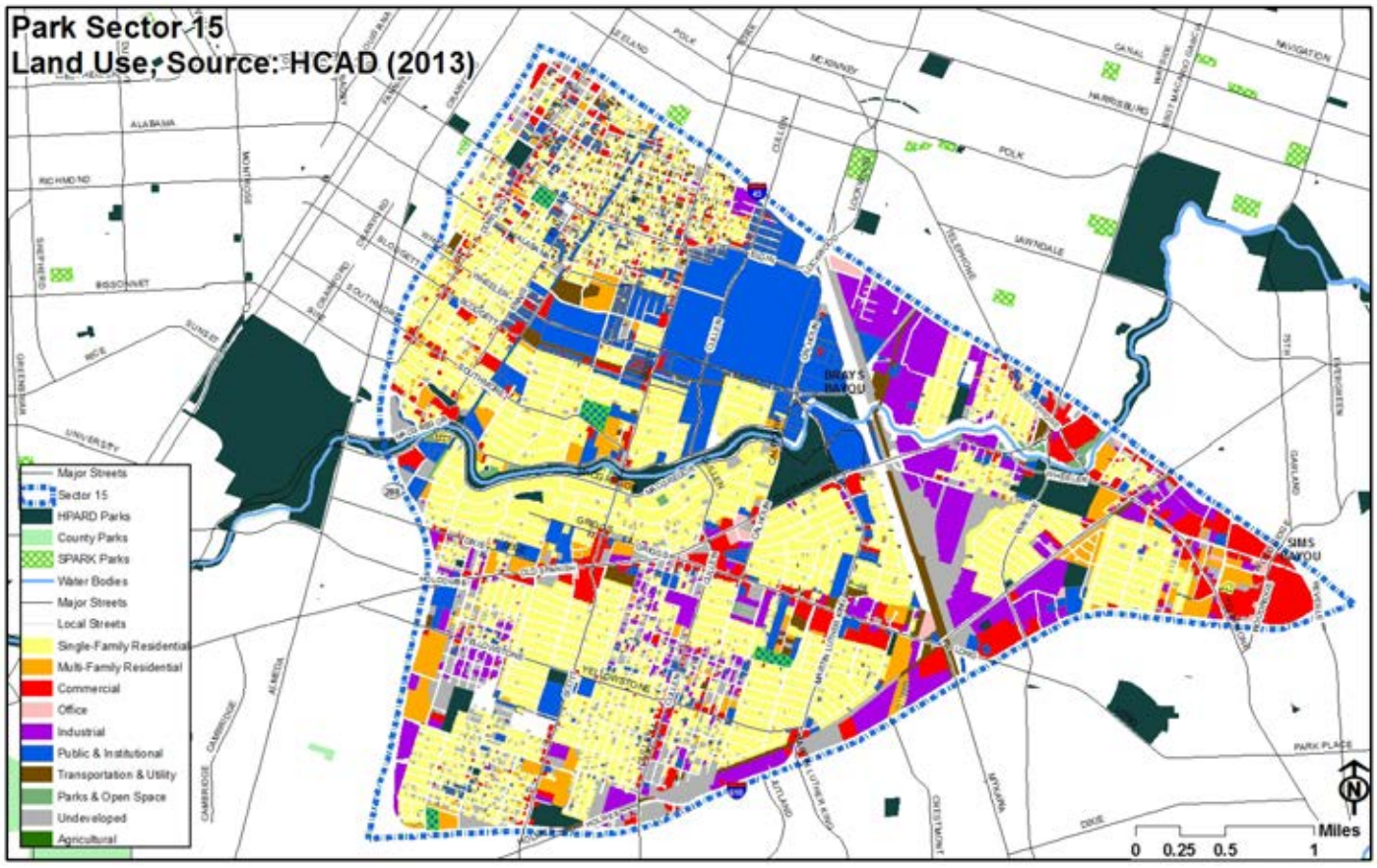


FIGURE 5. PARK SECTOR 15 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

HPARD operates 20 parks in the area accounting for 314.8 acres of parkland. For the Park at Palm Center, HPARD has a maintenance agreement with the Greater Southeast Management District to maintain the park.

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Leroy (Moses) Park	3100	Trulley	0.55	N/A
Malone (Zurrie M.) Park	2901	Nettleton/Anita	0.69	N/A
Our Park	2604	Alabama	0.66	N/A
Wayside at Griggs Future Park Site	3727	Wayside Drive	0.55	N/A
Total HPARD Pocket Park Acreage			**2.45**	
Neighborhood Parks				
Beech-White Park	7551	Scott	15.27	N/A
Bennett (Mills) Park	3000	Ennis/N MacGregor Way	1.00	N/A
Brookline Park	3300	Real	10.56	N/A
Calloway (Yvette) Park/Southland	6502	Allegheny	1.10	N/A
Emancipation Park	3018	Dowling	11.6	N/A
Fonde Park	5500	Carrolton/2500 Hansford	12.70	0.32
Madison (Cyrill) Park	7401	Tierwester	1.23	N/A
Nelson (George T.) Park	3820	Yellowstone	6.03	0.17
Park at Palm Center* (Maintenance Agreement)	5400	Griggs Road	2.17	0.22
Parkwood Park	3400	North Parkwood Drive	2.00	N/A
Riverside Park	2600	S Calumet/N Calumet	4.14	0.42
Scales (Zollie) Park	3501	Corder	14.30	0.23
Total HPARD Neighborhood Park Acreage			**82.10**	
Community Parks				
Gragg Park Complex	2999	S Wayside	47.95	N/A
MacGregor Park	5225	Calhoun	82.79	1.44
Total HPARD Community Park Acreage			**130.7**	
Corridor/Linear Parks and Greenways				
MacGregor Parkway	2200	MacGregor	99.54	See HC Trails
Total HPARD Linear Park Acreage			**99.54**	
Urban Trails / Shared Use Paths				
Columbia Tap Trail				2.70
Total HPARD Park Acreage			**314.8**	
Total HPARD Trail Length				**5.3**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 15

HPARD maintains 2.8 miles of trails internal to parks and along Brays Bayou (0.33 miles of trail along Brays Bayou inside of MacGregor Park). HPARD maintains MacGregor Parkway greenspace; however, Harris County Precinct Three maintains the trail along Brays Bayou in this area. There are also two SPARK Parks in the area that offer access to 0.34 miles trails in their facilities. The total miles of trails for this Park Sector are 11.11 miles. Through the Bayou Greenways Initiative (BG2020) there are plans to build 9.1 miles of trail within this Park Sector along Brays Bayou. It is projected that there will be a total of 20 miles of trails along Brays Bayou once BG2020 is completed.

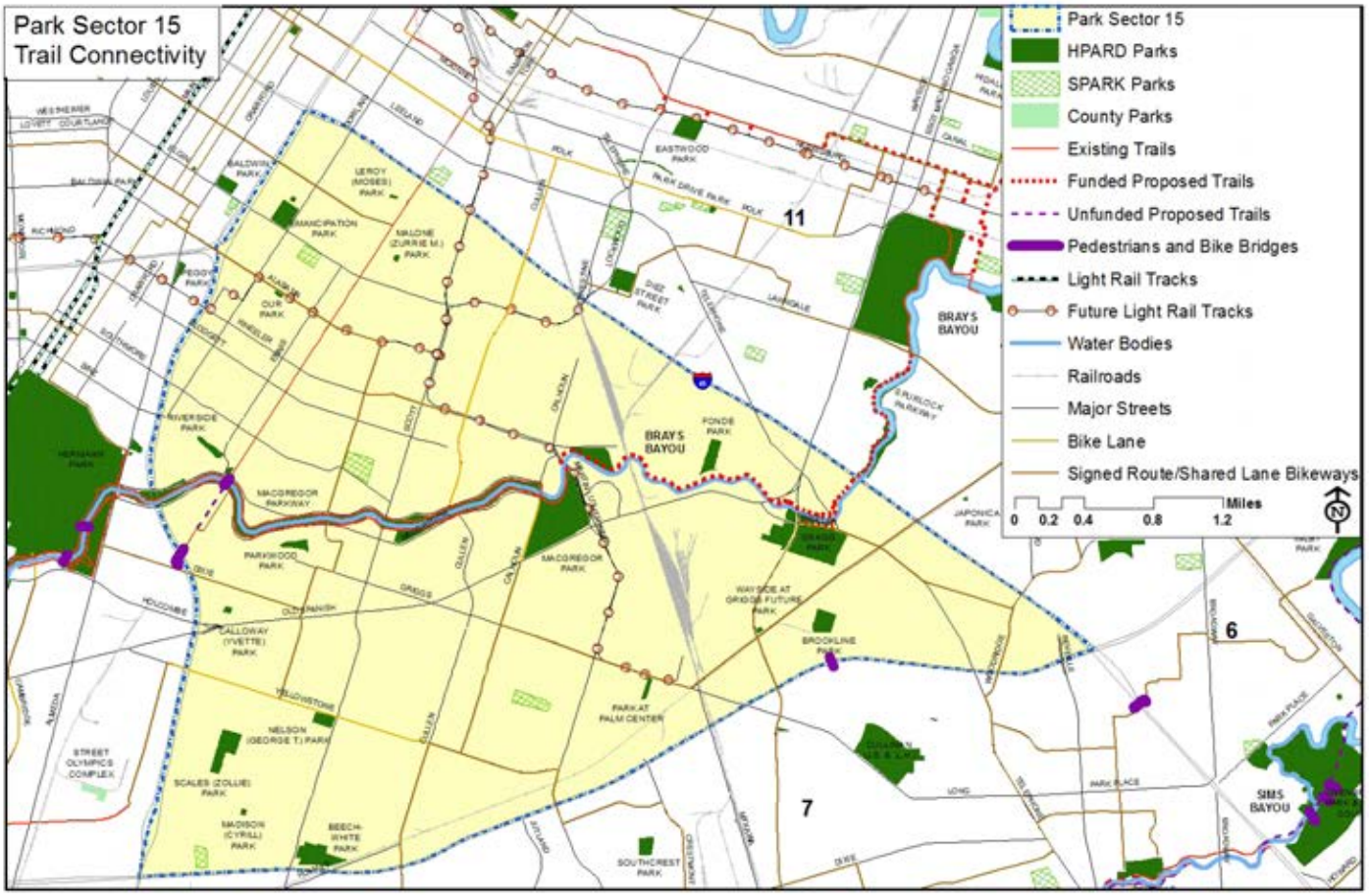


FIGURE 6. PARK SECTOR 15 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

County Parks and Trails

County Park				
Facility Name	**Address**	**Street**	**Total Acres**	**Trail Length**
Brays Bayou Hike & Bike Trail	9601	Braes Bayou Drive	See HPARD Parks	5.47
		Total HC Trail Length		**5.47**

TABLE 6. TRAILS INTERNAL TO COUNTY PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 15

SPARK Parks

There are three Elementary Schools and one Middle School participating in the SPARK Program providing access to park space and a variety of amenities to the public.

SPARK Parks				
Facility Name	**Address**	**Street**	**Total Acres***	**Amenities**
Hartsfield Elementary School	5001	Perry	8.76	Playground
Lockhart Elementary School	3501	Southmore Blvd	12.08	Playground
Ryan Middle School	2601	Elgin	6.28	0.15 mi Trail, 2 Basketball Courts
Whidby Elementary School	7625	Springhill St	5.06	Playground, 0.19 Trail, Basketball Pavilion, Multi-Purpose Field
Total Acres*			**32.18**	

TABLE 7. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 15 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

Open and Green Space

To determine level of service the 2007 Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by The Trust for Public Land ParkScore™ Project. The table below shows the level of service (LOS) based on the 2007 HPARD recommended standards of a number of acres per 1,000 people using the 2010 Census population. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 0.1 acres/1,000 people for a Pocket Park, this Park Sector needs 3.56 acres of parkland. This Park Sector also meets the standard of 1 acre/1,000 people for a Neighborhood Park. Finally, this Park Sector meets the standard for a Community Park of 1.5 acres/1,000 people. At this time, 3.56 acres of parkland are needed. Given the proximity of this Park Sector to the downtown area, there is a distinct possibility this Park Sector will redevelop in years to come and will densify; thus, necessitating a need for more parkland than currently indicated by the LOS. Acquisition of land should be considered in this Park Sector in areas that are not currently served by a park or trail. MacGregor Parkway acreage is accounted for in the Community Park section on Table 7 because of its size, however, this park does not have the typical development of a Community Park but rather that of a linear or corridor park. With the BG2020 efforts to build out bayou greenways throughout the city, the greenway and trail system should be considered more as linear, Regional Parks that will eventually traverse the majority of the city and serve various areas and populations. The acreage for Regional Parks is accounted for in the city-wide analysis. The analysis for level of service and needs is shown in Table 8.

Another way to measure the level of service provided by parks is by looking at a "walkable" distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ Project study mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project. The areas in green on the map below represent the area within ½ mile of existing parks not blocked by freeways or major roads. Roughly 21% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, which is dramatically lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector. However, the percent served is actually lower when the acreage of the University of Houston and Texas Southern University are taken out of the areas of need.

Park Type	HPARD Park Number	HC Park Number	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
								Population		60,135	
Pocket Park (<1 acre)	4	0	2.45	0	0	2.45	0.1 ac/1,000 people	0.05	0.05	3.56	3.56
Neighborhood Park (1-15 acres)	12	0	82.1	0	0	82.1	1 ac/1,000 people	1.37	1.37	-21.97	-21.97
Community Park (16-150 acres)	3	0	230.28	0	0	230.3	1.5 ac/1,000 people	3.83	3.83	-140.08	-140.08
TOTAL	20	0	314.8	0	0	314.8				3.56	3.56

TABLE 8. HPARD LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

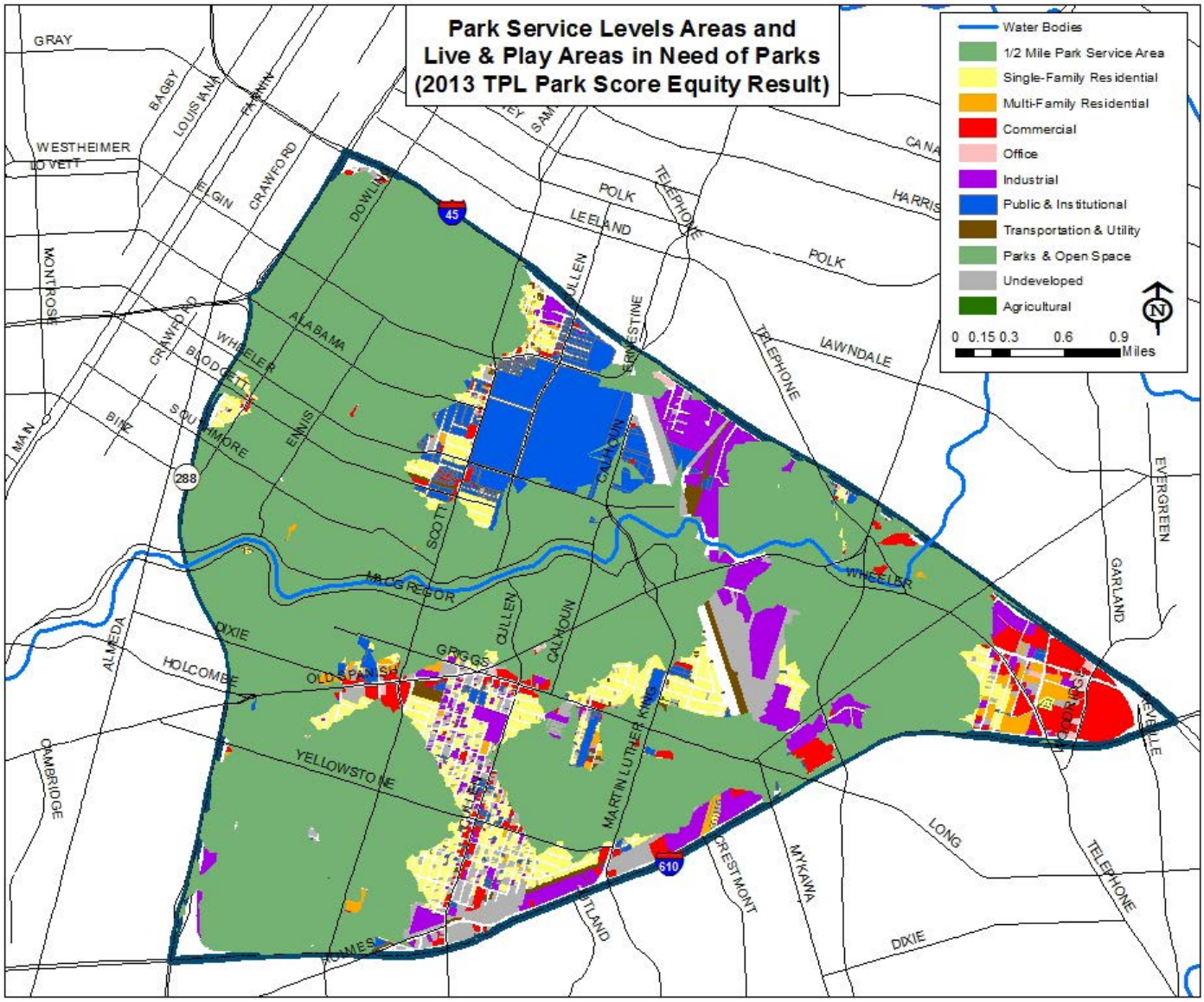


FIGURE 7. PARK SECTOR 15 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

AMENITIES AND SERVICES

This map shows some of the community services available in this area: community centers, multi-service and health centers, transit centers, schools, libraries, YMCAs, and Boys and Girls Clubs. There are two community centers located in Park Sector 15: Emancipation and MacGregor Community Centers.

Project Row House and Row House CDC are sister non-profit organizations that seek to develop housing for low-to-moderate income residents, public spaces, and facilities to preserve and protect the historic character of the Third Ward. This organization builds and preserves shotgun houses in the Third Ward and rents them to qualified individuals or families. They also have a young mother's program that assists women with affordable housing while pursuing higher education. The non-profits also have an after-school arts program for children on a sliding-scale fee schedule.

The Third Ward Multi-Service Center is also located in this Park Sector. Some of the services offered are: guardianship legal advocacy, a community garden, referrals for services and benefits, Houston Food Bank senior program, senior services, and a resource center equipped with computers and printers. Workshop Houston is a non-profit organization located close to the Multi-Service Center and provides youth programs for kids in both middle and high school to provide youth with creative, technical, and educational resources. The non-profit organization Change Happens! is also located in this Park Sector. Its programs and services include: youth programs, HIV prevention program, case management for youth criminal offenders, homeless assistance program and case management, and case management for pregnant women and their families. The libraries in this Park Sector provide computer access, community meeting space, and educational programs.

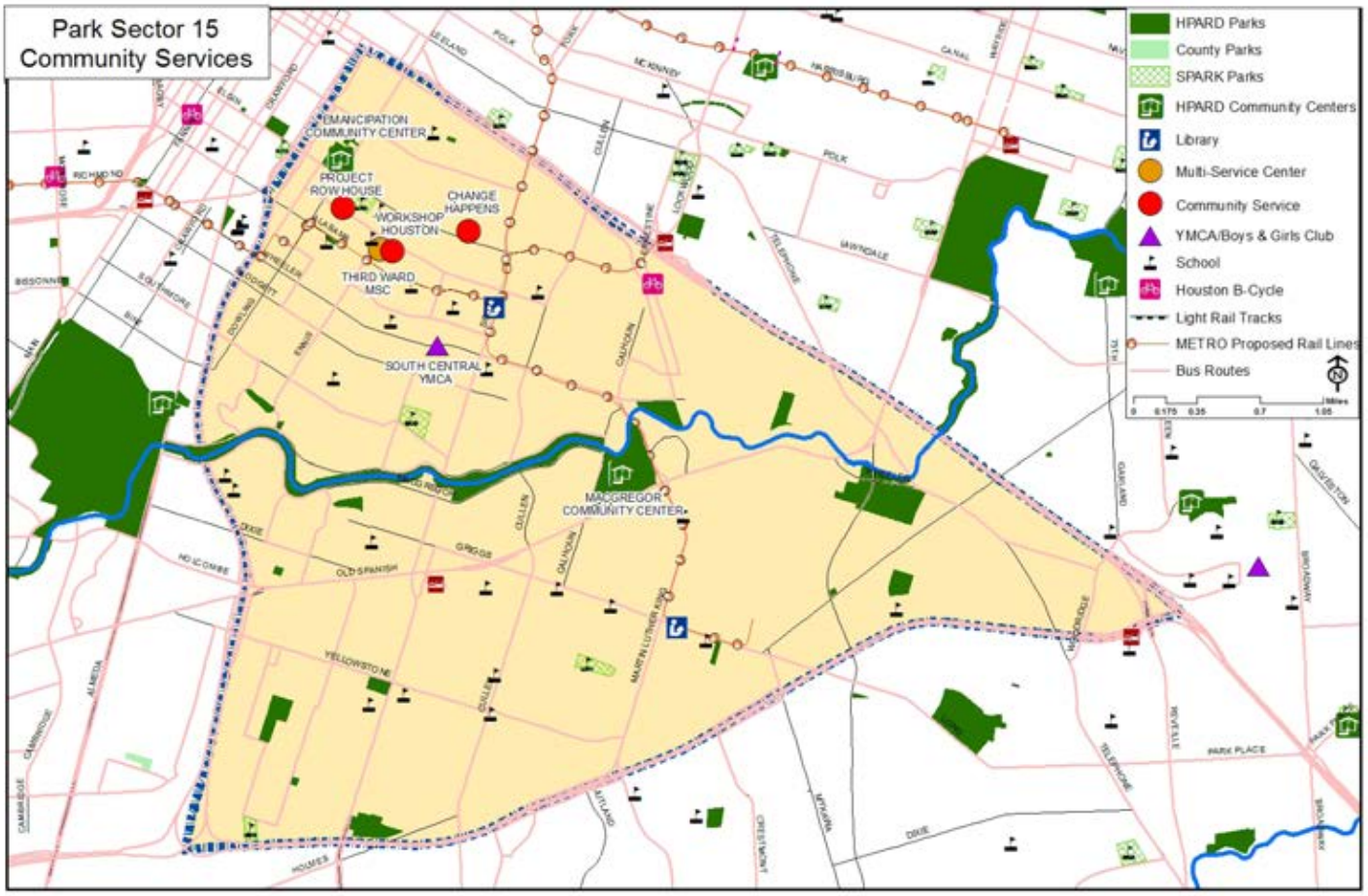


FIGURE 8. PARK SECTOR 15 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities - Level of Service

The 2007 HPARD standards by amenity have been applied to the amenities in Park Sector 15. The standard for each amenity is then compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these recommended HPARD standards, Harris County and other providers are meeting the needs of the residents for playgrounds, picnic shelters, outdoor basketball courts, swimming pools, and outdoor spraygrounds. This Park Sector is deficient in trails (1 mile), volleyball courts (1), community centers (1), dog parks (1), skate parks (1), baseball fields (1), softball fields (2), and soccer fields (4).

	HPARD	Harris County	Other Providers	Total	Recommended HPARD Standard		Current HPARD Level of Service		Current Total Inventory Level of Service		HPARD NEEDS Over/ Under Service	Total Inventory NEEDS Over/ Under Standard
							Population		60,135			
Playgrounds	16	0	3	19	1	4,000	1	3,758	1	3,165	-1	-4
Picnic Shelters	9	0	0	9	1	10,000	1	6,682	1	6,682	-3	-3
Trails	5.3	5.47	0.34	11.11	0.2	1,000	0.09	1,000	0.18	1,000	7	1
Outdoor Basketball Courts	13	0	3	16	1	12,000	1	4,626	1	3,758	-8	-11
Tennis	19	0	0	19	1	10,000	1	3,165	1	3,165	-13	-13
Volleyball	1	0	0	1	1	50,000	1	60,135	1	60,135	1	1
Dog Parks	0	0	0	0	1	100,000	0	60,135	0	60,135	1	1
Skate Parks	0	0	0	0	1	100,000	0	60,135	0	60,135	1	1
Community Centers	2	0	0	2	1	30,000	1	30,068	1	30,068	1	1
Swimming Pools	3	0	0	3	1	50,000	1	20,045	1	20,045	-2	-2
Outdoor Spraygrounds	1	0	0	1	1	100,000	1	60,135	1	60,135	0	0
Baseball (Lit & Unlit)	2	0	0	2	1 field	30,000	1	30,068	1	30,068	1	1
Softball (Lit & Unlit)	0	0	0	0	1 field	30,000	0	60,135	0	60,135	2	2
Soccer (Lit & Unlit)	2	0	0	2	1 field	10,000	1	30,068	1	30,068	4	4

TABLE 9. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 15
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- Emancipation Park received $3 million for renovations that will include: a community center remodel, new recreation center, new pool, pool building remodel, new pool, site development, including water playground, plazas, ball fields, a playground, landscaping and irrigation. The work will be finished in summer 2015.
- Gragg Park Complex is scheduled to receive CIP funds in FY2015 to redevelop the property in accordance with its Master Plan.
- In March 2014, an upgraded playground and fall surface material were installed in Malone Park.
- In 2013 Park at Palm Center completed renovations in partnership with the Old Spanish Trail/Almeda Corridors Tax Increment Reinvestment Zone (TIRZ #7). Scope of the project included renovations to the existing park and garden improvements on the undeveloped section of land.

SUPPLEMENTAL MAPS:

Park Sector 15 Council Districts

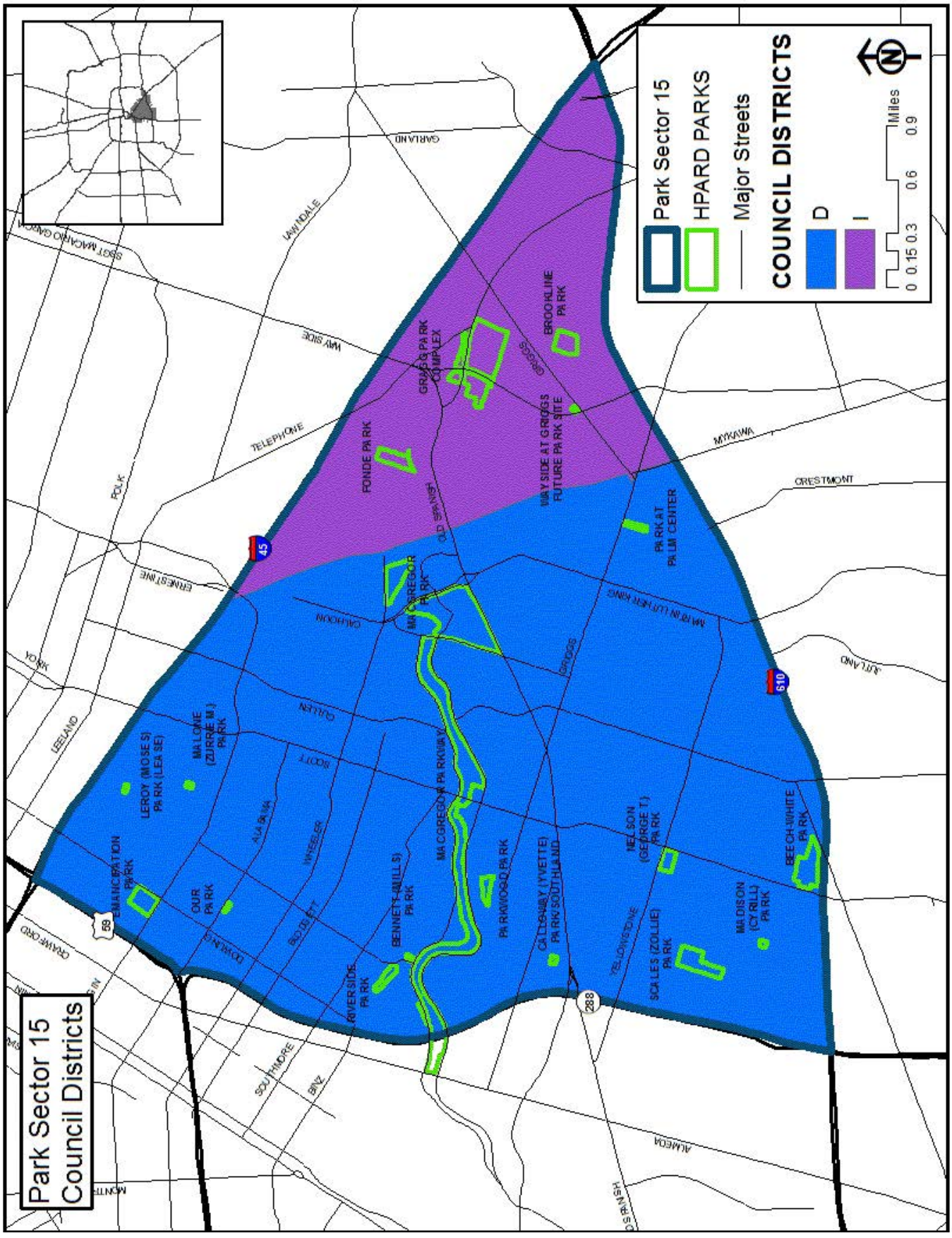


FIGURE 1: PARK SECTOR 15 COUNCIL DISTRICTS

Park Sector 15 Tax Increment Reinvestment Zone (TIRZs) and Management Districts

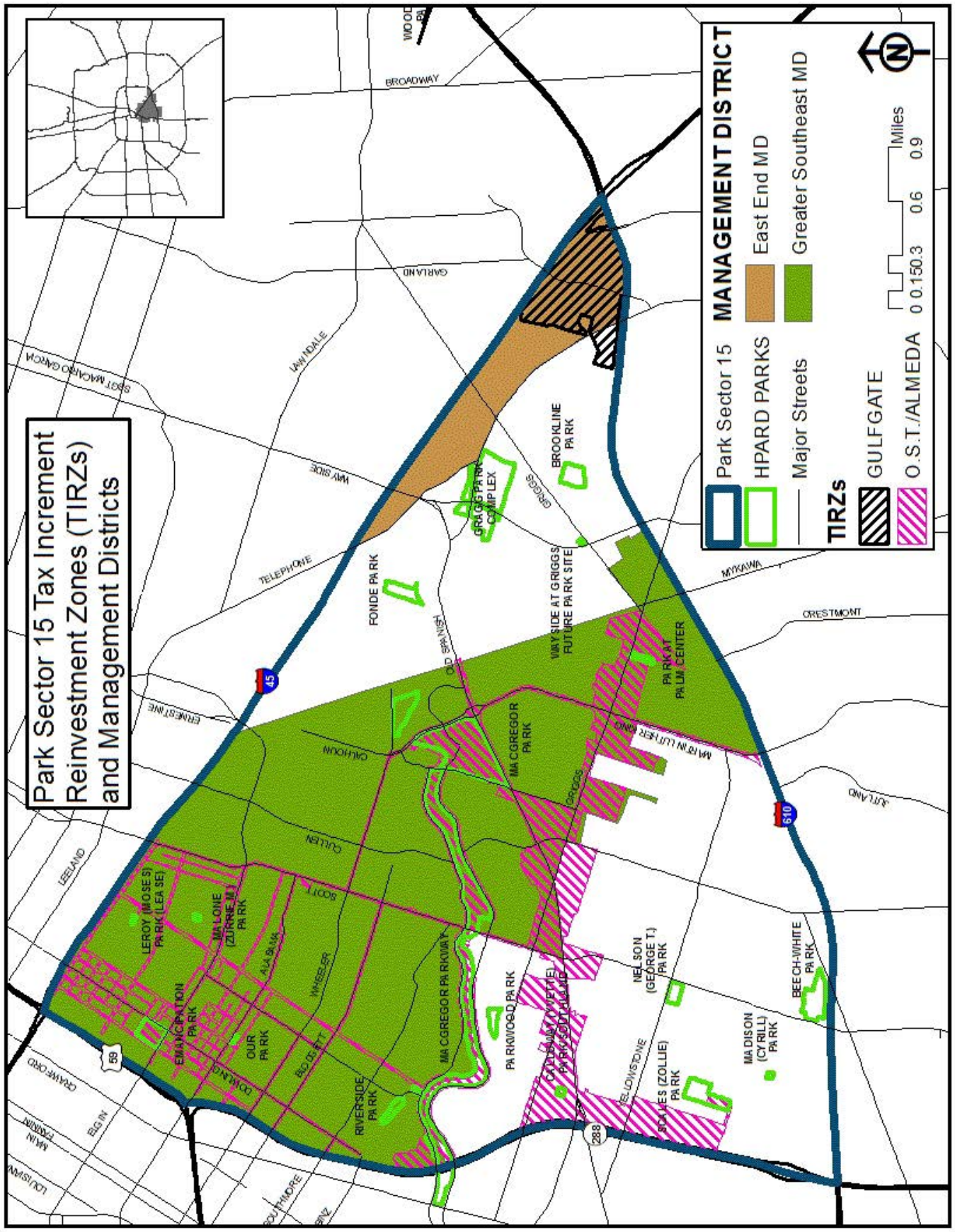


FIGURE 2: PARK SECTOR 15 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 15 Super neighborhoods

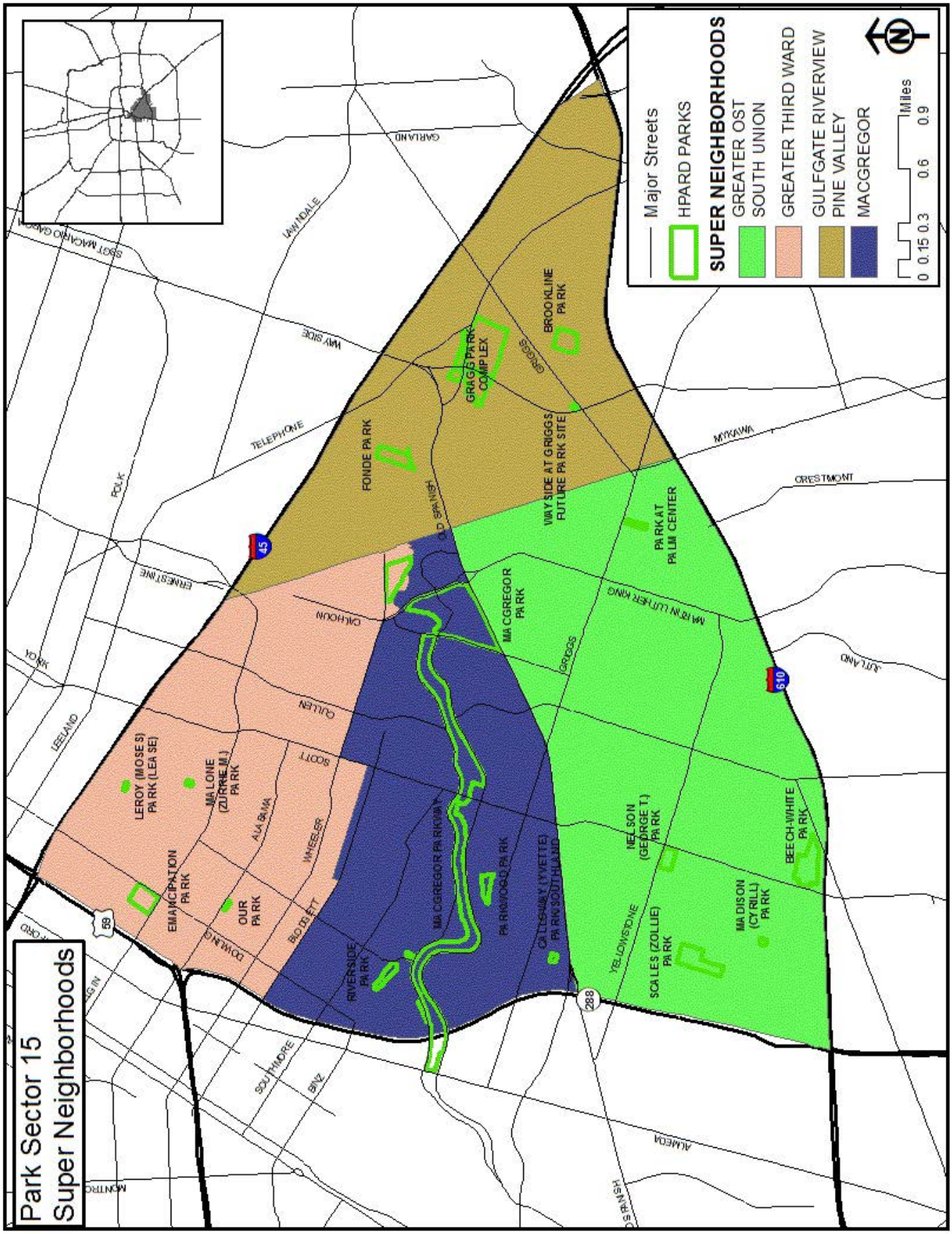


FIGURE 3: PARK SECTOR 15 SUPER NEIGHBORHOODS

Park Sector 15 Floodplain Areas

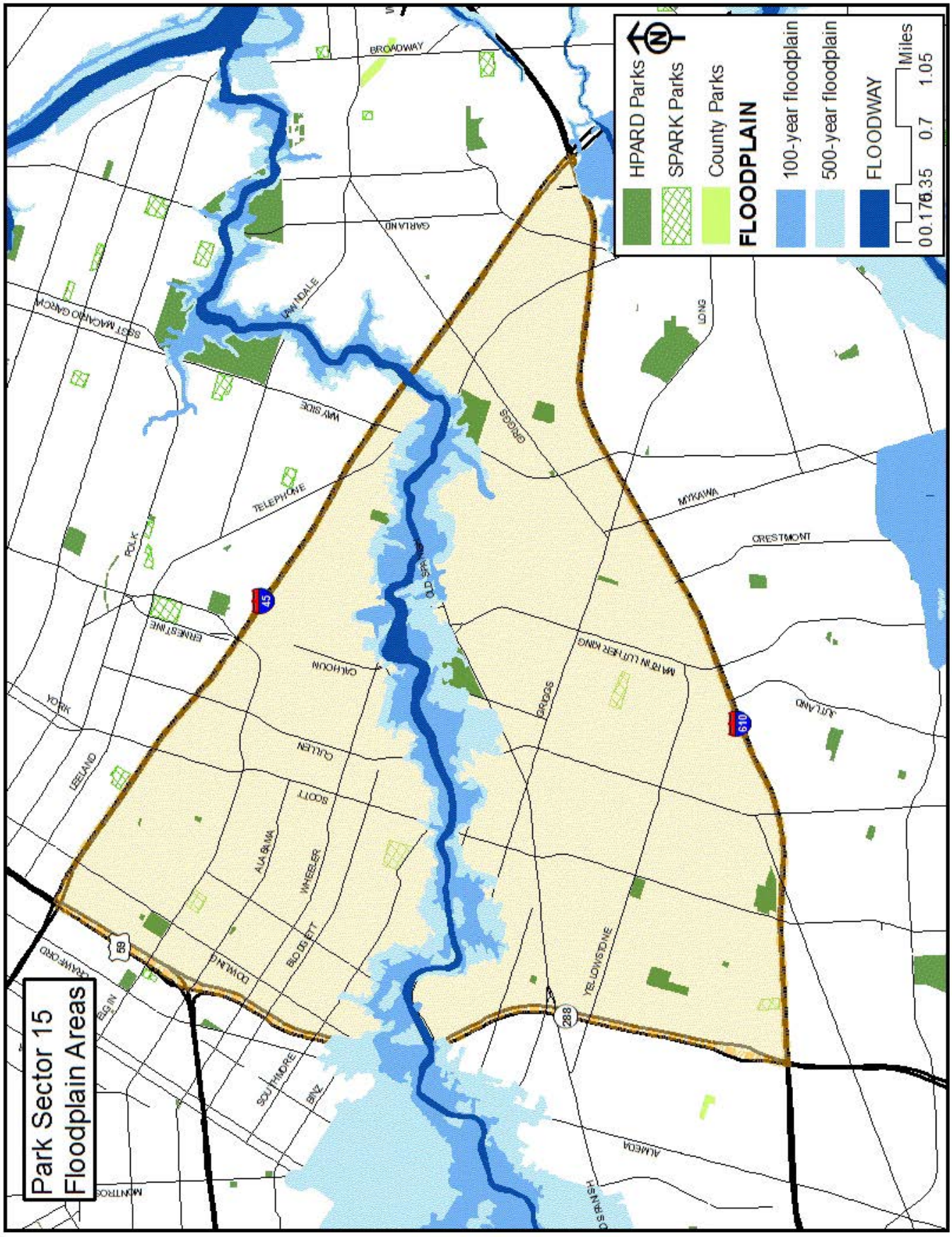


FIGURE 4: PARK SECTOR 15 FLOODPLAIN AREAS

PARK SECTOR 16

PARK SECTOR 16 SUMMARY

PARK SECTOR 16 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and data provided by the Trust for Public Land ParkScore™ Project), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

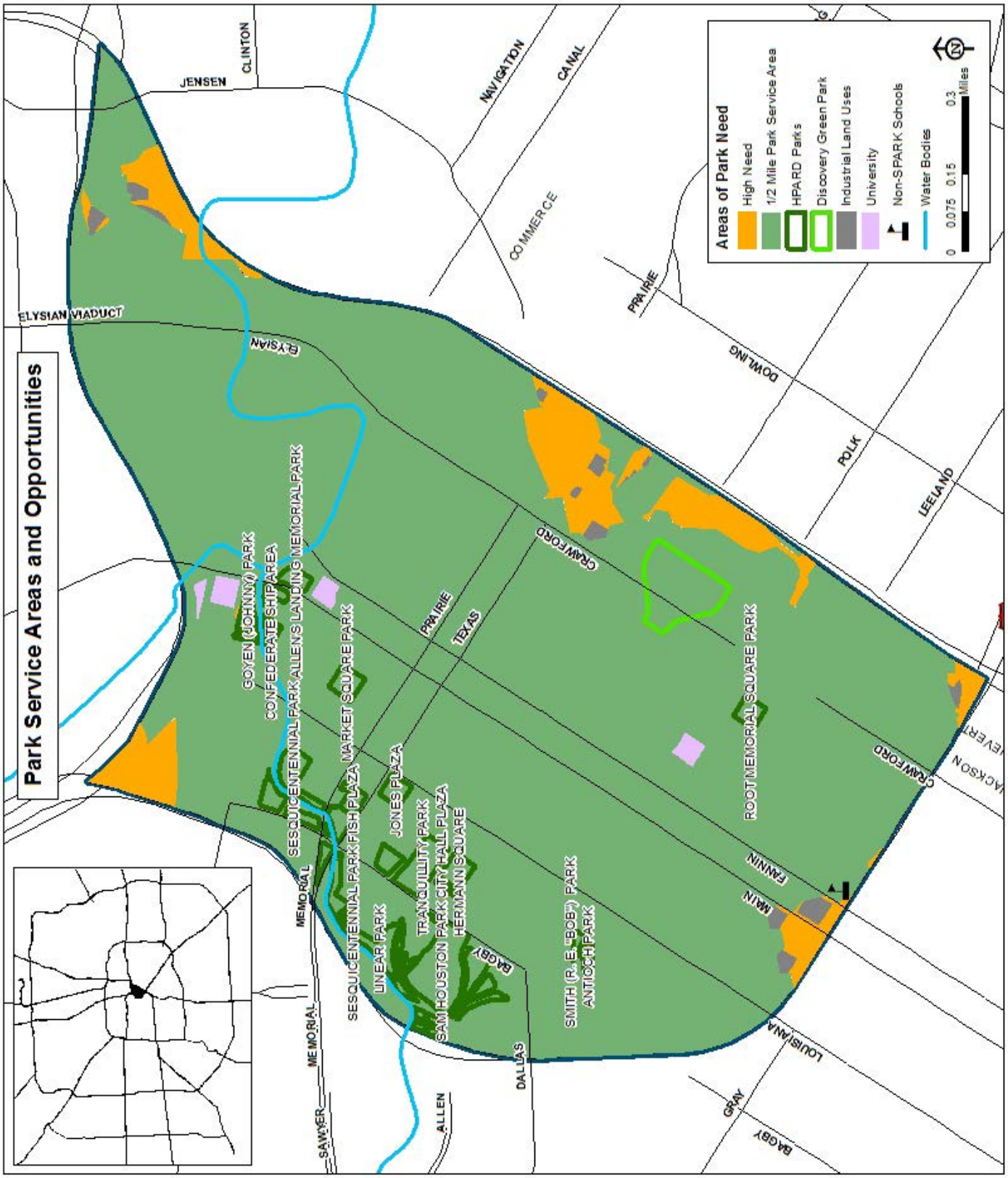
1. Develop Neighborhood connections to parks and trails
2. Revitalize existing parks
3. Acquire new parkland
4. Develop partnerships with the school system and other entities
5. Preserve environmentally sensitive areas
6. Develop new park facilities

RECOMMENDATIONS

One (1) acre of parkland is needed in this Park Sector. While the majority of the Park Sector is served by parks within half a mile, there are some areas of need in the eastern portions of the Park Sector. Furthermore, residential multi-family development is increasing in the downtown area. There are few parks in the southern and eastern portions of the Park Sector and land acquisition should be pursued in these areas. Schools not participating in the SPARK School Park Program (Non-SPARK schools) should be explored as potential future partnerships for park space.

This Park Sector is deficient in tennis courts, volleyball courts, skate parks, community centers, swimming pools, and baseball, softball and soccer fields. While there is no skate park in Park Sector 16, there is the Lee & Joe Jamail Skatepark in neighboring Park Sector 14 that is a world-class, in-ground skate park that serves the entire City. In the 2014 survey, the top three priorities of residents in Park Sector 16 when asked what recreational needs existed in their Neighborhood were: hike, bike and walk trails, open space and natural areas, and upgraded recreation centers. In addition to the existing 3.2 miles of trails, there is a proposed 1.3 mile shared use path along Buffalo Bayou planned by the Bayou Greenways 2020 (BG2020 Initiative) initiative which would close a gap in the trail and complete a total of 7 miles of trails along the south side of Buffalo Bayou. Furthermore, connections to the east-west protected two-way bike lane along Lamar Street from Sam Houston Park to Discovery Green should be explored. Other services and amenities that residents asked for in the write-in portion of the survey were: teen enrichment and volunteer programs, arts and crafts programs, and dance or theater programs.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Online Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector


Park Service Areas and Opportunities
Areas of Park Need
High Need
1/2 Mile Park Service Area
HPARD Parks
Discovery Green Park
Industrial Land Uses
University
Non-SPARK Schools
Water Bodies
0 0.075 0.15 0.3 Miles
JENSEN
CLINTON
NAVIGATION
CANAL
COMMERCE
PRAIRIE
DOWLING
POLK
LEELAND
CRAWFORD
TEXAS
FANNIN
MAIN
LOUISIANA
GRAY
BAGBY
DALLAS
ALLEN
SAWYER
MEMORIAL
ELYSIAN VIADUCT
ELYSIAN
GOYEN (JOHNNY) PARK
CONFEDERATE SHIP AREA
SESQUICENTENNIAL PARK
ALLEN'S LANDING MEMORIAL PARK
MARKET SQUARE PARK
FISH PLAZA
JONES PLAZA
LINEAR PARK
TRANQUILITY PARK
SAM HOUSTON PARK
CITY HALL PLAZA
HERMANN SQUARE
SESQUICENTENNIAL PARK
SMITH (R. E. "BOB") PARK
ANTIOCH PARK
ROOT MEMORIAL SQUARE PARK

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Antioch Park	1400	Smith/Clay	0.65	N/A
City Hall Annex Plaza	900	Bagby	0.26	N/A
City Hall Plaza	901	Bagby	0.24	N/A
Confederate Ship Area	801	Commerce	0.75	N/A
Old City Hall Clock Plaza		Congress/Travis	0.01	N/A
Smith (R. E. "Bob") Park	1300	Smith/Clay	0.08	N/A
	Total HPARD Pocket Park Acreage		**1.99**	
Neighborhood Parks				
Allen's Landing Memorial Park	1001	Commerce	1.76	N/A
Goyen (Johnny) Park	1	North Milam Street	1.66	N/A
Hermann Square	900	Smith	1.43	N/A
Jones Plaza* Operation & Maintenance(O&M) Agreement	600	Louisiana	1.41	N/A
Linear Park		Sabine St./Sesqui. Park	4.19	1.00
Market Square Park* (O&M Agreement)	301	Milam	1.43	N/A
Root Memorial Square Park* (O&M Agreement)	1400	Clay	1.43	N/A
Sesquicentennial Park* (O&M Agreement)	400	Texas Ave	4.00	2.00
Sesquicentennial Park Fish Plaza* (O&M Agreement)	500	Texas Ave	1.17	N/A
Tranquility Park	400	Rusk	4.30	N/A
	Total HPARD Neighborhood Park Acreage		**22.78**	
Community Parks				
Sam Houston Park	1000	Bagby	19.70	N/A
	Total HPARD Community Park Acreage		**19.70**	
	Total HPARD Park Acreage		**44.50**	
	Total HPARD Trail Length			**3.00**

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger). The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Approximately 5% of the area in this Park Sector is in need of parkland accessible within a ½ mile, as compared to the 55% of the population of the City of Houston who need park access. Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains 58.5 acres of parkland (Harris County, HPARD & other providers). Of the 1,136 acres in this Park Sector, 5% of this acreage is parkland.
- There are approximately 14,000 residents (including those in group quarters), 83% of residents are adults.
- Residential multifamily is expected to continue to increase.
- An additional 1.3 acres parkland is needed in Park Sector 16. This is based on the current population (2010 US Census) of the Park Sector and needs assessment done for Pocket, Neighborhood and Community parks (number of acres per 1,000 people).
- H-GAC population projections estimate that this area will add over 11,000 residents by 2040. To meet the parkland needs for the estimated 2040 population an additional 17 acres of parkland will be needed.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and amenity standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	3	2	5	1	1	1	2	1	1	1	1	1	1	1
2015 Existing	3	2	5*	1	0	0	2	0	0	0	1	0	0	0
2015 Needed	-	-	-	-	1	1	-	1	1	1	-	1	1	1
2040 Needed	3	-	2	1	2	-	-	-	1	-	-	-	-	2

*This number includes 1.3 miles of trails currently planned along Buffalo Bayou under the Bayou Greenways Initiative (BG2020).

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.
2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.
3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.
4. Annual Operation & Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$13,000,000	1 Acres- $7,000,000	$1,300,000	$900,000
2040	$9,000,000	17 Acres- $94,000,000	$10,000,000	$700,000
TOTAL 2040	$22,000,000	18 Acres- $101,000,000	$11,300,000	$1,600,000

PARK SECTOR PROFILE 16

LOCATION AND POLITICAL BOUNDARIES

Park Sector 16 is located west of 59, south of I-10, north of Midtown and east of IH-45.
Park Sector Size: 1,136 acres or 1.8 square miles
Population: 13,982 people, Density: 8,082 persons/sq. mi.
Political Boundaries within Park Sector 16:

- Council Districts: B, H, and I
- Super neighborhoods contained in this Park Sector: Downtown
- TIRZ: Market Square
- Management Districts: Houston Downtown

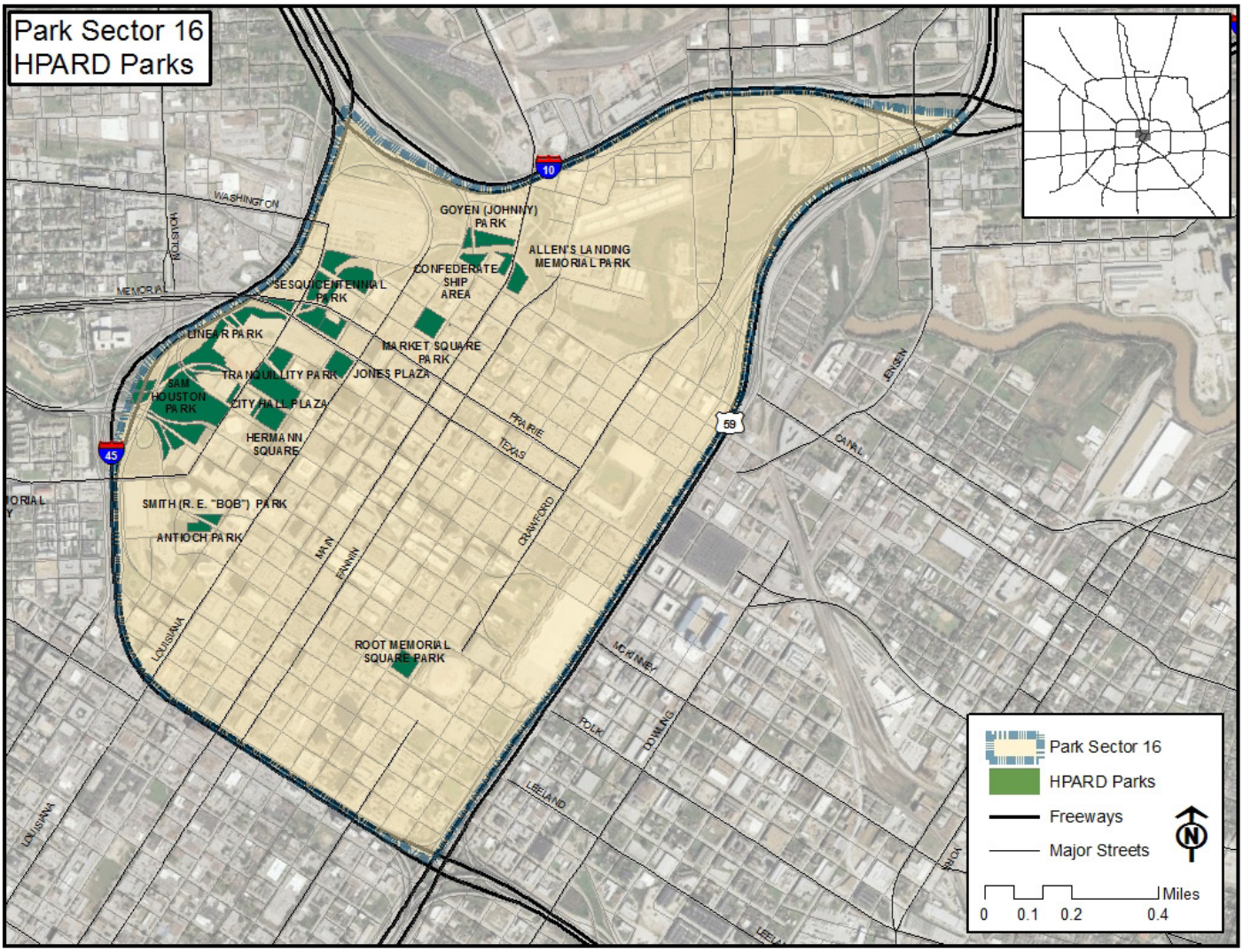


FIGURE 1. PARK SECTOR 16 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 16 Population	Park Sector 16 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**13,982**	-	**2,119,831**	-
Hispanic or Latino	2,800	20.0%	919,668	43.8%
Non-Hispanic White	4,867	34.8%	537,901	25.6%
Non-Hispanic Black	5,728	41.0%	485,956	23.1%
Non-Hispanic American-Indian	25	0.2%	126,098	6.1%
Non-Hispanic Asian	198	1.4%		
Non-Hispanic Hawaiian or Pacific Islander	1	0.0%		
Non-Hispanic Some Other Race	363	2.6%	26,828	1.3%

TABLE 1. PARK SECTOR 16 ETHNICITY (2010 CENSUS & City of Houston PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains about 0.7% of the population of Houston; the majority (41%) of the residents are Non-Hispanic Blacks, followed by (41%) Non-Hispanic Whites (35%), and Hispanic/Latinos (20%). The most dense portion of the Park Sector is the area in the northeast area of downtown closest to US-59.

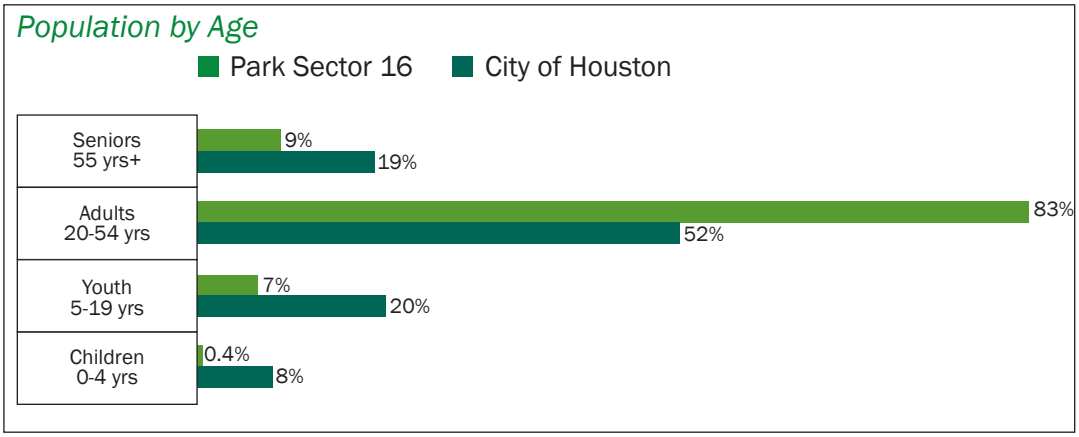


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 16 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that the percent of population under 19 (7%) is drastically lower than the percentage of the rest of the city (28%). Further breakdown of the age groups, as shown in Figure 2., reveals that there are significantly more (83%) adults 20-54 years old than the rest of the City of Houston (52%). Conversely, there are also noticeably less (0.4%) youth 0-4 years than the rest of the city (8%). These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 16 Population	PS 16 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	62	0.4%	0.4%	166,066	8%	8%
Youth	5-9 yrs	30	0.2%	7%	148,843	7%	21%
	10-14 yrs	30	0.2%		135,622	7%	
	15-19 yrs	969	7%		140,673	7%	
Adults	20-34 yrs	6,718	46%	83%	539,348	26%	52%
	35-44 yrs	2,911	20%		286,117	14%	
	45-54 yrs	2,553	17%		265,060	13%	
Senior	55-64 yrs	1,157	8%	9%	204,852	10%	19%
	65 yrs +	227	2%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 16 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are only a total of 1,861 housing units in this Park Sector. The percent of vacant housing in Park Sector 16 (24.4%) is almost twice as high as the vacancy rates for the entire city (12.3%). Home ownership for this Park Sector (13.5%) is much lower than that of the City of Houston's home ownership rate (39.7%); similarly, the share of renters (63.3%) is higher than that of the city's as a whole (47.1%).

Income

The median household income for this Park Sector ($37,139) is lower than that of the City of Houston ($48,322). In this Park Sector fifty-seven percent (57%) or 1,175 households in this area have an income below the Houston median household income.

Educational Attainment

Within Park Sector 16 the percent (14%) of adults 25+ years of age with a Bachelor's degree or above is twice as low than the relative percent for the entire City of Houston (28%). Conversely, the percentage of those within this Park Sector with a high school degree (35%) is higher than that of the City of Houston (23%).

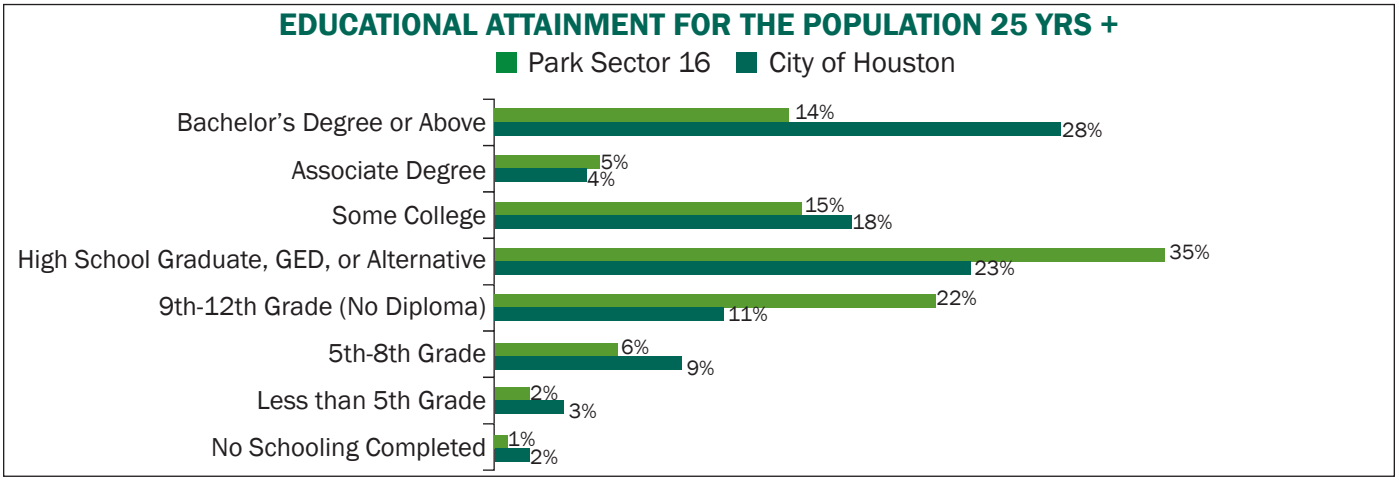


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 42.0% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The sample size for this Park Sector is too small and the results may be skewed. The results of the survey for this Park Sector show that none of the adult population received a diagnosis of diabetes by a professional, compared to that of the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that 22.9% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is lower than that of the entire city (32%). The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%.

The percent of the population for the entire city which does not engage in any moderate physical activity is 21.2%. For this Park Sector the survey shows that all of the population engages in some moderate physical activity. As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

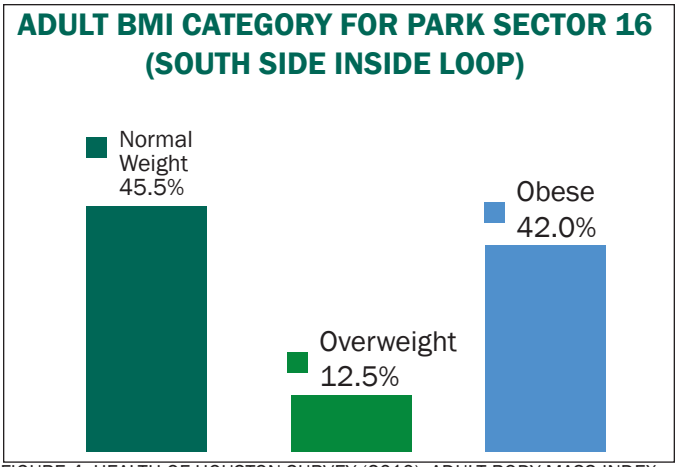


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	0.00
1	0.00
2	41.70
3	2.00
4	33.30
5	0.00
6	0.00
7	22.90

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	13	0.7%	2	0.3%
Multi-Family	672	35.5%	8	1.4%
Commercial	511	27%	162	26.1%
Office	133	7%	86	14%
Industrial	54	2.9%	32	5.2%
Public & Institutional	288	15.2%	195	31.5%
Transportation	42	2.2%	34	5.6%
Parks & Open Space	22	1.2%	30	4.8%
Undeveloped	158	8.3%	69	11.1%
Agriculture Production	1	0.1%	0	0.0%
TOTAL	1,896	100%	611	100%

TABLE 4. LAND USE BY DESCRIPTION (2013 HCAD)

Park Sector 16, while having significant acreage of single-family parcels (35.4%), is heavily industrial having almost a quarter of the land (24.8%) as a percentage of the total acreage in the Park Sector.

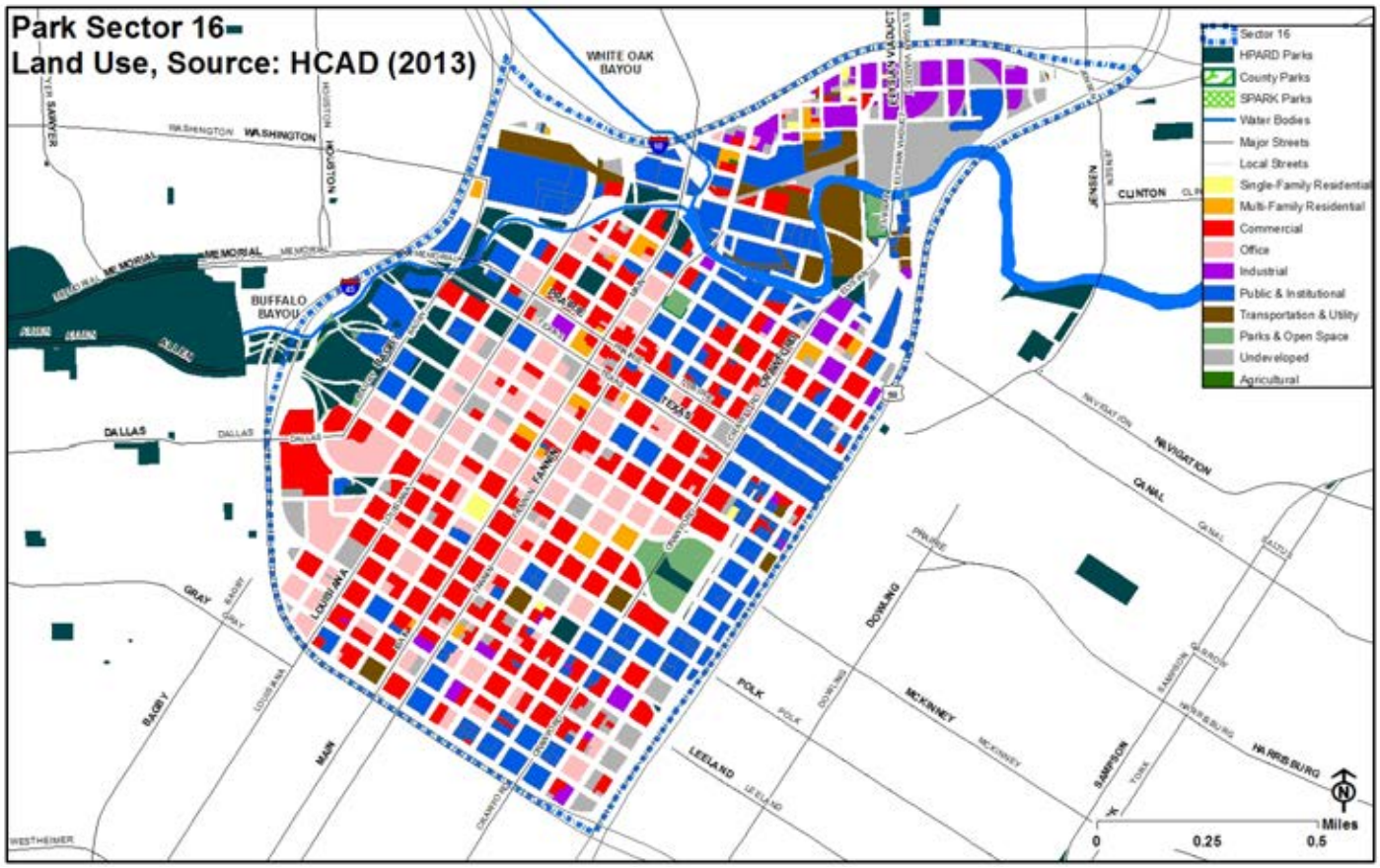


FIGURE 5. PARK SECTOR 16 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

HPARD PARKS AND TRAILS

The Houston Parks and Recreation Department (HPARD) owns 17 parks in this sector, accounting for 44.5 acres of parkland. Discovery Green (11.74 acres) is maintained and operated by the non-profit organization Discovery Green Conservancy. Harris County operates 2 parks in this sector that total of 2.30 acres of parkland. HPARD maintains 3 miles of trails along Buffalo Bayou. Harris County maintains 0.19 miles of trails in this sector. There is also a federally funded TIGER grant that will provide 0.4 mile shared use path connectors along Buffalo Bayou, a 0.6 mile shared use path to sharrow lanes (shared bicycle lanes) southeast of Downtown will connect to the Harrisburg trail. Additionally, there is a proposed 1.3 mile shared use path along Buffalo Bayou under the BG2020 initiative which would complete a gap along the banks on south side of Buffalo Bayou for a total of 7 miles of trails on the south side only. Interdepartmental agreements for these parks were done by ordinance with operations and maintenance responsibility under Convention and Entertainment Houston First while HPARD retains ownership of the property. There is an Operations and Maintenance agreement for Market Square Park between HPARD and the Downtown Management District.

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Antioch Park	1400	Smith/Clay	0.65	N/A
City Hall Annex Plaza	900	Bagby	0.26	N/A
City Hall Plaza	901	Bagby	0.24	N/A
Confederate Ship Area	801	Commerce	0.75	N/A
Old City Hall Clock Plaza		Congress/Travis	0.01	N/A
Smith (R. E. "Bob") Park	1300	Smith/Clay	0.08	N/A
Total HPARD Pocket Park Acreage			**1.99**	
Neighborhood Parks				
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Goyen (Johnny) Park	1	North Milam Street	1.66	N/A
Hermann Square	900	Smith	1.43	N/A
Jones Plaza* Operation & Maintenance(O&M) Agreement	600	Louisiana	1.41	N/A
Linear Park		Sabine St./Sesqui. Park	4.19	1
Market Square Park* (O&M Agreement)	301	Milam	1.43	N/A
Root Memorial Square Park* (O&M Agreement)	1400	Clay	1.43	N/A
Sesquicentennial Park* (O&M Agreement)	400	Texas Ave	4.00	2
Sesquicentennial Park Fish Plaza* (O&M Agreement)	500	Texas Ave	1.17	N/A
Tranquility Park	400	Rusk	4.30	N/A
Total HPARD Neighborhood Park Acreage			**22.78**	
Community Parks				
Sam Houston Park	1000	Bagby	19.70	N/A
Total HPARD Community Park Acreage			**19.70**	
	Total HPARD Park Acreage		**44.50**	
	Total HPARD Trail Length			**3**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 16

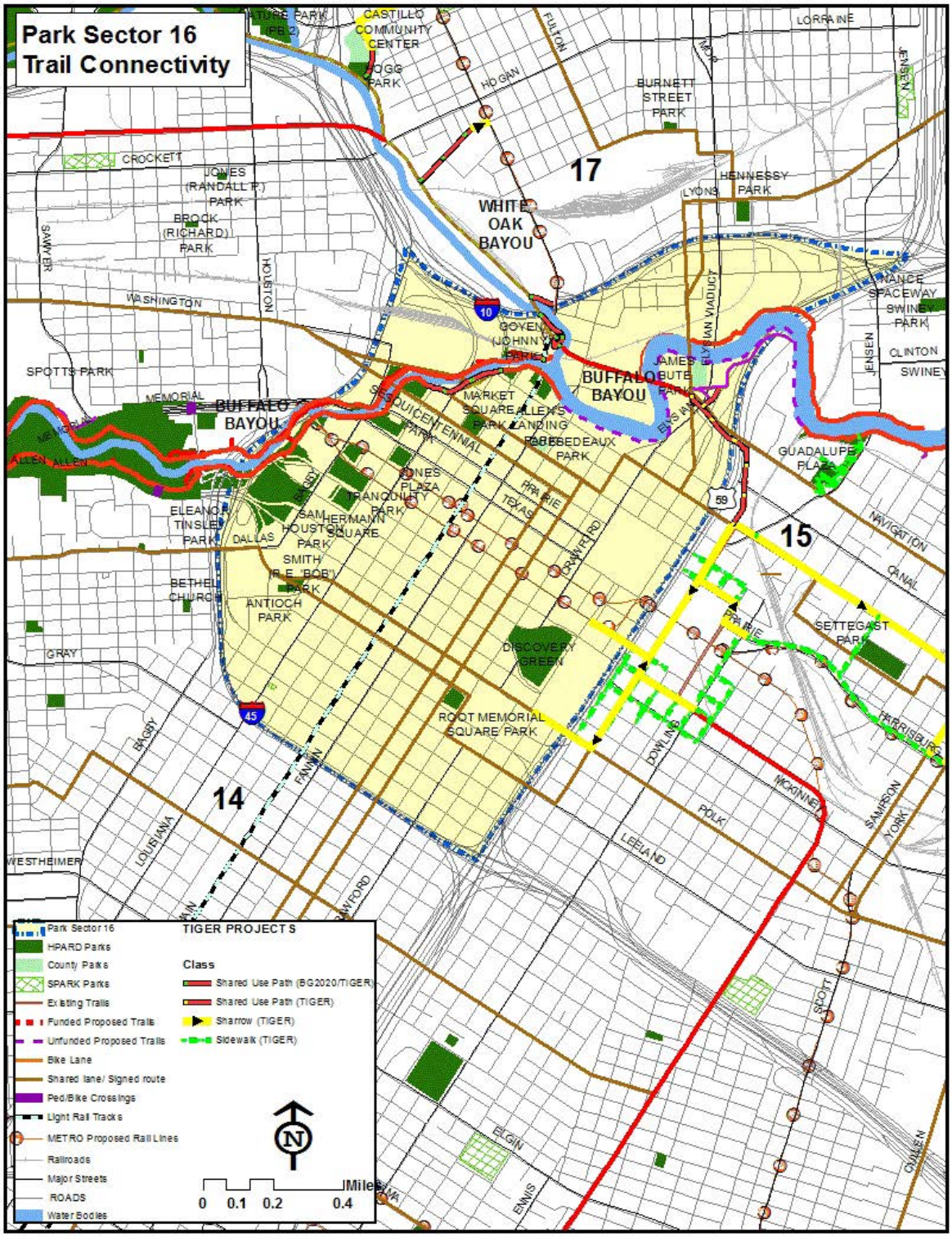


FIGURE 6. PARK SECTOR 16 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

County Parks and Trails

County Park				
Facility Name	**Address**	**Street**	**Total Acres**	**Trail Length**
Quebedeaux Park	1115	Congress Street	0.80	N/A
James Bute Park	512	McKee Street	1.50	0.19
		Total HC Park Acreage	**2.30**	
		Total HC Trail Length		**0.19**

TABLE 6. TRAILS INTERNAL TO COUNTY PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 16

Other Parks

Facility Name	Address	Street	Total Acres	Amenities
Discovery Green	1500	McKinney Street	11.74	Playground, trail, amphitheater, dog run, sprayground, open space

TABLE 7. PARKS AND AMENITIES OPERATED BY NON-MUNICIPAL ENTITIES

SPARK Parks

There is 1 combined Elementary and Middle School charter school participating in the SPARK Program, providing the public access to its amenities.

SPARK Parks				
Facility Name	**Address**	**Street**	**Total Acres***	**Amenities**
Young Scholars Academy For Excellence	1809	Louisiana St	0.11	Playground
Total Acres*			**0.11**	

TABLE 8. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 16 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

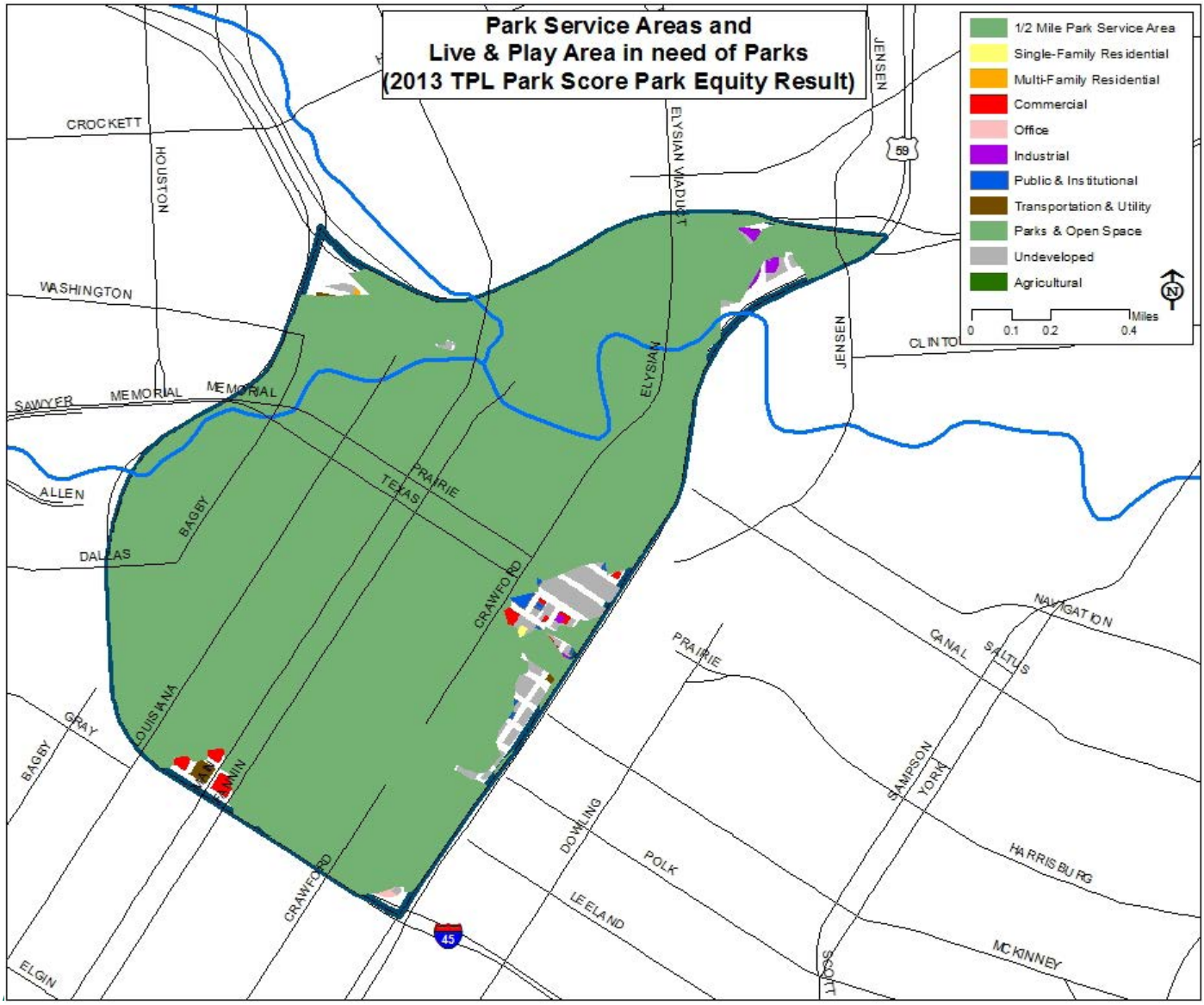
Open and Green Space

To determine level of service the 2007 Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by The Trust for Public Land ParkScore™ Project. Figure 6 below shows the level of service (LOS) based on the 2007 HPARD recommended standards of a number of acres per 1,000 people using the 2010 Census population. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 0.1 acres/1,000 people for a Pocket park, Park Sector 16 meets the standard. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 1 acres/1,000 people for a Neighborhood park, Park Sector 16 also meets this standard. For the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 1.5 acres/1,000 people for a community park, 1.27 acres of parkland are needed in Park Sector 16. However, due to the limited availability of land in the central business district, acquiring enough land to create a large community park may not be feasible.

Another way to measure the level of service provided by parks is by looking at a "walkable" distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ Project study mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project. The areas in green on the map in Figure 7 represent the area within ½ mile of existing parks not blocked by freeways or major roads. Roughly 5% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, which is dramatically lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector. Considering the limited availability of land and that most of this Park Sector is served by a park, the development of a Pocket or Neighborhood sized park might be more appropriate for the areas not served by a park.

Park Type	HPARD Park Number	HC Park Number	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
								Population		13,982	
Pocket Park (<1 acre)	6	1	1.99	0.80	0	2.79	0.1 ac/1,000 people	0.14	0.20	-0.59	-1.39
Neighborhood Park (1-15 acres)	11	1	22.78	1.50	11.74	36.0	1 ac/1,000 people	2.47	2.58	-20.54	-22.04
Community Park (16-150 acres)	1	0	19.70	0	0	19.70	1.5 ac/1,000 people	1.41	1.41	1.27	1.27
TOTAL	1	2	56.21	2.30	0	58.51				1.27	1.27

TABLE 9. HPARD LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need.



This map shows some of the community services available in this area: community centers, transit centers, schools, libraries, and YMCAs. There are very few community services located in this Park Sector, although there are some organizations that are located adjacent to the Park Sector area that could potentially be utilized by residents. There is one community service center for the homeless located just south of Park Sector 16: Search Homeless Center. The Downtown YMCA is located in this Park Sector and Holthouse Boys and Girls Club are just outside the Park Sector to the east. The libraries in this Park Sector provide computer access, community meeting space, and educational programs.

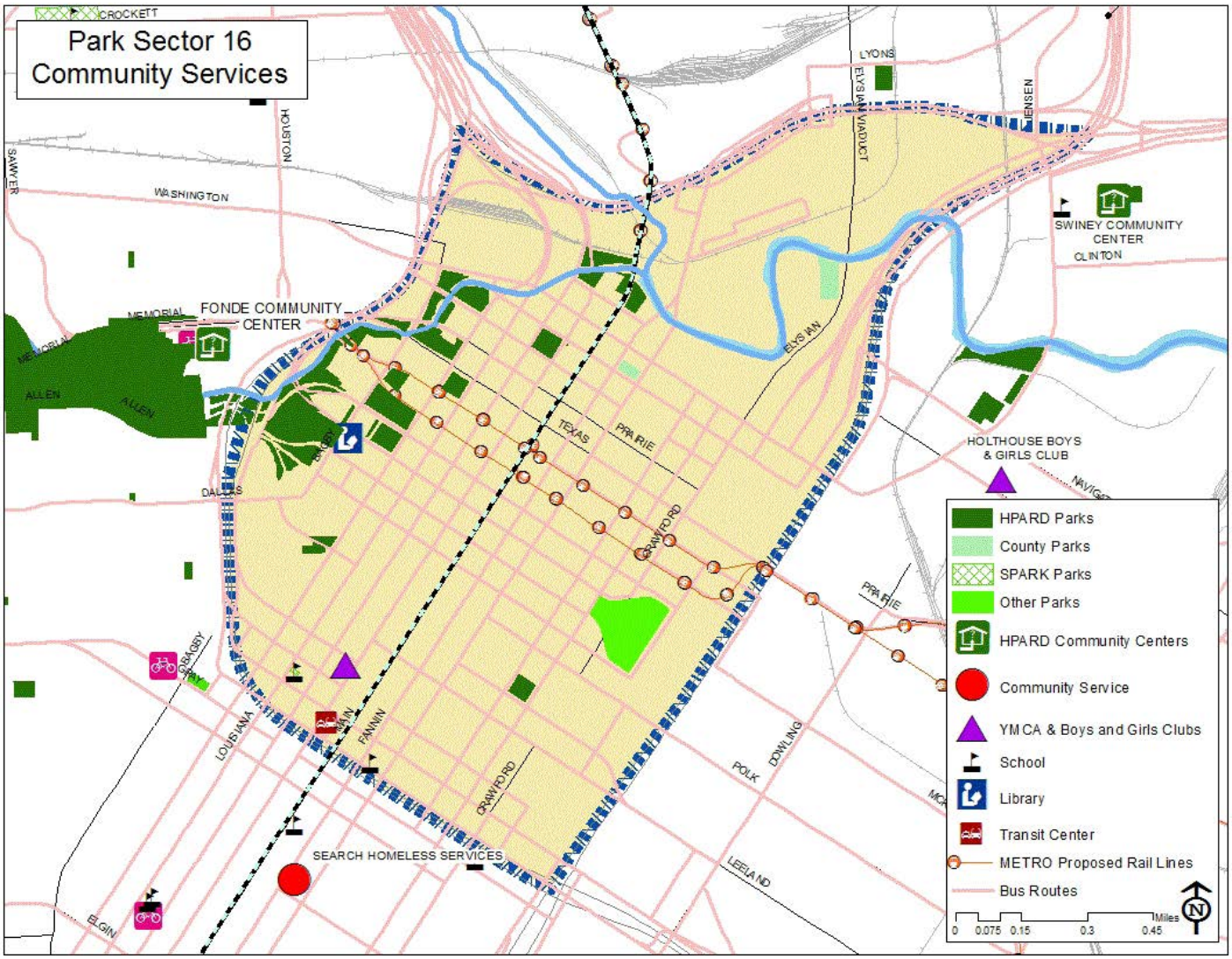


FIGURE 8. PARK SECTOR 16 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities - Level of Service

The 2007 HPARD standards by amenity have been applied to the amenities in Park Sector 16. The standard for each amenity is then compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these recommended HPARD standards, HPARD, Harris County and other providers are meeting the needs of the residents for playgrounds, picnic shelters, trails, outdoor basketball courts, dog parks, and outdoor spraygrounds. This Park Sector is deficient in tennis courts (1), volleyball courts (1), skate parks (1), community centers (1), swimming pools (1), baseball fields (1), softball fields (1), and soccer fields (1).

	HPARD	Harris County	Other Providers	Total	Recommended HPARD Standard		Current HPARD Level of Service		Current Total Inventory Level of Service		HPARD NEEDS Over/ Under Service	Total Inventory NEEDS Over/ Under Standard
							Population		13,982			
Playgrounds	0	0	3	3	1	4,000	1	13,982	1	4,661	3	0
Picnic Shelters	1	1	0	2	1	10,000	1	13,982	1	6,991	0	-1
Trails	3	0.19	0	3.2	0.2	1,000	0.21	1,000	0.23	1,000	0	0
Outdoor Basketball Courts	1	0	0	1	1	12,000	1	6,991	1	6,991	0	0
Tennis	0	0	0	0	1	10,000	0	13,982	0	13,982	1	1
Volleyball	0	0	0	0	1	50,000	0	13,982	0	13,982	1	1
Dog Parks	1	0	1	2	1	100,000	1	13,982	1	6,991	0	-2
Skate Parks	0	0	0	0	1	100,000	0	13,982	0	13,982	1	1
Community Centers	0	0	0	0	1	30,000	0	13,982	0	13,982	1	1
Swimming Pools	0	0	0	0	1	50,000	0	13,982	0	13,982	1	1
Outdoor Spraygrounds	0	0	1	1	1	100,000	1	13,982	1	13,982	0	-1
Baseball (Lit & Unlit)	0	0	0	0	1 field	30,000	0	13,982	0	13,982	1	1
Softball (Lit & Unlit)	0	0	0	0	1 field	30,000	0	13,982	0	13,982	1	1
Soccer (Lit & Unlit)	0	0	0	0	1 field	10,000	0	13,982	0	13,982	1	1

TABLE 10. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 16
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- Allen's Landing Memorial Park will receive renovations as part of a partnership with the Buffalo Bayou Partnership. Projected completion date of the improvements is 2015.

- Sam Houston Park received $1 million in CIP funding. A matching grant was awarded by the Texas Parks and Wildlife Department to implement the park's Master Plan. The scope of work includes: site demolition and selective tree removal; site paving, including concrete walks, a granite plaza, brick pavers, and a grass pave truck entry; new parking lots; entry signs; landscaping with turf establishment and irrigation; refurbishment and relocation of the mechanical system for an existing fountain; relocation of an existing cottage on site, including traffic closures; relocation of various art pieces on site, including off-site storage during construction; relocation of existing bandstand on site; site electrical work, including lighting, electrical outlets, and updated electrical service to some sites; procurement and installation of a prefabricated restroom building; site furnishings, including benches, trash receptacles, and a swing set; additional fencing, where necessary.

SUPPLEMENTAL MAPS:

Park Sector 16 Council Districts

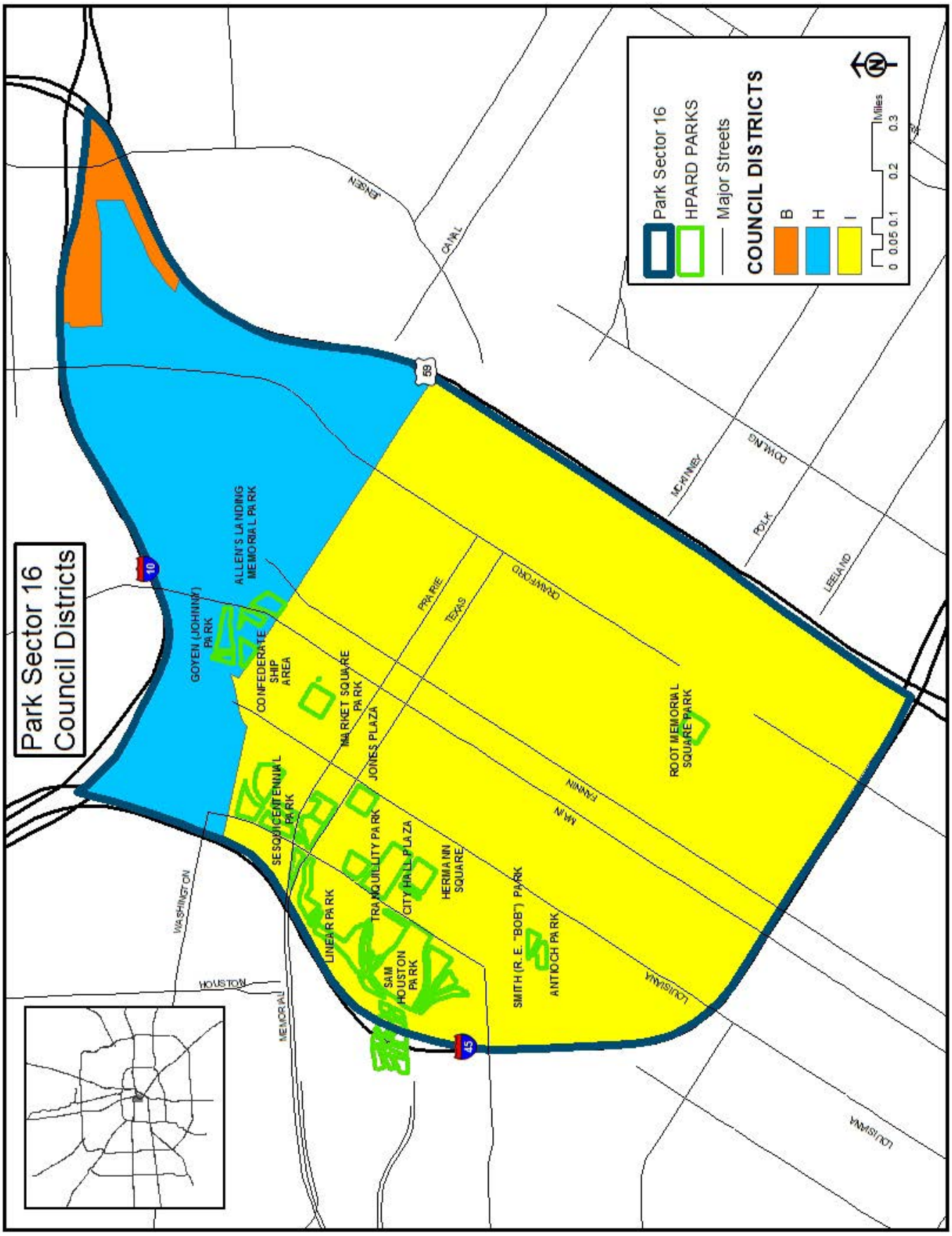


FIGURE 1: PARK SECTOR 16 COUNCIL DISTRICTS

Park Sector 16 Tax Increment Reinvestment Zone (TIRZs) and Management Districts

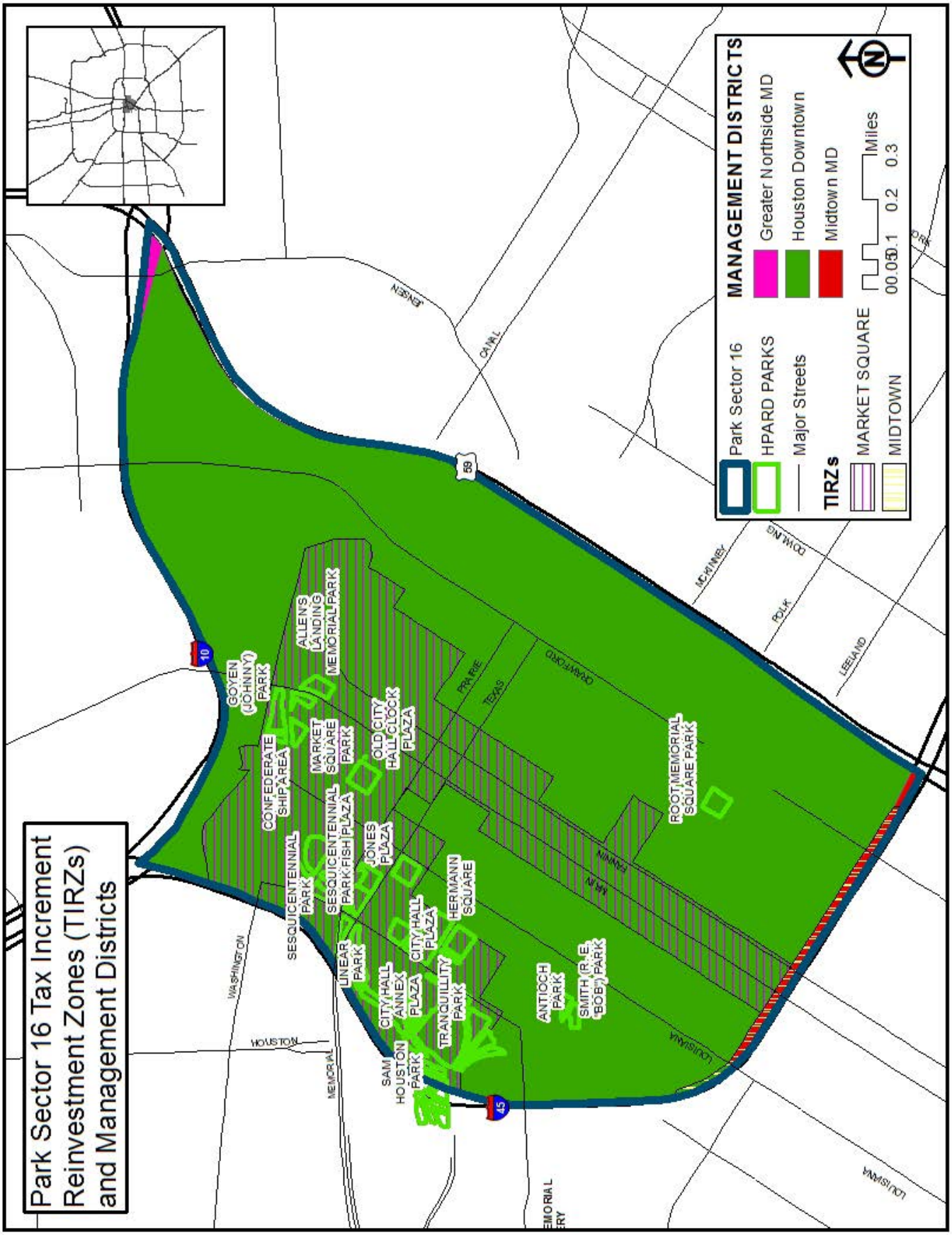


FIGURE 2: PARK SECTOR 16 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 16 Super neighborhoods

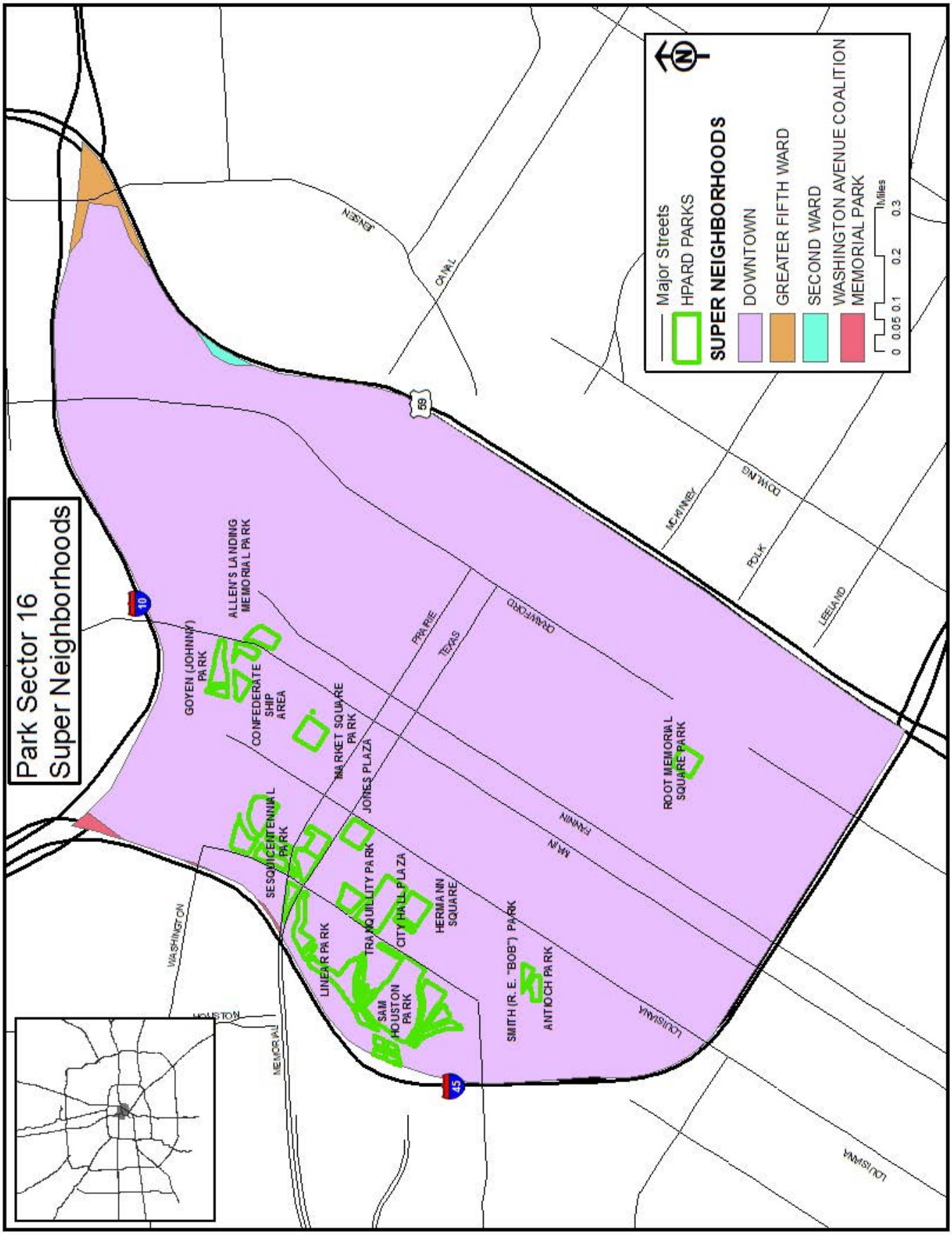


FIGURE 3: PARK SECTOR 16 SUPER NEIGHBORHOODS

Park Sector 16 Floodplain Areas

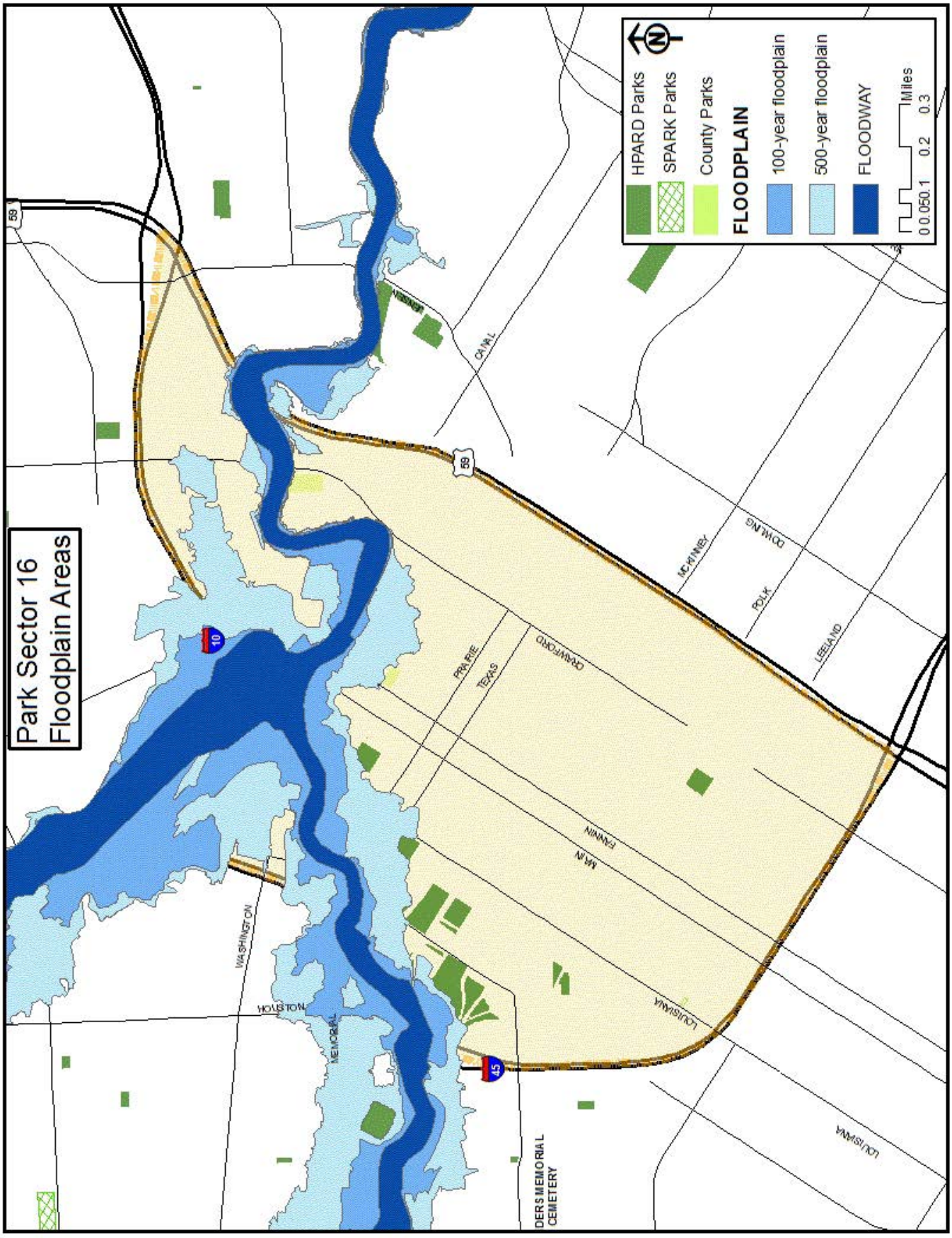


FIGURE 4: PARK SECTOR 16 FLOODPLAIN AREAS

PARK SECTOR 17

PARK SECTOR 17 SUMMARY

PARK SECTOR 17 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and data provided by the Trust for Public Land ParkScore™ Project), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Develop Neighborhood connections to parks and trails
2. Revitalize existing parks
3. Acquire new parkland
4. Develop new park facilities
5. Preserve environmentally sensitive areas
6. Develop partnerships with the school system and other entities

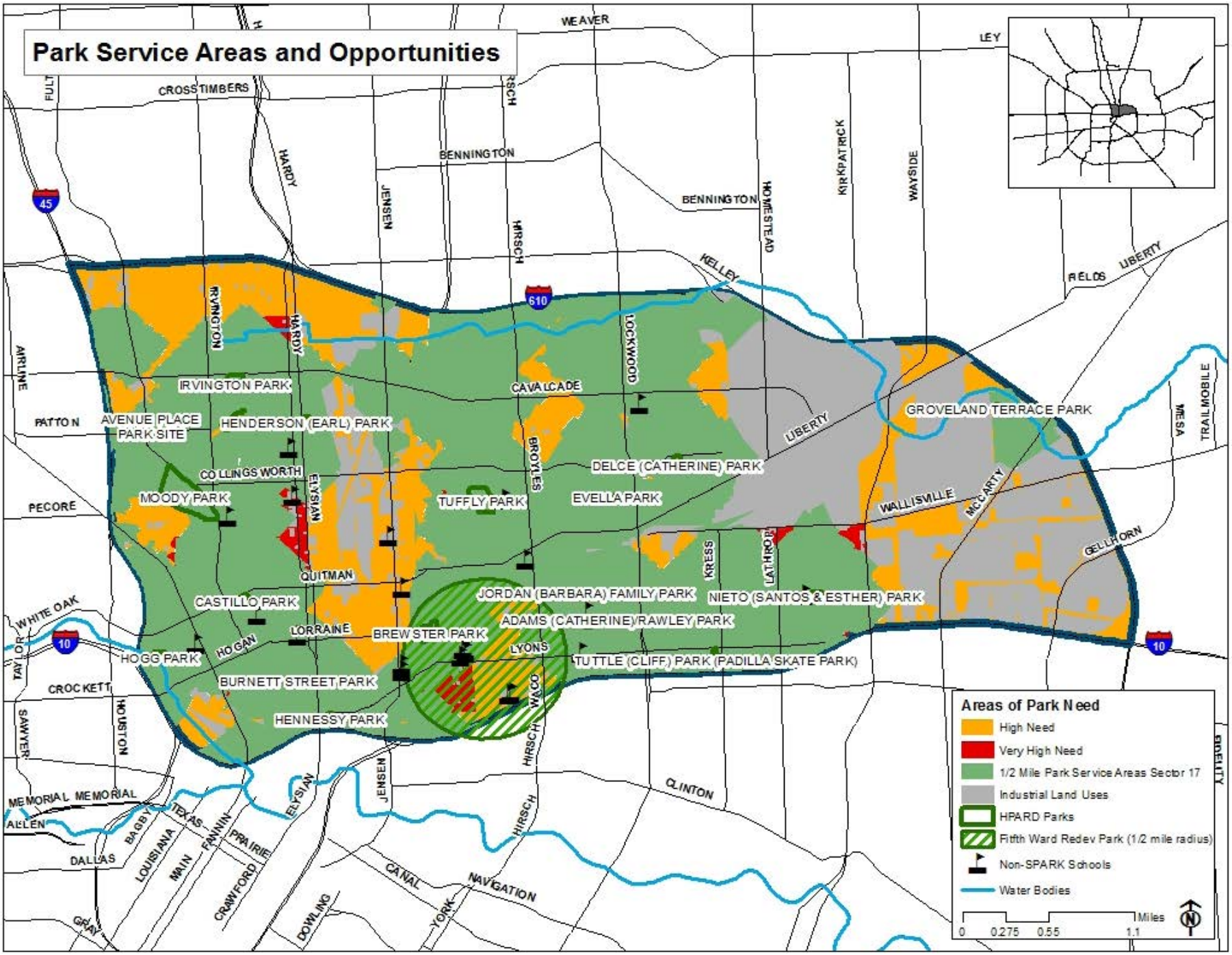
RECOMMENDATIONS

The parks in Park Sector 17 that have the highest need for redevelopment listed are from greatest need to least need: Evella Park, Groveland Terrace Park, Jordan, Barbara Family Park (formerly Wipprechet Park), and Delce (Catherine) Park.

Fifty-five (55) acres of parkland are needed in this Park Sector. There are areas of need in the northwest and central portions of the Park Sector. Schools not participating in the SPARK School Park Program (Non-SPARK schools) should be explored as potential future partnerships for park space. Over 76% of the population in this Park Sector has incomes considered to be low to moderate. Pursuing Community Development Block Grants (CDBG) for park improvements should be a priority. In addition, CDBG funding could be considered in partnership with the SPARK program for to add park space to the system and provide improvements at Non-SPARK Schools. The central area, north and south of Quitman Avenue, would particularly benefit from additional SPARK Parks. Growth in this Park Sector is expected along the METRORail and closest to downtown. There is a high percentage of undeveloped land in this Park Sector which could be conserved for future park use.

This Park Sector is deficient in trails, tennis courts, volleyball courts, dog parks and softball and soccer fields. In the 2014 survey, the top three priorities of residents in Park Sector 17 when asked what recreational needs existed in their Neighborhood were: hike, bike and walk trails, upgraded recreation centers, and playground areas. In addition to the existing 6.9 miles of trails, the Bayou Greenways 2020 (BG2020 Initiative) initiative will add 4.6 miles to the Hunting Bayou trail system. Through the TIGER grant HPARD will be adding key connections from this Park Sector into the White Oak Bayou system, providing access to downtown via the Buffalo Bayou trail system. Other services and amenities that residents asked for in the write-in portion of the survey were: arts and crafts programs, dance or theater programs, nutrition programs, fishing activities, outdoor environmental education and camping, swim lessons, adult softball leagues, adaptive sports and recreation programs for people with disabilities, and community gardens. Because of the health profile for this Park Sector (49% of residents are obese and 26.1% have diabetes, which are levels higher than in any other Park Sector in the city), partnerships focused on increasing physical activity levels and programming for healthy living should be explored.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector


Park Service Areas and Opportunities
WEAVER
LEY
CROSS TIMBERS
HARDY
BENNINGTON
JENSEN
HIRSCH
KIRKPATRICK
WAYSIDE
HOMESTEAD
KELLEY
FIELDS
LIBERTY
45
610
IRVINGTON
LOCKWOOD
AIRLINE
PATTON
IRVINGTON PARK
CAVALCADE
AVENUE PLACE PARK SITE
HENDERSON (EARL) PARK
GROVELAND TERRACE PARK
MESA
TRAILMOBILE
COLLINGSWORTH
ELYSIAN
BROWLEY
DELCE (CATHERINE) PARK
PECORE
MOODY PARK
TUFFLY PARK
EVELLA PARK
WALLISVILLE
MCCARTY
GELLHORN
KRESS
LATHROP
QUITMAN
JORDAN (BARBARA) FAMILY PARK
NIETO (SANTOS & ESTHER) PARK
WHITE OAK
CASTILLO PARK
ADAMS (CATHERINE) RAWLEY PARK
LORRAINE
BREWSTER PARK
LYONS
10
HOGG PARK
HOGAN
TUTTLE (CLIFF) PARK (PADILLA SKATE PARK)
CROCKETT
BURNETT STREET PARK
TAYLOR
SAWYER
HOUSTON
HENNESSY PARK
WACO
HIRSCH
GOODLY
CLINTON
MEMORIAL
ALLEN
BAGBY
TEXAS
LOUISIANA
MAIN
FANNIN
PRAIRIE
ELYSIAN
JENSEN
DALLAS
CRAWFORD
CANAL
NAVIGATION
YORK
DOWLING
GRAY
Areas of Park Need
High Need
Very High Need
1/2 Mile Park Service Areas Sector 17
Industrial Land Uses
HPARD Parks
Fifth Ward Redev Park (1/2 mile radius)
Non-SPARK Schools
Water Bodies
Miles
0
0.275
0.55
1.1
N

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Evella Park	5210	Evella	0.23	N/A
Adams (Catherine)/Rawley Park	4800	Rawley	0.40	N/A
Burnett St. Park	1500	Burnett	0.40	N/A
Jordan, Barbara Family Park (formerly Wipprecht Park)	2400	Wipprecht/4700 Lee	0.69	N/A
Hogg Park	2211	South	0.85	N/A
	Total HPARD Pocket Park Acreage		**2.57**	
Neighborhood Parks				
Avenue Place Park Site	4000	Irvington	1.05	N/A
Groveland Terrace Park	3921	Herald	1.29	0.16
Henderson (Earl) Park	4250	Elysian	1.40	0.21
Hennessy Park	1900	Lyons Ave	1.40	0.20
Castillo Park	1200	Quitman	1.84	N/A
Nieto (Santos and Esther) Park	500	Port	2.00	N/A
Delce (Catherine) Park	5700	Collingsworth	2.67	0.21
Tuttle (Cliff) Park (Padilla Skate Park)	6200	Lyons	3.40	N/A
Brewster Park	1800	Des Chaumes	6.09	N/A
Irvington Park	1000	Cavalcade	6.30	N/A
Tuffly Park	3200	Russell	11.32	0.33
	Total HPARD Neighborhood Park Acreage		**38.50**	
Community Parks				
Moody Park	3725	Fulton	34.90	0.94
	Total HPARD Community Park Acreage		**34.90**	
	Total HPARD Park Acreage		**76.00**	
Urban Trails / Shared Use Paths	Boundaries		Acres	Trail Length
Houston Heritage West	I-45 to I-10			1.20
Houston Heritage West Connectors to Main St (2014)	Hogg Park to Quitman, HH to Pickney			0.40
				1.60
	Total HPARD Trail Length			**3.65**

EXISTING COMMUNITY CENTERS AND POOLS

Community Centers and Pool Facilities	Address	Zip Code	Agency Responsible
Julia C. Hester House	2020 Solo Street	77020	The Julia C. Hester House
Leonel J. Castillo Community Center	13828 Corpus Christi	77009	Harris County
Moody Community Center and Pool	3725 Fulton	77009	HPARD
Tuffly Community Center and Pool	3200 Russell	77026	HPARD

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger). The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Approximately 20% of the area in this Park Sector is in need of parkland accessible within a ½ mile, as compared to the 55% of the population of the City of Houston who need park access. Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains 97 acres of parkland (Harris County, HPARD & other providers). Of the 9,638 acres in this Park Sector, 1% of this acreage is parkland.
- There are approximately 58,000 residents, 65% are Hispanic and there is a high percentage of elderly people & youths.
- The rate of obesity in this Park Sector (49%) is much higher than for the city as a whole of (31%)
- Growth for this Park Sector is expected along the METRORail Red Line and closest to downtown.
- An additional 55 acres of parkland are needed in Park Sector 17. This is based on the current population (2010 US Census) of the Park Sector and needs assessment done for Pocket, Neighborhood and Community parks (number of acres per 1,000 people).
- The Trust for Public Land ParkScore™ shows high need in northwest and central portion of the Park Sector.
- H-GAC population projections estimate that this area will add over 7,000 residents by 2040. To meet the park land needs for the estimated 2040 population an additional 19 acres of parkland will be needed.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	27	10	11	16	6	2	1	1	4	2	2	7	2	6
2015 Existing	27	10	11*	16	3	0	0	1	4	2	2	7	1	4
2015 Needed	-	-	-	-	3	2	1	-	-	-	-	-	1	2
2040 Needed	-	-	1	-	1	-	-	-	-	-	-	-	-	1

*This number includes 4.55 miles of trails currently planned along Hunting Bayou under the Bayou Greenways Initiative (BG2020).

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.
2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.
3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.
4. Annual Operation & Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation per resident in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$7,000,000	55 Acres- $10,000,000	$19,000,000	$3,600,000
2040	$1,000,000	19 Acres- $3,000,000	$40,000,000	$500,000
TOTAL 2040	$8,000,000	74 Acres- $13,000,000	$59,000,000	$4,100,000

PARK SECTOR PROFILE 17

LOCATION AND POLITICAL BOUNDARIES

Park Sector 17 is located inside and south of the 610 loop, east of IH-45, and north of IH-10.
Park Sector size: 9,638 acres or 15.1 square miles
Population: approximately 58,256 people, Density: approximately 3,858 persons/sq. mi.
Political boundaries with Park Sector 17:

- Council Districts: H and B
- Harris County Precinct: 1 and 2
- Super neighborhoods: Northside Village, Kashmere Gardens, Greater Fifth Ward, Denver Harbor/ Port Houston, Pleasantville Area, Downtown and Settegast
- Tax Increment Reinvestment Zones: Hardy/Near Northside (21) and Fifth Ward (18)
- Management Districts: Greater Northside

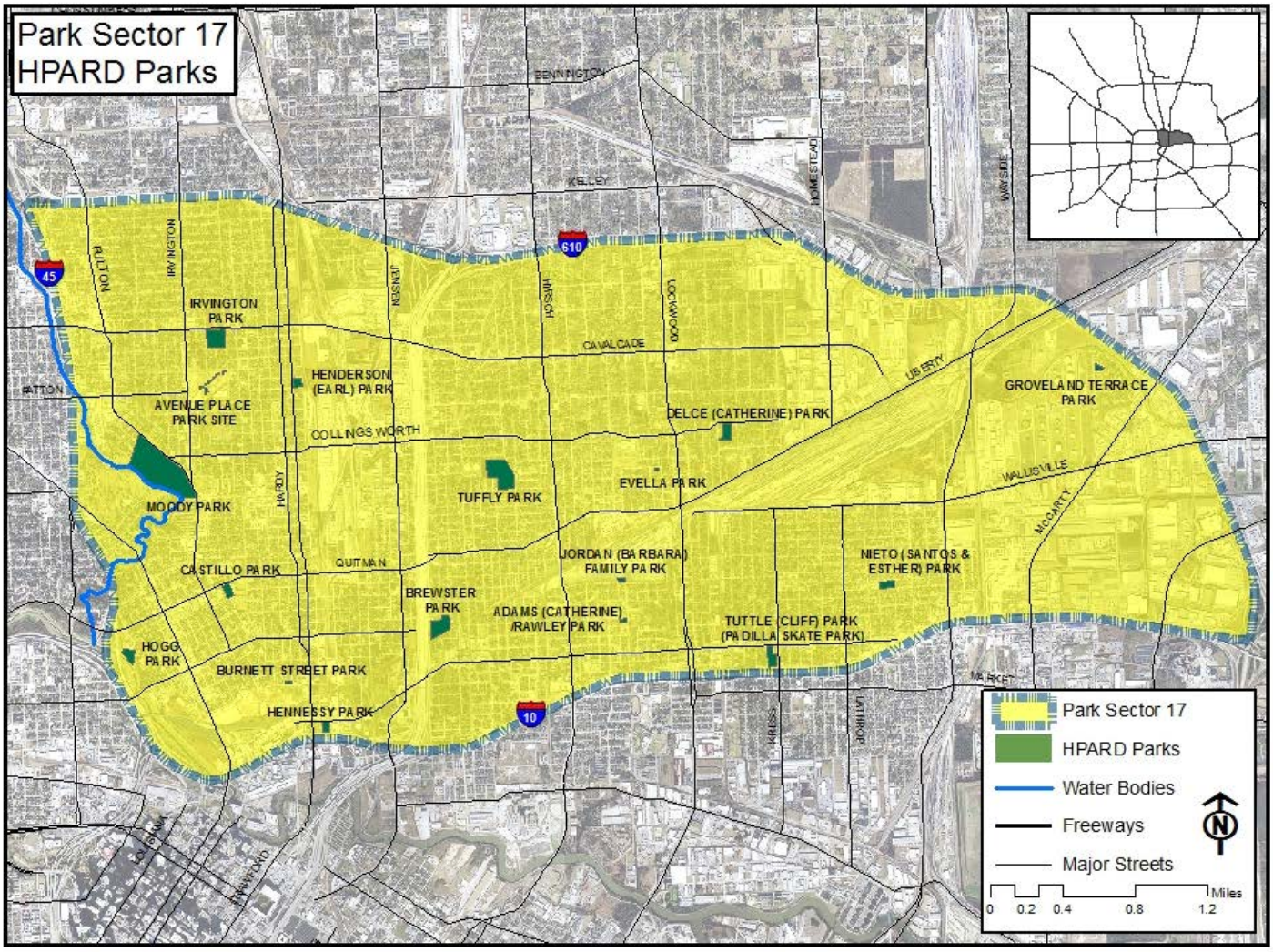


FIGURE 1. PARK SECTOR 17 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 17 Population	Park Sector 17 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**58,256**	-	**2,119,831**	-
Hispanic or Latino	37,794	64.9%	919,668	43.8%
Non-Hispanic White	2,650	4.5%	537,901	25.6%
Non-Hispanic Black	17,204	29.5%	485,956	23.1%
Non-Hispanic American-Indian	111	0.2%	126,098	6.1%
Non-Hispanic Asian	179	0.3%		
Non-Hispanic Hawaiian or Pacific Islander	13	0.0%		
Non-Hispanic Some Other Race	80	0.1%	26,828	1.3%

TABLE 1. PARK SECTOR 17 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains about 2.8% of the population of Houston; the majority (65%) of the residents are Hispanic/Latino, followed by Non-Hispanic Blacks (30%), with other ethnic groups making up 5% of the population. The population distribution within the Park Sector is approximately 45% west of US 59; the census tracts with higher population abut IH-45. The Park Sector portion west of US 59 carries approximately 55% percent of the population which is almost equally divided north and south of Wallisville Rd.

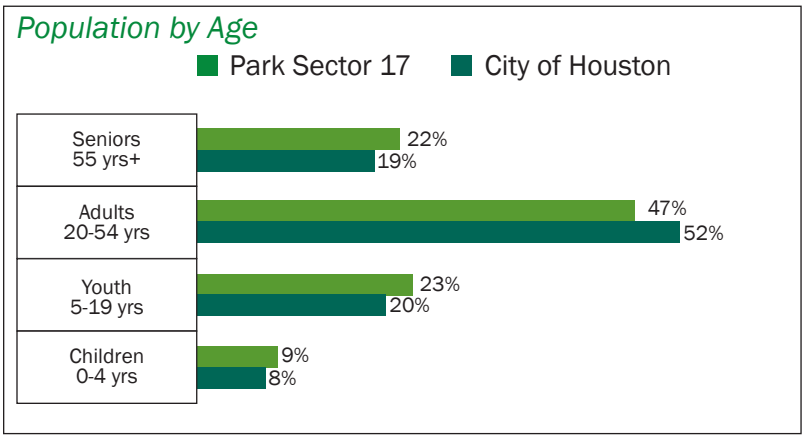


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 17 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that the percent of population under 19 is slightly higher (28%) than that of the rest of the city (26%). Further breakdown of the age groups reveals that the percent of children, youth and seniors (55+yrs as defined for HPARD programming) is higher in proportion to that of the City of Houston, and the young adult (20-34 yrs) population for this Park Sector is slightly lower than the percent for that of Houston. These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 17 Population	PS 17 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	5,049	9%	9%	166,066	8%	8%
Youth	5-9 yrs	4,681	8%	23%	148,843	7%	21%
	10-14 yrs	4,312	7%		135,622	7%	
	15-19 yrs	4,610	8%		140,673	7%	
Adults	20-34 yrs	12,239	21%	47%	539,348	26%	52%
	35-44 yrs	7,478	13%		286,117	14%	
	45-54 yrs	8,068	14%		265,060	13%	
Senior	55-64 yrs	6217	10%	22%	204,852	10%	19%
	65 yrs +	6,647	11%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 17 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 22,608 housing units in this Park Sector. The percent of vacant housing in Park Sector 17 (16%) is higher in this Park Sector as compared to the vacancy rates for the entire city (12%). Home ownership rate for this Park Sector (38%) is lower than that of the City of Houston (40%). According to the Northside Livable Center Plan (which covers a small portion of Park Sector 17 along the western boundary) the expected population growth for the area closest to downtown is 3.5% through 2035. Areas along IH-45 will experience annual growth of 0.5%-1.5%.

Income

The median household income for this Park Sector is $23,204, the lowest of all Park Sectors in the city. Over 80% or 17,779 of the households in this area have an income below the Houston median household income ($48,322).

Educational Attainment

Within Park Sector 17 the percent (31%) of individuals 25+ years of age with a high school degree is significantly higher than the relative percent for the entire City of Houston (23%). Conversely, almost twice the population 25 years or older (48%) do not have a high school diploma compared to the same population for the City of Houston (26%).

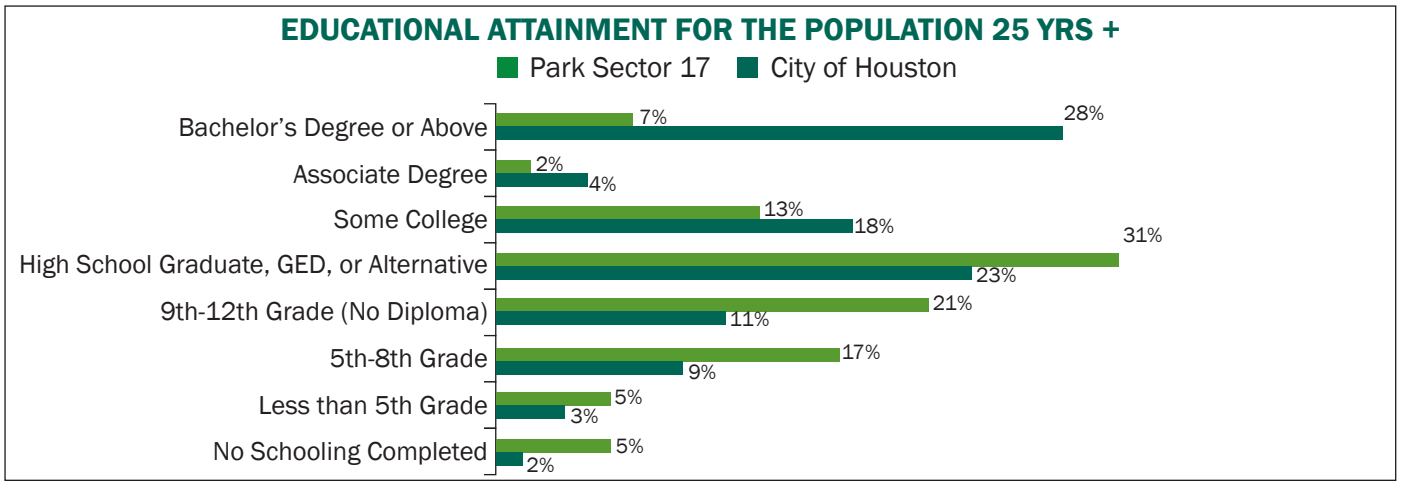


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 49.0% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that 26.1% of the adult population received a diagnosis of diabetes by a professional, which is more than double the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that 37% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is higher than that of the entire city (32%). The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%.

Finally, the survey shows that 24.9% of the population does not engage in moderate physical activity at all, which is about the slightly higher than the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

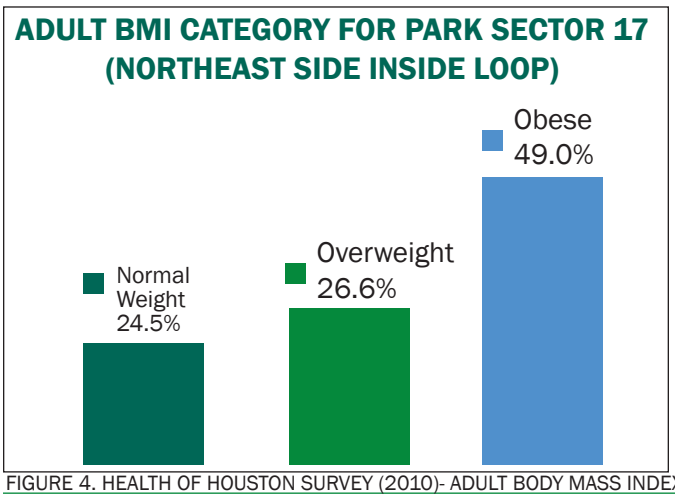


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	24.90
1	5.30
2	16.20
3	9.40
4	7.30
5	9.90
6	3.60
7	23.40

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

	Acreage of Parcels	Percent of Acreage
Single-Family	2,457	35.4%
Multi-Family	96	1.4%
Commercial	293	4.2%
Office	22	0.3%
Industrial	1,721	24.8%
Public & Institutional	121	1.7%
Transportation	337	4.9%
Parks & Open Space	0.20	0.003%
Undeveloped	1,887	27.2%
Agriculture Production	0.4	0.006%
TOTAL	6,935	

TABLE 4. LAND USE BY DESCRIPTION (2012 HCAD)

The average cost of land per square foot is low compared to other parts of the city inside the 610 loop. This may provide an opportunity to purchase distressed properties and use them as open space thus increasing the pervious cover along both Little White Oak and Hunting Bayous.

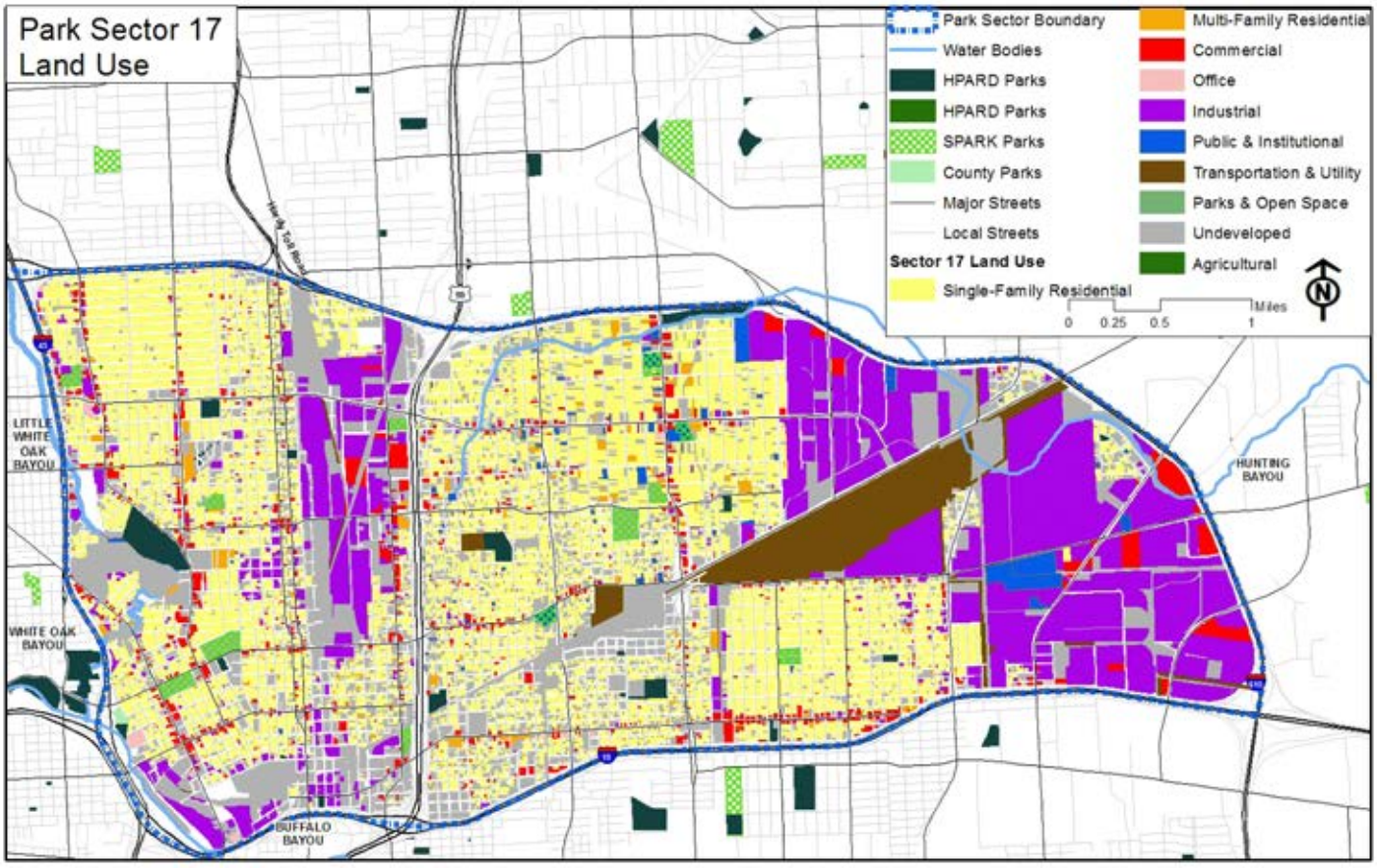


FIGURE 5. PARK SECTOR 17 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

According to HCAD approximately one-third of the parcel land use is single-family while almost a quarter of the land of the total acreage in the Park Sector is industrial. The land use map shows the impact of the industrial parcels, rail yards, and Highway 59 on the circulation within this Park Sector. With over a quarter of the land classified as undeveloped, the opportunities to expand parkland in this Park Sector should be explored.

Some of the properties identified as undeveloped appear to be used for railroad and other purposes: east of Hardy Road are parcels that belong to Harris County for the construction of the Hardy Toll Road, areas southwest of Moody Park toward I-45 are the Historic Hollywood Cemetery, and parcels southeast of Moody Park represent the Looscan Elementary School, and undeveloped parcels between Waco and Lockwood along the rail are property of the Southern Pacific Railroad Company. A 47-acre parcel on the southwest portion of Sector 17 is slated to become the Hardy Yards Redevelopment project with 3,000 dwelling units projected along with 120,000 sq ft of retail space and 500,000 sq ft of office space. In addition, the rail may have some impact on the land use along the rail corridor.

HPARD PARKS AND TRAILS

The Houston Parks and Recreation Department operates 17 parks in the area totaling 76 acres of parkland. Harris County operates 5 parks in the area totaling 20.1 acres of parkland and the Fifth Ward Community Redevelopment Corporation (CRC) operates a 0.5 acre park free to the public in this area. Harris County and HPARD have inter-local agreements regarding maintenance and operation for Boyce-Dorian and Hutcheson Parks.

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Adams (Catherine)/Rawley Park	4800	Rawley	0.40	N/A
Burnett St. Park	1500	Burnett	0.40	N/A
Evella Park	5210	Evella	0.23	N/A
Hogg Park	2211	South	0.85	N/A
Jordan, Barbara Family Park (formerly Wipprecht Park)	2400	Wipprecht/4700 Lee	0.69	N/A
Total HPARD Pocket Park Acreage			**2.57**	
Neighborhood Parks				
Avenue Place Park Site	4000	Irvington	1.05	N/A
Brewster Park	1800	Des Chaumes	6.09	N/A
Castillo Park	1200	Quitman	1.84	N/A
Delce (Catherine) Park	5700	Collingsworth	2.67	0.21
Groveland Terrace Park	3921	Herald	1.29	0.16
Henderson (Earl) Park	4250	Elysian	1.40	0.21
Hennessy Park	1900	Lyons Ave	1.40	0.20
Irvington Park	1000	Cavalcade	6.30	N/A
Nieto (Santos and Esther) Park	500	Port	2.00	N/A
Tuffly Park	3200	Russell	11.32	0.33
Tuttle (Cliff) Park (Padilla Skate Park)	6200	Lyons	3.40	N/A
Total HPARD Neighborhood Park Acreage			**38.50**	
Community Parks				
Moody Park	3725	Fulton	34.90	0.94
Total HPARD Community Park Acreage			**34.90**	
Total HPARD Park Acreage			**76.00**	
Urban Trails / Shared Use Paths	Boundaries		Acres	Trail Length
Houston Heritage West	I-45 to I-10			1.2
Houston Heritage West Connectors to Main St (Future)	Hogg Park to Quitman, HH to Pickney			0.4
				1.6
Total HPARD Trail Length				**3.65**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 17

Figure 7 shows the existing shared bike lanes/shared routes, trails, proposed extensions from Houston Heritage Trails and the expansion of Hunting Bayou Trail in accordance with the Bayou Greenway Initiative (BG2020). Currently, HPARD maintains 2.05 miles of trails inside parks and 1.2 miles along White Oak Bayou (Houston Heritage West), HISD maintains 0.5 miles (tracks) inside 2 SPARK Parks in the Park Sector, and Harris County maintains a total of 2.75 miles of trails inside parks and along Hunting Bayou. There are 6.9 miles of trails in this Park Sector.

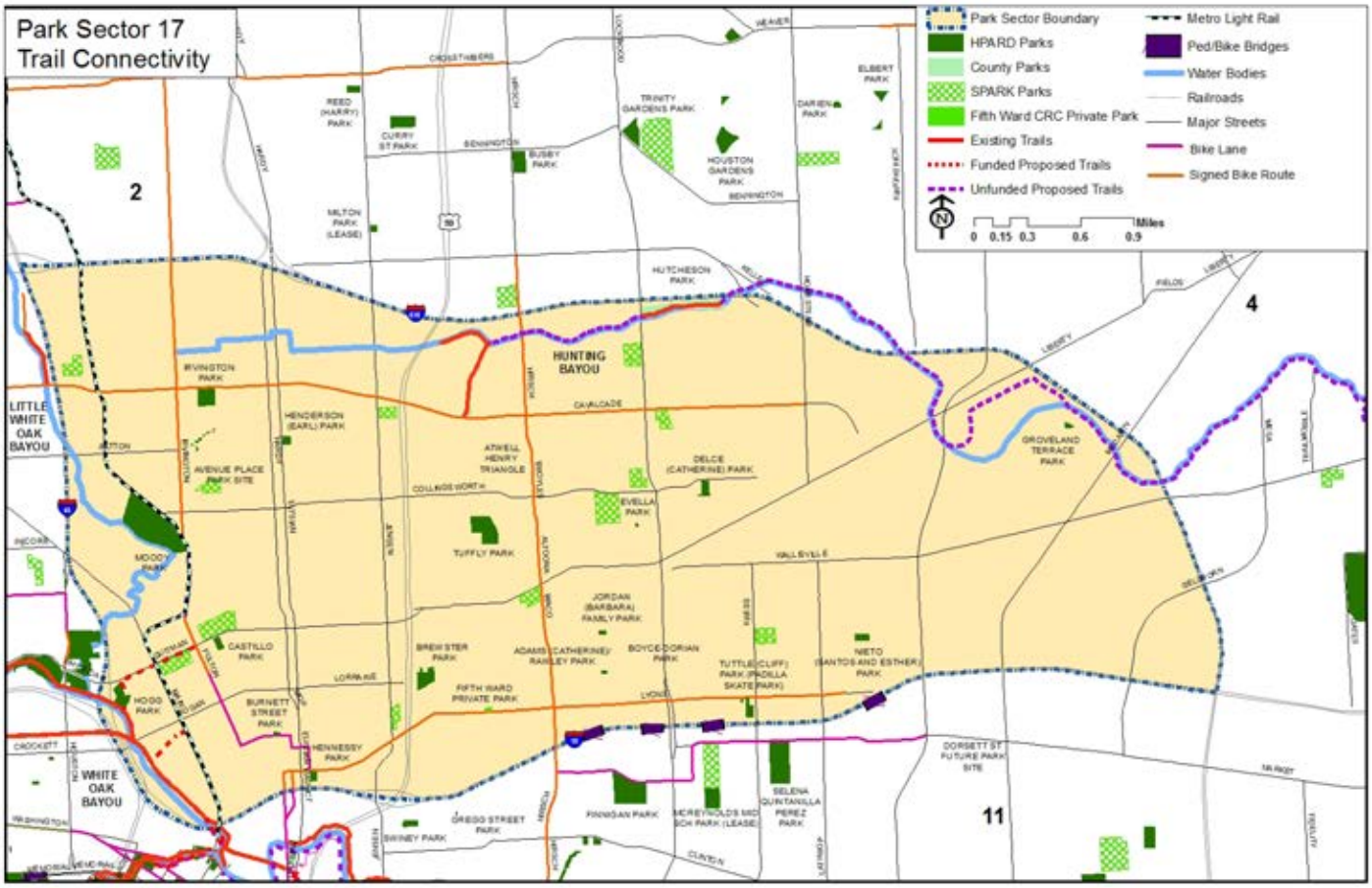


FIGURE 6. PARK SECTOR 17 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

A measure of sustainability, according to the "Measuring Sustainability: Project Houston" report, is the number of miles of Bayou Greenway Trails completed (Blackburn, 2009). At build-out, this Park Sector would have 6.7 miles of BG2020 trails (5.7 on Hunting Bayou, including the 1.1 mile just outside of Park Sector 17, and 1 mile on White Oak Bayou). So far, 2.2 miles or 33% of the BG2020 are existing and 0.95 miles are proposed from Hutcheson Park to Broyles (fork) and 3.6 miles from 610 to Hutcheson. To meet the standard of 0.2 miles of trails per 1,000 residents, this Park Sector would need an additional 5 miles of trails. The completion of Hunting Bayou trail (4.55 miles) would leave a need for 0.25 miles of trail.

Furthermore, a measure of connectivity between the light rail, bikeways, trails and parks would help us better understand gaps in the system for future trails and amenities, but as of now this analysis has not been completed. Through the TIGER grant, the Houston Heritage trail will connect to an existing network of on-street bike lanes and to the North rail line, providing a unique opportunity of transportation choices for residents in this area. Partnerships for maintenance responsibility of the Houston Heritage West Trail and the new trail connections with the TIRZ 21 – Hardy/Near Northside should be explored. Additional on-street connections should be made through residential streets that have low traffic volume, thus providing a safe route for bikers and pedestrians. There are four existing pedestrian TXDOT bridges crossing I-10 with different condition and safety challenges, but one or more may present an opportunity for north-south connectivity for bicyclists and pedestrians.

County Parks and Trails

County Park				
Facility Name	**Address**	**Street**	**Total Acres**	**Trail Length**
Boyce-Dorian Park* maintenance agreement	2000	Erastus	9.56	0.40
Hunting Bayou Hike & Bike Trail	Along	Bayou (610 to Cavalcade)	3.60	1.1
Hutcheson Park* maintenance agreement	5400	Lockwood	3.65	1.25
Leonel J. Castillo Community Center	13828	Corpus Christi	3.22	N/A
Mickey Leland Memorial Park	3701	Cavalcade	0.07	N/A
		Total HC Park Acreage	**20.1**	
		Total HC Trail Length		**2.75**

TABLE 6. TRAILS INTERNAL TO COUNTY PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 17

SPARK Parks

There are 10 Elementary Schools, one Middle School and one High School participating in the SPARK Program providing access to park space and a variety of amenities to the public. For the purpose of this Master Plan, these playgrounds will be assumed to serve the 5-12 year old population.

SPARK Parks				
Facility Name	**Address**	**Street**	**Total Acres***	**Amenities**
Concord Elementary School	5426	Cavalcade St	4.58	Playground
Crawford Elementary School	0	Schwartz St	3.16	Playground
Davis High School	1101	Quitman St	12.67	2 Tennis Courts, 0.25 mile track, 360' Football field
Dogan Elementary School	4202	Liberty Rd	5.12	Playground
Eliot Elementary School	6411	Laredo St	5.45	Playground
Fleming Middle School	4800	Collingsworth St	14.41	3 Half Basketball courts (uncovered), 0.25 mile track (lit)
Isaacs Elementary School	3830	Pickfair St	5.2	Playground
Jefferson Elementary School	5000	Sharman St	6.14	Playground
Kashmere Gardens Elementary School	4805	Lockwood Dr	6.94	Playground
Ketelsen Elementary School	0	Henry St	9.17	Playground
Looscan Elementary School	3800	Robertson St	4.94	Playground
Ross Elementary School	0	Jensen	3.74	Playground
Total Acres*			**81.52**	

TABLE 7. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 17 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

Open and Green Space

To determine level of service, the 2007 Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by The Trust for Public Land ParkScore™ Project. The table below shows the level of service (LOS) based on the 2007 HPARD Master Plan recommended standards of a number of acres per 1,000 people using the 2010 Census population. According to the HPARD recommended Standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 0.1 acres/1,000 people for a Pocket park, this Park Sector needs 2.69 acres of parkland. If Harris County park acreage is included when calculating the LOS, additional 0.01 acres of Neighborhood and 52.48 acres of Community Parks are needed in Sector 17 totaling 55.17 acres of these park types. The chart below does not list Regional Parks because generally Regional Parks serve the entire city. It is important to note that Herman Brown Park (Signature/Regional Park) is less than 1 mile from the eastern boundary of this Park Sector. The analysis for level of service and needs is shown on the table below.

Park Type	HPARD Park Number	HC Park Number	Other Providers	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
										Population	58,256	
Pocket Park (<1 acre)	5	1	1	2.57	0.07	0.5	3.14	0.1 ac/1,000 people	0.04	0.05	3.26	2.69
Neighborhood Park (1-15 acres)	11	4	0	38.5	20.03	0	58.25	1 ac/1,000 people	0.67	1.01	19.5	0
Community Park (16-150 acres)	1	0	0	34.9	0	0	34.90	1.5 ac/1,000 people	0.60	0.60	52.48	52.48
TOTAL	17	5	1	75.7	20.1	0.5	96.29				75.2	55.2

TABLE 9. HPARD LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

The only Community Park (16-150 acres, 5 mile service area) in this Park Sector is Moody Park (34.9 acres). However, Tuffly Park (11.32 acres), classified as a Neighborhood Park (1-5 acres, ½ mile service area), acts as a Community Park since it has facilities fitted for such park classification: community center, lit field, pool, and multi-use pavilion. Tuffly Community Center is located directly across from Scott Elementary and 0.4 miles from Dogan Elementary. The facilities condition report states that Tuffly is in fair condition, upgrading or replacing Tuffly Community Center should be considered. According to 2012 community center attendance by zip code, residents from zip codes northeast and south of this Park Sector participated in programs at Tuffly Community Center. Consideration should be given to the expansion of the park by acquiring some vacant lots adjacent to the property since it appears to serve the eastern portion of the Sector which contains roughly 55% of the population.

Another way to measure the level of service provided is by looking at a "walkable" distance (½ mile radius) from the park regardless of the size of the park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts and Decision Makers and used 1/4 of a mile distance of persons living from a park as a as the as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King, 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ Project study mapped the park needs of the City of Houston based on accessibility by density, age and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL), 2012). The map shown here (Figure 6) was produced using data provided by the Trust for Public Land (TPL) ParkScore™ Project. The areas in green on the map below represent that areas within ½ mile of existing parks not blocked by freeways or major roads; the hatched area represents the service area of a publicly accessible (owned, developed and maintained by the Fifth Ward Redevelopment Corporation) park that was not accounted for when the Trust for Public Land (TPL) ParkScore™ data was produced. It is clear that this new park (not owned or managed by HPARD) has met a need for this area. Roughly 20% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector. The hatched areas are not accounted in the percentage for the areas served at this time, so the service area percentage is underestimated.

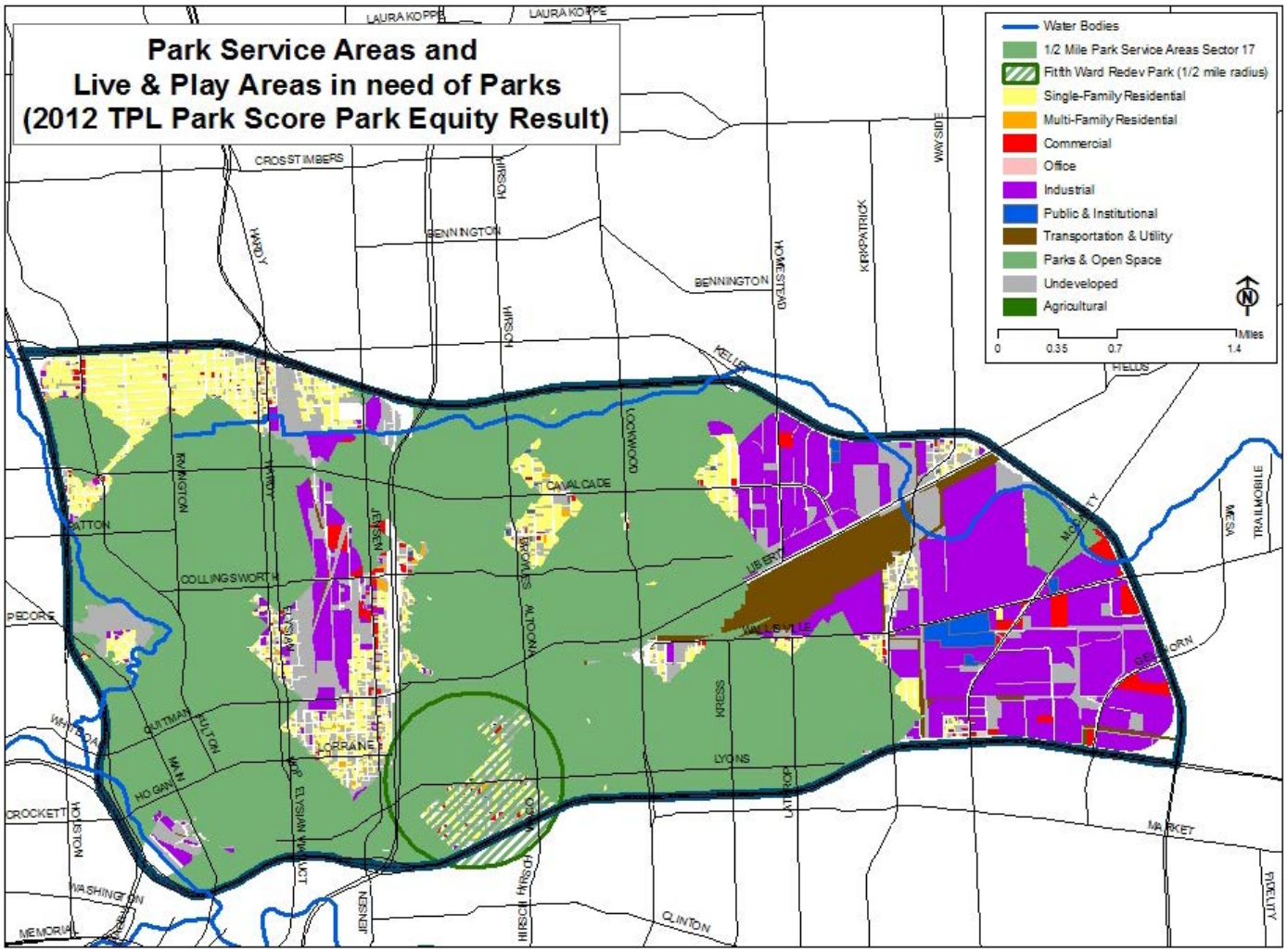


FIGURE 7. PARK SECTOR 17 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

The construction of the Leonel J. Castillo Community Center was completed early 2014. This community center serves a growing population in this area where most of the growth is expected to occur with the advent of the Hardy Yards Redevelopment, the North Rail line and the connections to the hike and bike trail in the area.

AMENITIES AND SERVICES

This map shows some of the community services available in this area: community centers, multi-service and health centers, transit centers, schools, libraries, and YMCAs. Two HPARD community centers are located in this Park Sector: Moody and Tuffly Community Centers. The Fifth Ward Multi-Service Center, which is owned and operated by the City of Houston is also located in this Park Sector and is a prime community gathering place. It contains meeting rooms, a gymnasium, and an auditorium. A number of nonprofit organizations have office space in the facility. The Kashmere Multi-Service Center is also in this Park Sector, which is owned and operated by the City of Houston, and includes meeting space, an auditorium, and a community garden managed by Neighborhood volunteers and gardeners. The nearby J. W. Peavy Senior Center is owned by the City of Houston and operated by Neighborhood Centers, Inc. This center provides services for elderly citizens and also is home to a Neighborhood-managed community garden. The Julia C. Hester House is an institution and community center that provides educational, recreational, and social services to the Fifth Ward community. It provides a variety of services that include after-school programs for children, senior services, adult education, and case management. The MD Anderson YMCA is also located in this Park Sector. Two active Community Development Corporations operate in this area to provide affordable housing and other services: Avenue Community Development Corporation and Fifth Ward Redevelopment Corporation. The libraries in this Park Sector provide computer access, community meeting space, and educational programs.

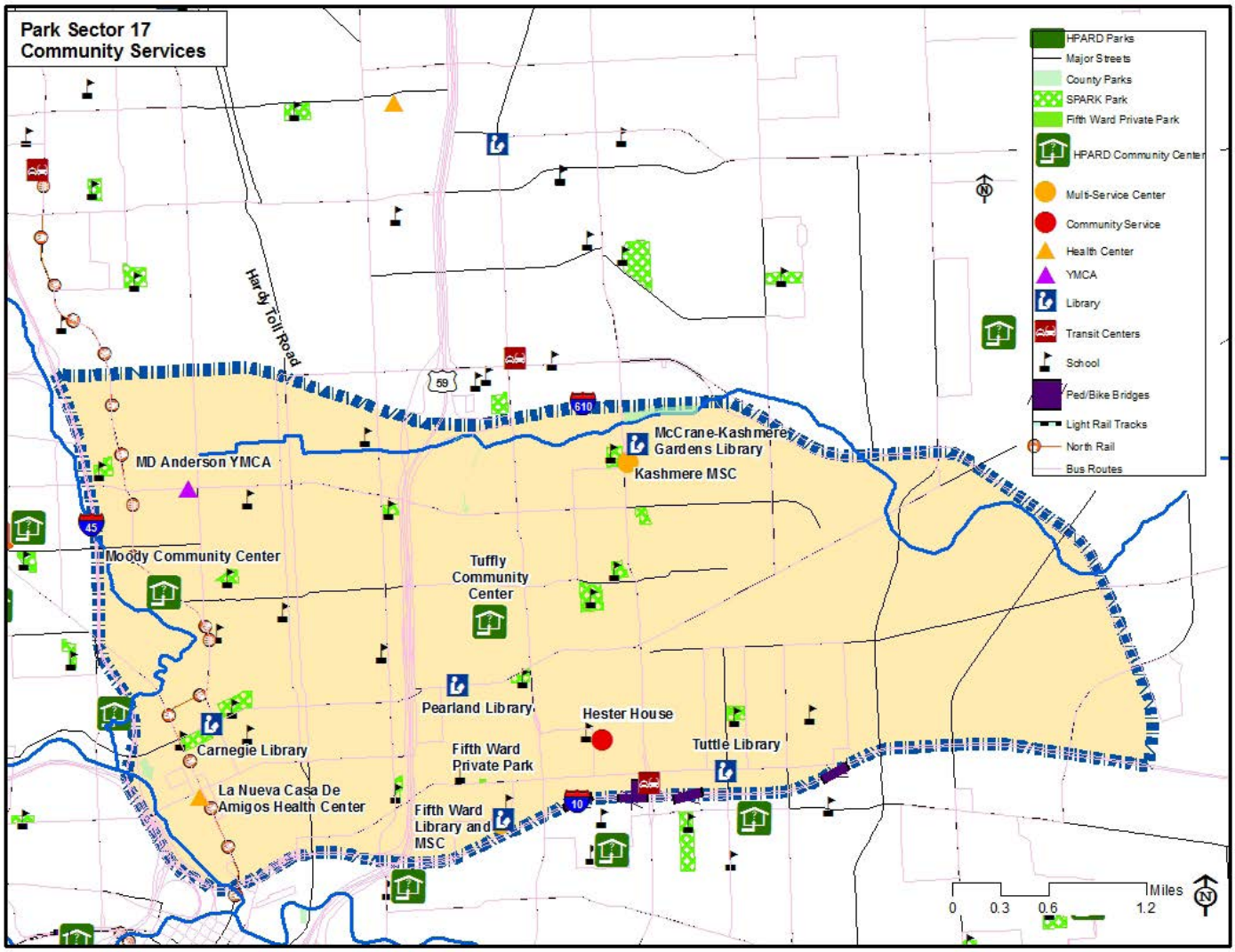


FIGURE 8. PARK SECTOR 17 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities - Level of Service

The 2007 HPARD Master Plan standards by amenity have been applied to the amenities in Park Sector 17. The standard for each amenity is then compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to the recommended HPARD standards, Harris County and other providers are meeting the needs of the residents for the following facilities: playgrounds, picnic shelters, basketball courts, skate parks, community centers, swimming pools, outdoor spray grounds and baseball fields. This Park Sector is deficient in trails (5 miles), tennis courts (3), Volleyball Courts (2), Softball fields (1) and Soccer fields (2). The current parks in this Park Sector would not support the number of fields shown in the Total Inventory Needs, so land acquisition (preferably land to expand current parks or purchase of large tracts) to develop some of these amenities.

	HPARD	Harris County	Other Providers	Total	Recommended HPARD Standard		Current HPARD Level of Service		Current Total Inventory Level of Service		HPARD NEEDS Over/ Under Service	Total Inventory NEEDS Over/ Under Standard
						Population		58,256				
Playgrounds	14	2	11	27	1	4,000	1	4,161	1	2,158	1	-12
Picnic Shelters	9	1	0	10	1	10,000	1	6,473	1	5,826	-3	-10
Trails	3.65	2.75	0.5	6.9	0.2	1,000	0.06	1,000	0.12	1,000	8	5
Outdoor Basketball Courts	16	0	0	16	1	12,000	1	3,641	1	3,641	-11	-11
Tennis	2	1	0	3	1	10,000	1	29,128	1	19,419	4	3
Volleyball	0	0	0	0	1	50,000	0	58,256	0	58,256	2	2
Dog Parks	0	0	0	0	1	100,000	0	58,256	0	58,256	1	1
Skate Parks	1	0	0	1	1	100,000	1	58,256	1	58,256	0	0
Community Centers	2	1	1	4	1	30,000	1	29,128	1	14,564	0	-2
Swimming Pools	2	0	0	2	1	50,000	1	29,128	1	29,128	-1	-1
Outdoor Spraygrounds	1	0	1	2	1	100,000	1	58,256	1	29,128	0	-1
Baseball (Lit & Unlit)	7	0	0	7	1 field	30,000	1	19,419	1	8,322	-5	-5
Softball (Lit & Unlit)	1	0	0	1	1 field	30,000	1	58,256	1	58,256	1	1
Soccer (Lit & Unlit)	4	0	0	4	1 field	10,000	1	14,564	1	14,564	2	2

TABLE 9. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 17
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- HPARD has accepted a parkland dedication (Avenue Place Future Park Site) and a new playground and trail were installed in this park space in 2015.
- BG2020 Trails along Hunting Bayou will be completed by 2020
- Brewster Park playground was replaced in 2013.
- Irvington Park will receive new lighting for its basketball pavilion.
- Moody Park Community Center renovation was completed in 2014 and is receiving a new playground in 2015.
- Nieto (Santos and Esther) sprayground was replaced in March 2013.
- Tuttle (Cliff) Park parking lot expansion (2011 Annual Report).

SUPPLEMENTAL MAPS:

Park Sector 17 Council Districts

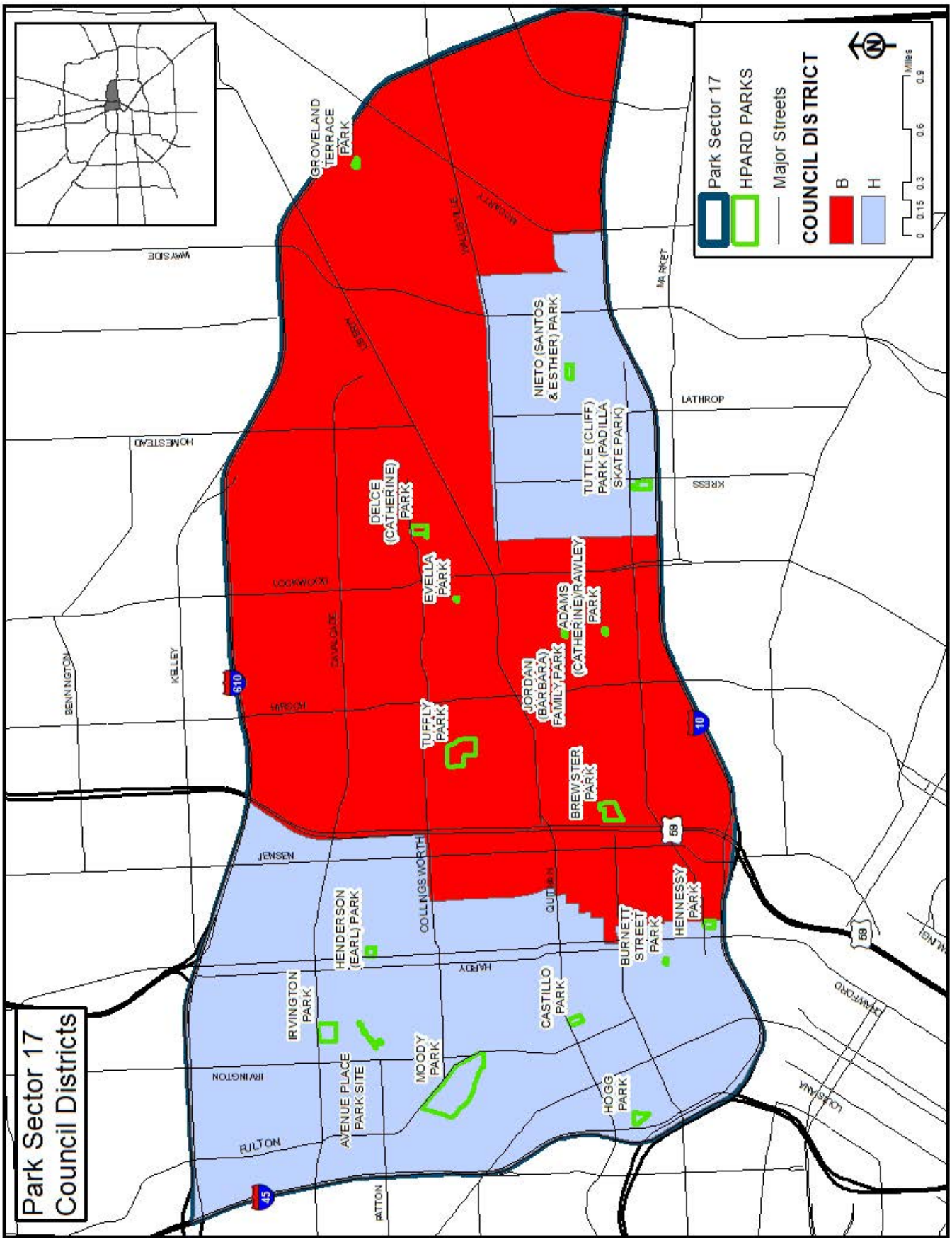


FIGURE 1: PARK SECTOR 17 COUNCIL DISTRICTS

Park Sector 17 Tax Increment Reinvestment Zone (TIRZs) and Management Districts

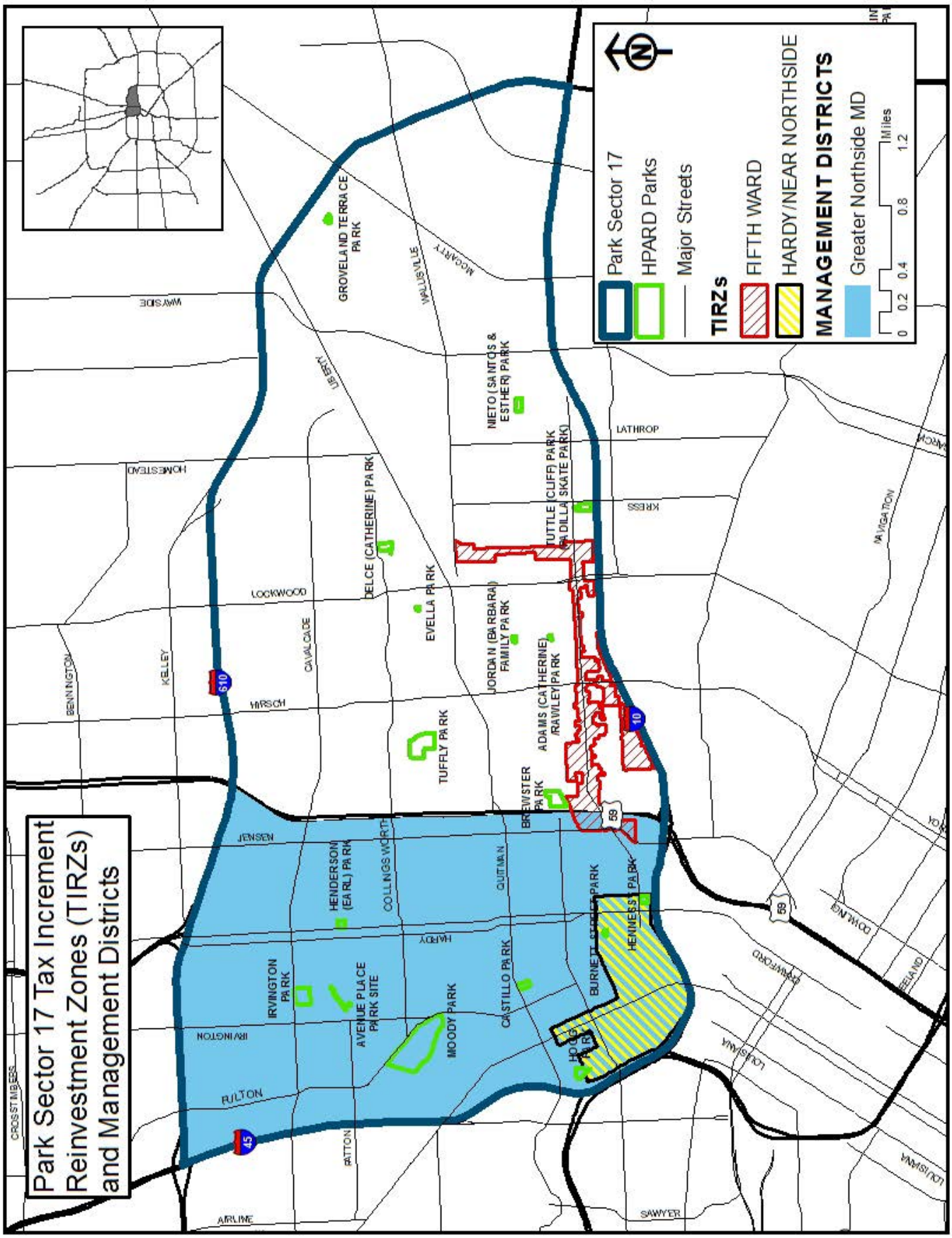


FIGURE 2: PARK SECTOR 17 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 17 Super neighborhoods

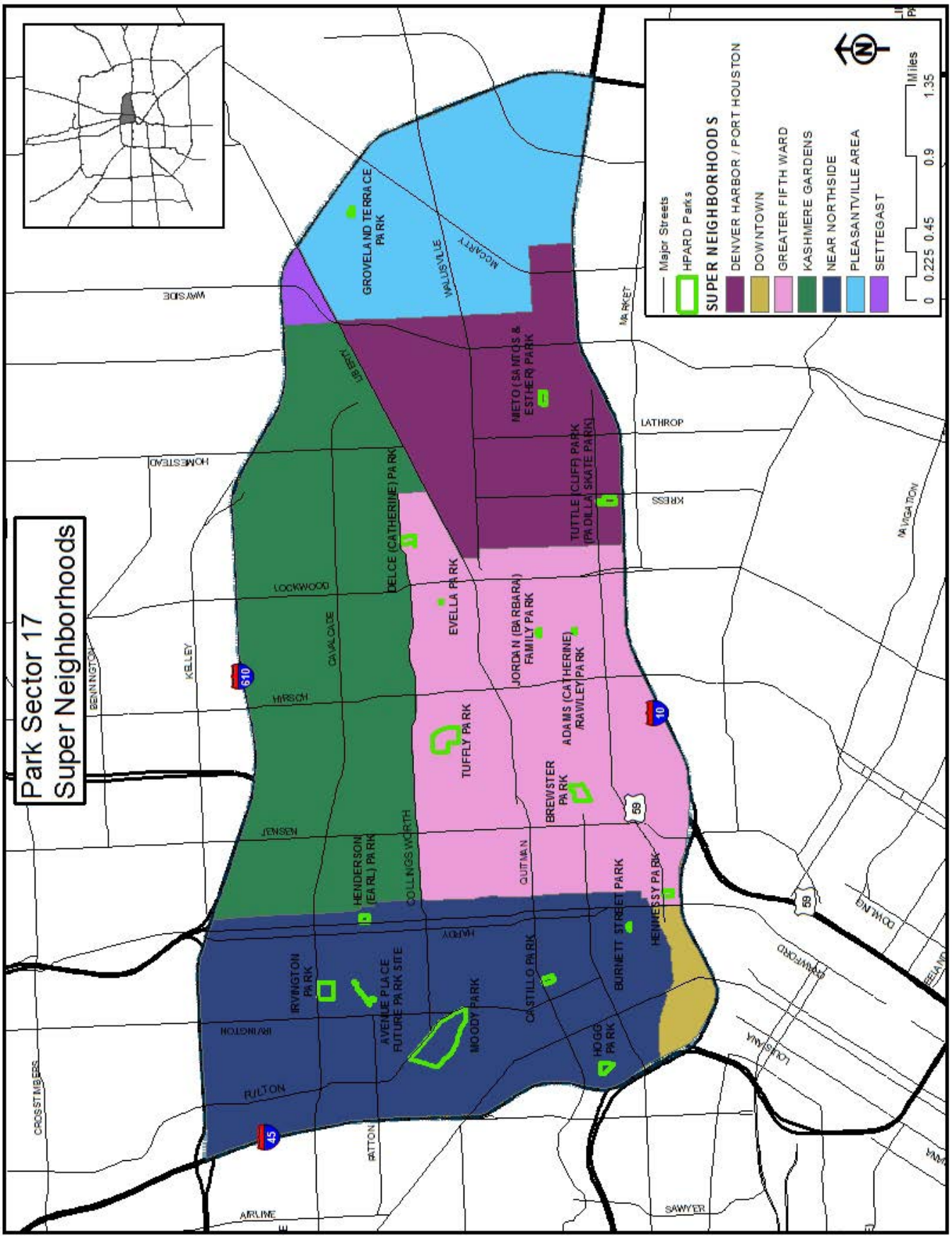


FIGURE 3: PARK SECTOR 17 SUPER NEIGHBORHOODS

Park Sector 17 Floodplain Areas

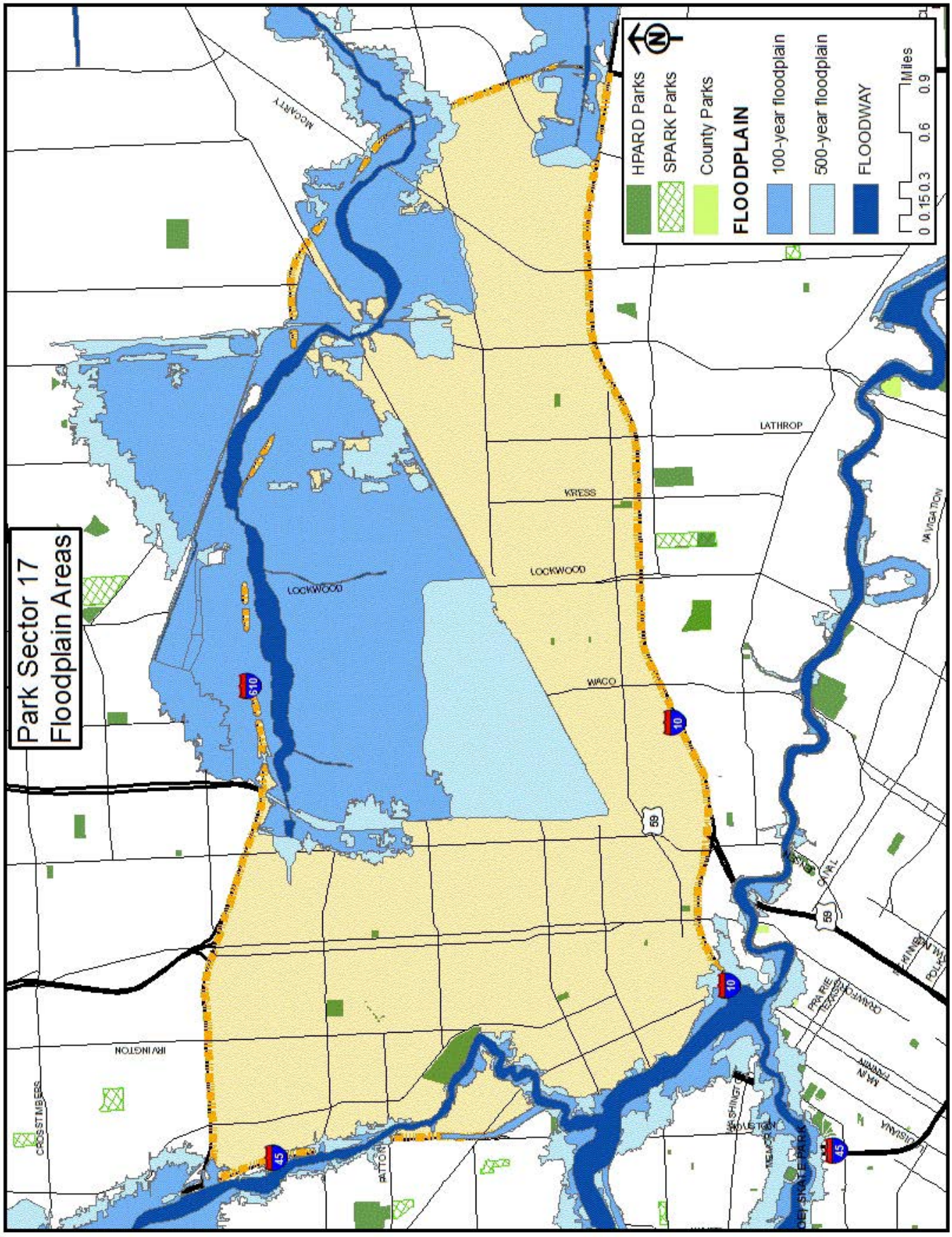


FIGURE 4: PARK SECTOR 17 FLOODPLAIN AREAS

PARK SECTOR 18

PARK SECTOR 18 SUMMARY

PARK SECTOR 18 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and the Trust for Public Land ParkScore™ Project), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Acquire new parkland
2. Develop new park facilities
3. Revitalize existing parks
4. Develop Neighborhood connections to parks and trails
5. Develop partnerships with the school system and other entities
6. Preserve environmentally sensitive areas

RECOMMENDATIONS

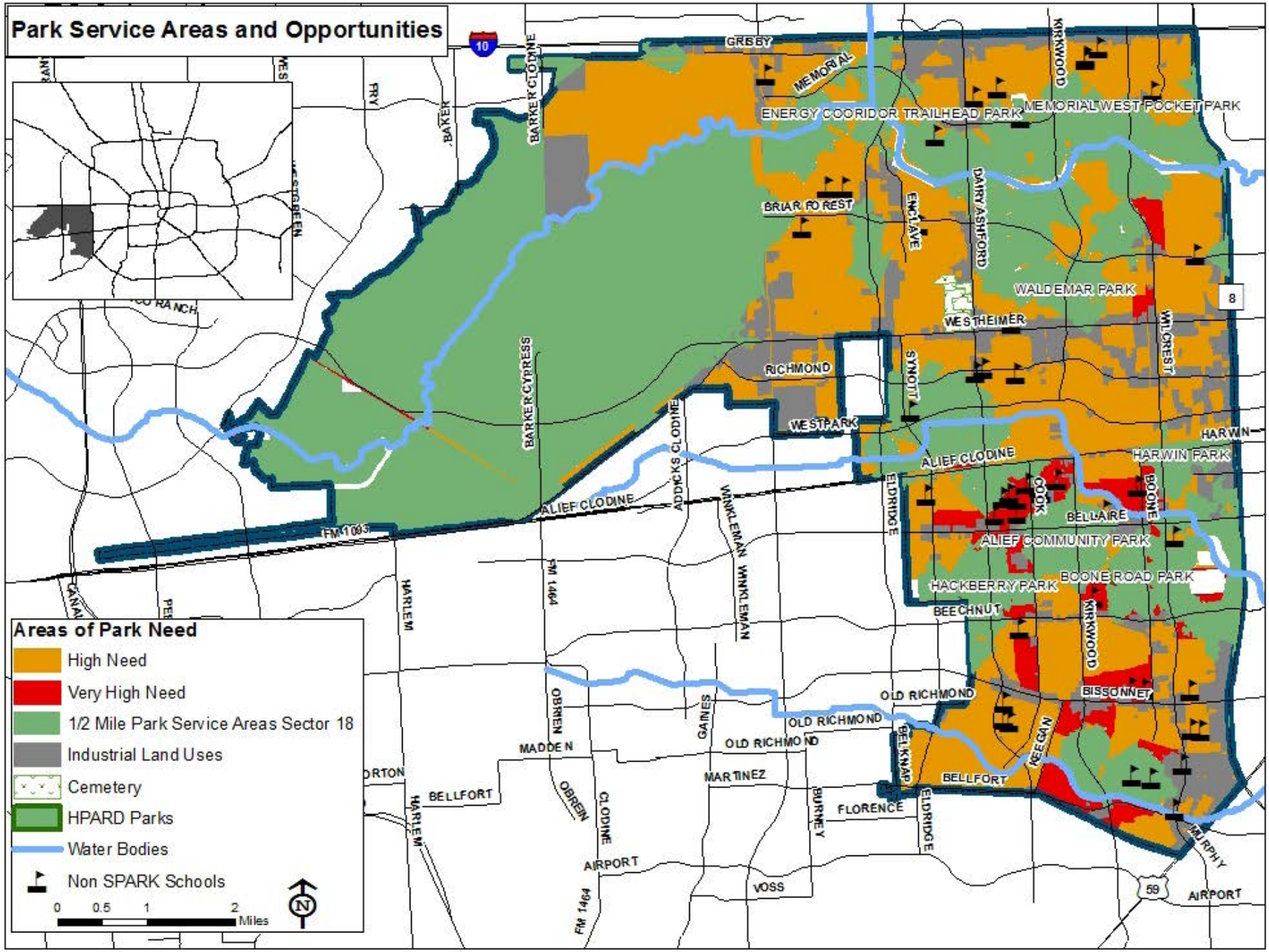
The parks in Park Sector 18 that have the highest need for redevelopment are Boone Road Park and Waldemar Park.

In this Park Sector 401 acres of parkland are needed. Even though the need analysis for parkland shows a great need for parkland, this analysis only accounts for Pocket, Neighborhood and Community parks. This Park Sector is unusual in that it is served by four Regional Harris County parks: Terry Hershey Park, George Bush Park, Art Storey Park and Archbishop Joseph A. Fiorenza Park. Nonetheless there is still a need for smaller scale parks in areas of need. This is the second most populous Park Sector that carries 11.3% of the total population in the City of Houston. There are areas of need throughout almost the entire Park Sector.

Furthermore, the population in west Houston is projected to grow immensely in coming years. Schools not participating in the SPARK School Park Program (Non-SPARK schools) should be explored as potential future partnerships for park space. Schools are located in many of the areas of need and very high need for parkland and opportunities seem widespread. Because of the great need for parkland and playgrounds in this Park Sector, a partnership with the SPARK Park program and Houston Independent School District (HISD) would be highly beneficial.

This Park Sector is deficient in playgrounds, picnic shelters, trails, outdoor basketball courts, tennis courts, volleyball courts, dog parks, skate parks, community centers, swimming pools, spraygrounds and softball fields. In the 2014 survey, the top three priorities of residents in Park Sector 18 when asked what recreational needs existed in their Neighborhood were: hike, bike and walk trails, open space and natural areas, and picnic areas and pavilions. Three bayous, Buffalo, Brays and Keegans Bayous traverse this Park Sector and there are approximately 18 miles of trails planned for these bayous through the Bayou Greenways Initiative (BG 2020). The West Houston Trails Master Plan (WHTMP) proposes a north-south 8.7 mile spine trail along a utility corridor (Wycliff Highline Spine Trail) which would begin north of I-10 and connect the trail along Buffalo Bayou inside Terry Hershey Park to Brays Bayou and would fill a gap in need for park and open space. Other services and amenities that residents asked for in the write-in portion of the survey were: fitness programs, outdoor environmental education and camping, fishing activities, senior programming, archery programs, youth nature programs, tai chi and yoga, community gardens, and youth ages 0-6 programming. Over 28% of the population in this Park Sector is obese as compared to City of Houston at 30%. Based on these health metrics, partnerships should be pursued to increase levels of physical activity and programming that promotes healthy living should be explored.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Online Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector


Park Service Areas and Opportunities
Areas of Park Need
High Need
Very High Need
1/2 Mile Park Service Areas Sector 18
Industrial Land Uses
Cemetery
HPARD Parks
Water Bodies
Non SPARK Schools
0 0.5 1 2 Miles
GREEN
MEMORIAL
ENERGY CORRIDOR TRAILHEAD PARK
MEMORIAL WEST POCKET PARK
KIRKWOOD
BRIAR FOREST
ENCLAVE
DAIRY ASHFORD
WALDEMAR PARK
WESTHEIMER
WILCREST
RICHMOND
SYNOTT
WESTPARK
HARWIN
HARWIN PARK
ALIEF CLODINE
ELDRIDGE
COOK
BOONE
BELLAIRE
ALIEF COMMUNITY PARK
BOONE ROAD PARK
HACKBERRY PARK
BEECHNUT
BISSONNET
OLD RICHMOND
BELKNAP
KEEGAN
BELLFORT
FLORENCE
MURPHY
AIRPORT
VOSS
MARTINEZ
MADDEN
OBRIEN
GAINES
HARLEM
WINKLEMAN
ADDICKS CLODINE
BARKER CYPRESS
FM 1093
FM 1464
BARKER CLODINE
FRY
BAKER
10
8
59

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Energy Corridor Trailhead Park		N. Eldridge/ Buffalo Bayou	0.79	N/A
Kendall Community Center	609	N. Eldridge	0.08	N/A
Memorial West Pocket Park (undeveloped)	13922	Memorial Drive	0.72	N/A
	Total HPARD Pocket Park Acreage		**1.60**	
Neighborhood Parks				
Harwin Park	11305	Harwin	8.83	0.70
Waldemar Park	11700	Waldemar	3.95	0.19
	Total HPARD Neighborhood Park Acreage		**12.80**	
Community Parks				
Alief Community Park	11903	Bellaire Blvd	37.30	0.53
Boone Road Park	7700	Boone Rd.	27.38	1.06
Hackberry Park	7777	South Dairy Ashford	22.44	0.70
	Total HPARD Community Park Acreage		**87.10**	
Urban Trails / Shared Use Paths				
West Side Hike and Bike Trail				1.90
	Total HPARD Park Acreage		**101.40**	
	Total HPARD Trail Length			**5.08**

EXISTING COMMUNITY CENTERS AND POOLS

Community Centers and Pool Facilities	Address	Zip Code	Agency Responsible
Alief Community Center and Pool	11903 Bellaire Blvd	77072	HPARD
Hackberry Community Center	7777 South Dairy Ashford	77072	HPARD
Kendall Community Center	603 East 35th	77079	HPARD

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger). The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Roughly 39% of this Park Sector is not served by a park, which is lower than that of the entire city (55%). Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains 9,060 acres of parkland (Harris County, HPARD & other providers). Of the 37,443 acres in this Park Sector, 24% of this acreage is parkland.
- There are approximately 240,000 residents, making this the second most populous Park Sector that carries 11.3% of the total population in the City of Houston. It also has the second largest concentration of Asian-Americans (14%) in the city.
- Even though this Park Sector is served by George Bush Park there is a need for 401 acres of Neighborhood and Community parks. This is based on the current population (2010 US Census) of the Park Sector and needs assessment done for Pocket, Neighborhood and Community parks (number of acres per 1,000 people).
- The Trust for Public Land ParkScore™ shows high need in northwest and central portion of the Park Sector.
- Park Sector 18 has a total of 32 miles of trails.
- H-GAC population projections estimate that this area will add over 58,000 residents by 2040. To meet the parkland needs for the estimated 2040 population an additional 175 acres of parkland will be needed.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and amenity standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	60	24	50	20	24	5	2	2	8	5	2	8	8	55
2015 Existing	24	18	37*	3	6	0	0	0	3	1	1	8	0	55
2015 Needed	36	6	13	17	18	5	2	2	5	4	1	-	8	-
2040 Needed	15	6	12	5	6	1	1	-	2	1	1	2	2	-

* This number includes 5 miles of trails inside the city limits along Brays Bayou under the Bayou Greenways 2020 (BG2020 Initiative).

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.
2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.
3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.
4. Annual Operation & Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$123,000,000	401 Acres- $100,000,000	$11,000,000	$15,000,000
2040	$46,000,000	175 Acres- $42,000,000	$74,000,000	$4,000,000
TOTAL 2040	$169,000,000	576 Acres- $142,000,000	$85,000,000	$19,000,000

PARK SECTOR PROFILE 18

LOCATION AND POLITICAL BOUNDARIES

Park Sector 18 is located west of Beltway 8, south of I-10, and north of 59.
Park Sector Size: 37,443 acres or 59 square miles
Population: 240,553 people, Density: 4,169 persons/sq. mi.
Political Boundaries within Park Sector 18:

- Council Districts: F, G, and J
- Super neighborhoods contained in this Park Sector: Eldridge/ West Oaks, Memorial, Briar Forest Area, Westchase, and Alief
- TIRZ: Village Enclaves and Southwest Houston
- Management Districts: HCID 4 (Energy Corridor), Westchase, and International Management District

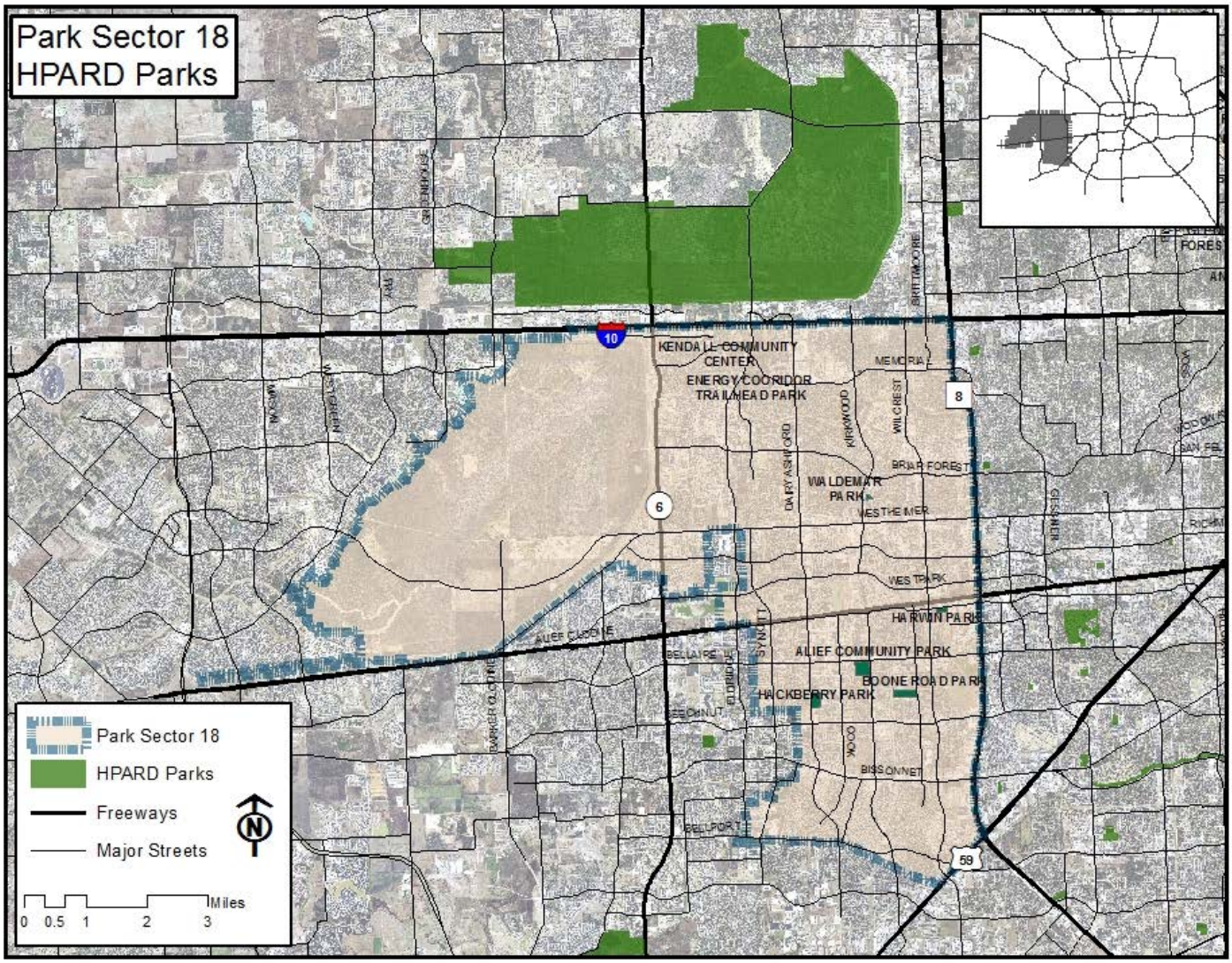


FIGURE 1. PARK SECTOR 18 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 18 Population	Park Sector 18 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**240,553**	-	**2,119,831**	-
Hispanic or Latino	78,710	32.7%	919,668	43.8%
Non-Hispanic White	69,238	28.8%	537,901	25.6%
Non-Hispanic Black	53,760	22.3%	485,956	23.1%
Non-Hispanic American-Indian	428	0.2%	126,098	6.1%
Non-Hispanic Asian	33,585	14.0%		
Non-Hispanic Hawaiian or Pacific Islander	84	0.0%		
Non-Hispanic Some Other Race	4,748	2.0%	26,828	1.3%

TABLE 1. PARK SECTOR 18 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains 11.3% of the population of Houston. The majority (33%) of residents are Hispanic/Latinos, followed Non-Hispanic Whites (29%), Non-Hispanic Blacks (22%), and Asian-Americans (14%). The majority of the population lives along the freeways that comprise the boundaries of the Park Sector. The densest areas in the Park Sector are in Alief, south of the Westpark Tollway, while the Memorial and Briarforest areas are the least densely populated parts of the Park Sector.

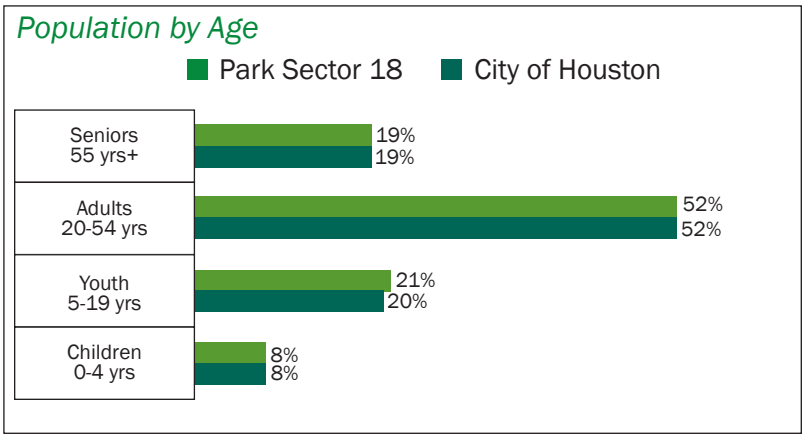


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 18 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that all of the age groups in this Park Sector closely mirror these present throughout the entire City of Houston. The population of individuals 19 and under comprises nearly a third of the population. Over one-half of the population is between the ages of 20-54 years and the population 55 years+ accounts for 19% or 46,953 individuals. These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 18 Population	PS 18 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	18,814	8%	8%	166,066	8%	8%
Youth	5-9 yrs	17,304	7%	21%	148,843	7%	21%
	10-14 yrs	16,376	7%		135,622	7%	
	15-19 yrs	16,221	7%		140,673	7%	
Adults	20-34 yrs	60,128	25%	52%	539,348	26%	52%
	35-44 yrs	34,732	14%		286,117	14%	
	45-54 yrs	32,789	13%		265,060	13%	
Senior	55-64 yrs	25,307	10%	19%	204,852	10%	19%
	65 yrs +	21,646	9%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 18 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 104,913 housing units in this Park Sector. The percent of vacant housing in Park Sector 18 (11.2%) is slightly lower as compared to the vacancy rates for the entire city (12.3%). Home ownership for this Park Sector (37.4%) is slightly lower than that of the City of Houston (39.7%) and the share of renters (51.3%) is higher than that of the city's (47.1%).

Income

The median household income for this Park Sector ($50,741) is somewhat higher than that of the City of Houston ($48,322). 46,339 households, or 49%, in this area have an income below the Houston median household income.

Educational Attainment

Within Park Sector 18 the percent (38%) of individuals 25+ years of age with a Bachelor's degree or higher is significantly higher than the relative percent for the entire City of Houston (28%). The percentage of individuals with only a 5th- 12th grade education (12%) is lower than that of the rest of the City of Houston (20%). The other trends of educational attainment in this Park Sector are similar to those for the City of Houston.

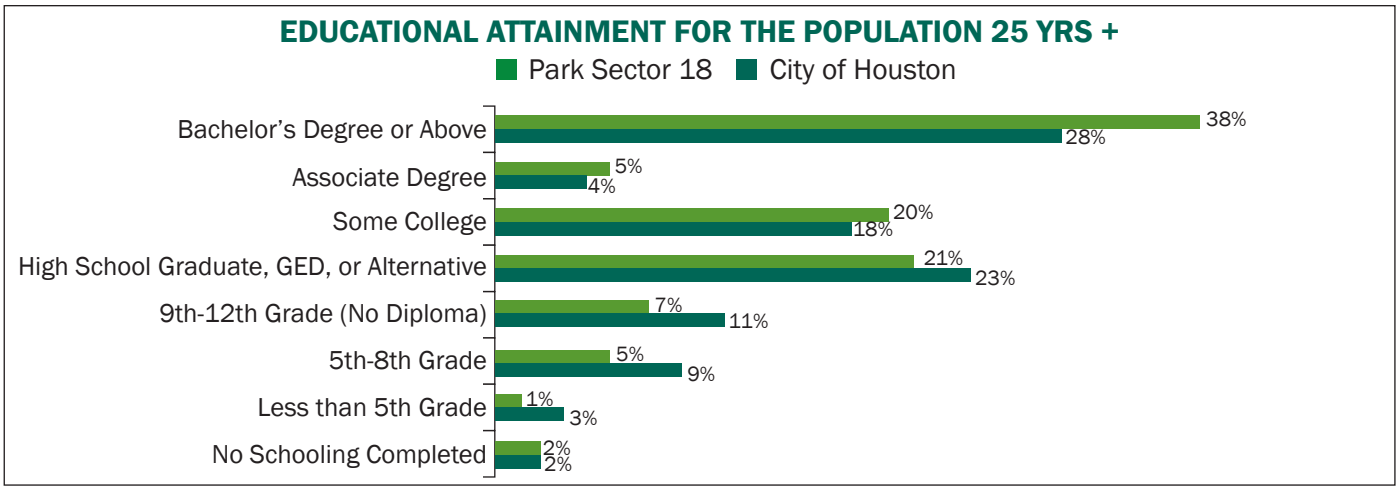


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 28.9% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. Even though the percent of obese population is lower, the percent of overweight population in this area is higher and may present an opportunity for intervention. The survey also showed that 11.7% of the adult population received a diagnosis of diabetes by a professional, which is about the same as the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that 29.8% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is lower than that of the entire city (32%). The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%.

Finally, the survey shows that 16.7% of the population does not engage in moderate physical activity at all, which is about the lower than the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

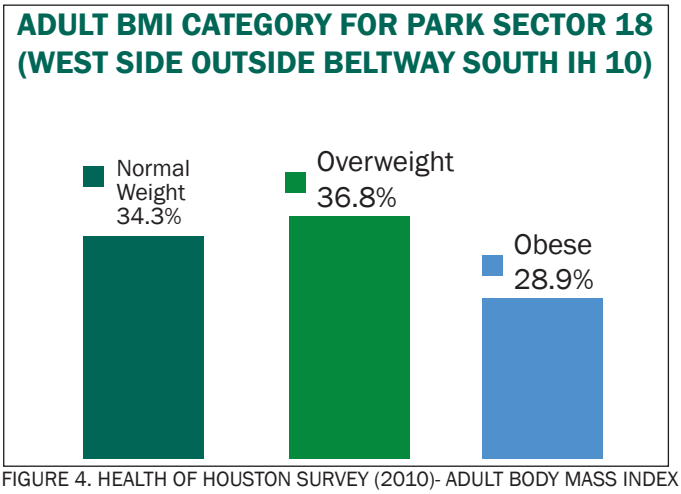


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	16.70
1	9.90
2	12.50
3	21.60
4	9.50
5	9.60
6	5.60
7	14.60

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	44,537	78.2%	7,239	26.5%
Multi-Family	7,327	12.9%	2,139	7.8%
Commercial	1,154	2.0%	2,336	8.5%
Office	277	0.5%	842	3.1%
Industrial	319	0.6%	867	3.2%
Public & Institutional	359	0.6%	1,944	7.1%
Transportation	245	0.4%	843	3.1%
Parks & Open Space	813	2.8%	8,945	32.7%
Undeveloped	1,582	2.8%	1,820	6.7%
Agriculture Production	290	0.5%	350	1.3%
TOTAL	56,977	100%	27,326	100%

TABLE 4. LAND USE BY DESCRIPTION (2013 HCAD)

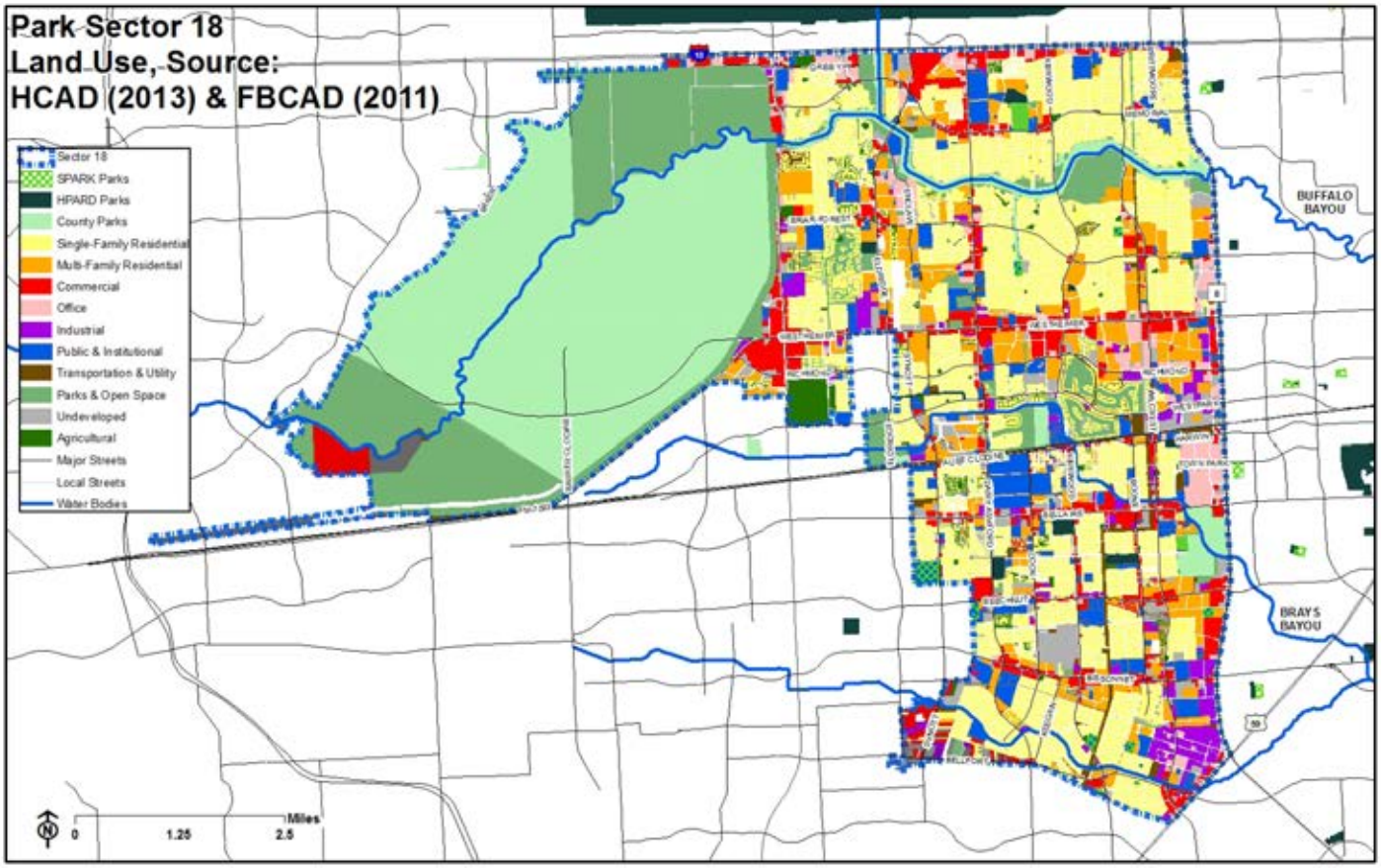


FIGURE 5. PARK SECTOR 18 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

Park Sector 18 straddles both Harris and Fort Bend County. A significant percent of the acreage (32.7%) is Parks and Open Space due to the large area occupied by George Bush Park (Harris County) and additional acreage managed in the Barker Reservoir. Single-family and multi-family residential make up 91% of the parcels and 34% of the acreage of this Park Sector.

HPARD PARKS AND TRAILS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Energy Corridor Trailhead Park		N. Eldridge/ Buffalo Bayou	0.79	N/A
Kendall Community Center	609	N. Eldridge	0.08	N/A
Memorial West Pocket Park (undeveloped)	13922	Memorial Drive	0.72	N/A
Total HPARD Pocket Park Acreage			**1.60**	
Neighborhood Parks				
Harwin Park	11305	Harwin	8.83	0.70
Waldemar Park	11700	Waldemar	3.95	0.19
Total HPARD Neighborhood Park Acreage			**12.8**	
Community Parks				
Alief Community Park	11903	Bellaire Blvd	37.30	0.53
Boone Road Park	7700	Boone Rd.	27.38	1.06
Hackberry Park	7777	South Dairy Ashford	22.44	0.7
Total HPARD Community Park Acreage			**87.10**	
Urban Trails / Shared Use Paths				
West Side Hike and Bike Trail				1.9
	Total HPARD Park Acreage		**101.4**	
	Total HPARD Trail Length			**5.08**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 18

The Houston Parks and Recreation Department operates 8 parks in the area accounting for 101 acres of parkland. Harris County maintains and operates 11 parks in this Park Sector, totaling 8,958 acres.

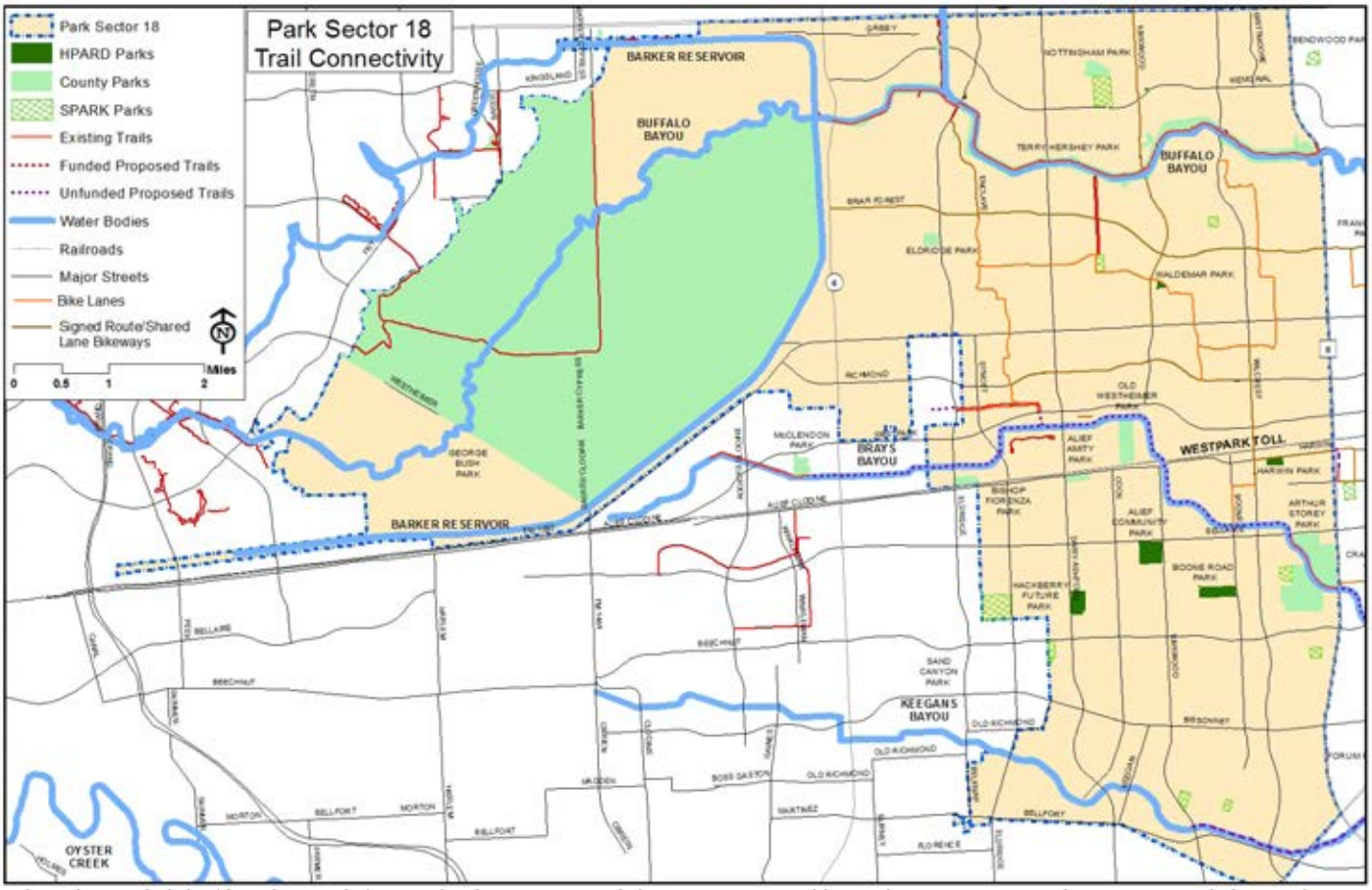


FIGURE 6. PARK SECTOR 18 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

The 10.83 miles of trails that run along Buffalo Bayou in Harris County Terry Hershey Park provide an excellent east/west connection in the northern portion of the Park Sector. There is a connector to the Terry Hershey trail that runs from Ashford Elementary School and is connected to east/west on-street bike lanes. While the Harris County George Bush Park is not under HPARD's purview, if the trail along Buffalo Bayou in this park were to be continued, a complete east/west connection would be established in the northern part of the Park Sector. There are several segments of already existing trail along Brays Bayou in this Park Sector; also, there is an unfunded segment (5 miles) Bayou Greenway 2020 trails planned for this along this bayou between Arthur Storey Park and McClendon Park. Connecting the trail along Brays Bayou would connect three Harris County parks and the West Side Hike and Bike trail in this Park Sector and serve areas in Alief which currently have trails only inside parks, but few or no connecting trails, greenways, shared paths or bike lanes. Keegan's Bayou travels east-west along the southern border of this Park Sector; a 3-mile trail (1.3 miles inside this Park Sector) from Gessner to Kirkwood began construction in 2013. Once this segment is completed, it will provide residents in this area with non-vehicular access to the entire Brays Bayou trail system, Columbia Tap trail, the light rail system, the Medical Center, and Hermann Park and Downtown.

There is an existing utility easement running north-south between Wilcrest and Kirkwood which should be explored as a connector between Brays and Keegan Bayous. The West Houston Trails Master Plan (WHTMP) proposes a north-south 8.7 mile spine trail along a utility corridor (Wycliff Highline Spine Trail) which would begin north of I-10 and connect the trail along Buffalo Bayou inside Terry Hershey to Brays Bayou. The Eldridge Spine Trail (from Briar Forest south to Bellaire) proposed by the (WHTMP) connects Brays Bayou, the Energy Corridor and gives access to single-family, multi-family, retail and restaurants in the area.

County Parks and Trails

County Park				
Facility Name	**Address**	**Street**	**Total Acres**	**Trail Length**
Alief Amity Park	12509	Alief Clodine Road	11.00	0.17
Arthur Storey Park	7400	W. Sam Houston Parkway South	208.36	1.77
Beeler Memorial Park	1150	Enclave Parkway	1.00	0.06
Archbishop Joseph A. Fiorenza Park	4025	Eldridge Parkway	349.70	0.60
George Bush Park	16756	Westheimer Parkway	7800	11.36
Molly Pryor Memorial Orchard	15200	Memorial Drive	1.10	0.60
Nottingham Park	14205	Kimberley Lane	22.50	0.75
Old Westheimer Park			48.00	N/A
Ray Miller Park	1800	Eldridge Parkway	15.00	0.64
Sgt. JR Hatch Sport Park	17525	Katy Freeway	1.80	0.08
Terry Hershey Park	15200	Memorial Drive	500.00	10.83
		Total HC Park Acreage	**8,958.46**	
		Total HC Trail Length		**26.26**

TABLE 6. TRAILS INTERNAL TO COUNTY PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 18

SPARK Parks

There are 9 Elementary Schools participating in the SPARK Program providing access to park space and a variety of amenities to the public.

SPARK Parks				
Facility Name	**Address**	**Street**	**Total Acres***	**Amenities**
Alexander Elementary School	8500	Brookwulf Dr	9.39	Playground
Ashford Elementary School	1815	Shannon Valley	9.58	Playground
Askew Elementary School	11200	Wood Lodge Dr	6.70	Playground, 0.15 mi Trail, Unlit Soccer Field
Chambers Elementary School	10700	Carvel Ln	12.15	Playground, 0.22 mi Trail, Picnic Pavilion
Cummings Elementary School	10455	Kirkwood Rd	10.04	Playground, 0.24 mi Trail
Landis Elementary School	10255	Spice	8.07	Playground, 2 Outdoor Basketball Courts, Swing Set
Liestman Elementary School	7610	Synott Rd	48.91	Playground, Swing Set
Meadow Wood Elementary School	14230	Memorial Dr	38.68	Playground, 0.22 mi Trail, Picnic Pavilion
Smith Elementary School	11300	Stancliff	5.21	Playground, Swing Set, Picnic Pavilion
Total Acres*			**148.73**	

TABLE 7. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 18 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

Open and Green Space

To determine level of service the 2007 Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by The Trust for Public Land ParkScore™ Project. The table below shows the level of service (LOS) based on the 2007 HPARD recommended standards of a number of acres per 1,000 people using the 2010 Census population. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 0.005 acres/1,000 people for a Pocket Park, this Park Sector meets the standard. This Park Sector is lacking 198 acres of Neighborhood Parks and 203 acres of Community Parks for a total of 401 acres of parkland. The acreage for Regional Park will be accounted for when the city-wide analysis.

Park Type	HPARD Park Number	HC Park Number	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
									Population	240,553	
Pocket Park (<1 acre)	3	0	1.6	0	0	1.51	0.005 ac/1,000 people	0.01	0.01	-0.39	-0.39
Neighborhood Park (1-15 acres)	2	5	12.8	29.9	0	42.68	1 ac/1,000 people	0.05	0.18	227.77	197.87
Community Park (16-150 acres)	3	2	87.12	70.5	0	157.62	1.5 ac/1,000 people	0.36	0.66	273.71	203.21
Regional Parks (151+ acres)	0	4	0	8,858.1	0	8,862.06	8.0 ac/1,000 people				
TOTAL	8	11	101.41	8,958.5	0	201.81	19 acres/1,000			501.48	401.08

TABLE 8. HPARD LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Another way to measure the level of service provided by parks is by looking at a "walkable" distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ Project study mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project.

The areas in green on the map below represent the area within ½ mile of existing parks not blocked by freeways or major roads. Roughly 39% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, which is dramatically lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector. The construction of trails along Brays and Keegans Bayous will have an obvious impact on access. Connectors into the trail bayou systems for Buffalo, Brays and Keegan will be key in servicing those areas within ½ miles radius from the trails.

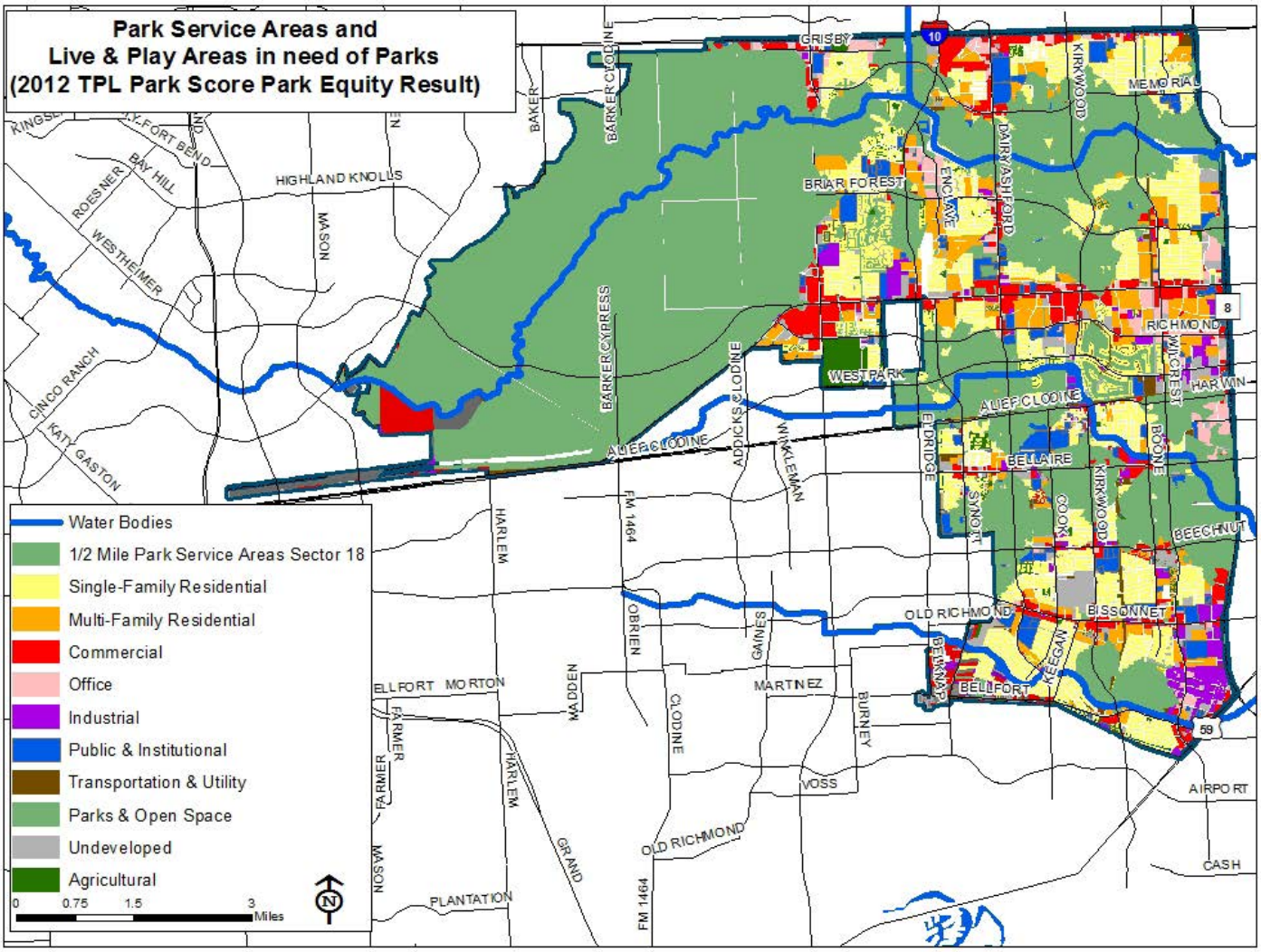


FIGURE 7. PARK SECTOR 18 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

AMENITIES AND SERVICES

Figure 7 shows some of the community services available in this Park Sector: community centers, libraries, and community service providers. There are three HPARD community centers located in this Park Sector: Alief, Kendall, and Hackberry Community Centers. The Kendall Community Center is located inside the Kendall Library.

The West Houston Community Center is a charitable organization that provides space for drug and alcohol abuse support programs to meet, such as: Alcoholics Anonymous, Cocaine Anonymous, and Palmer Drug Abuse Program.
The libraries in this Park Sector provide computer access, community meeting space and educational programs.

The Addicks Park and Ride is located just north of I-10 east of Highway 6 and the Mission Bend Park and Ride is just south of Alief Clodine west of Eldridge. The libraries in this Park Sector provide computer access, community meeting space, and educational programs.

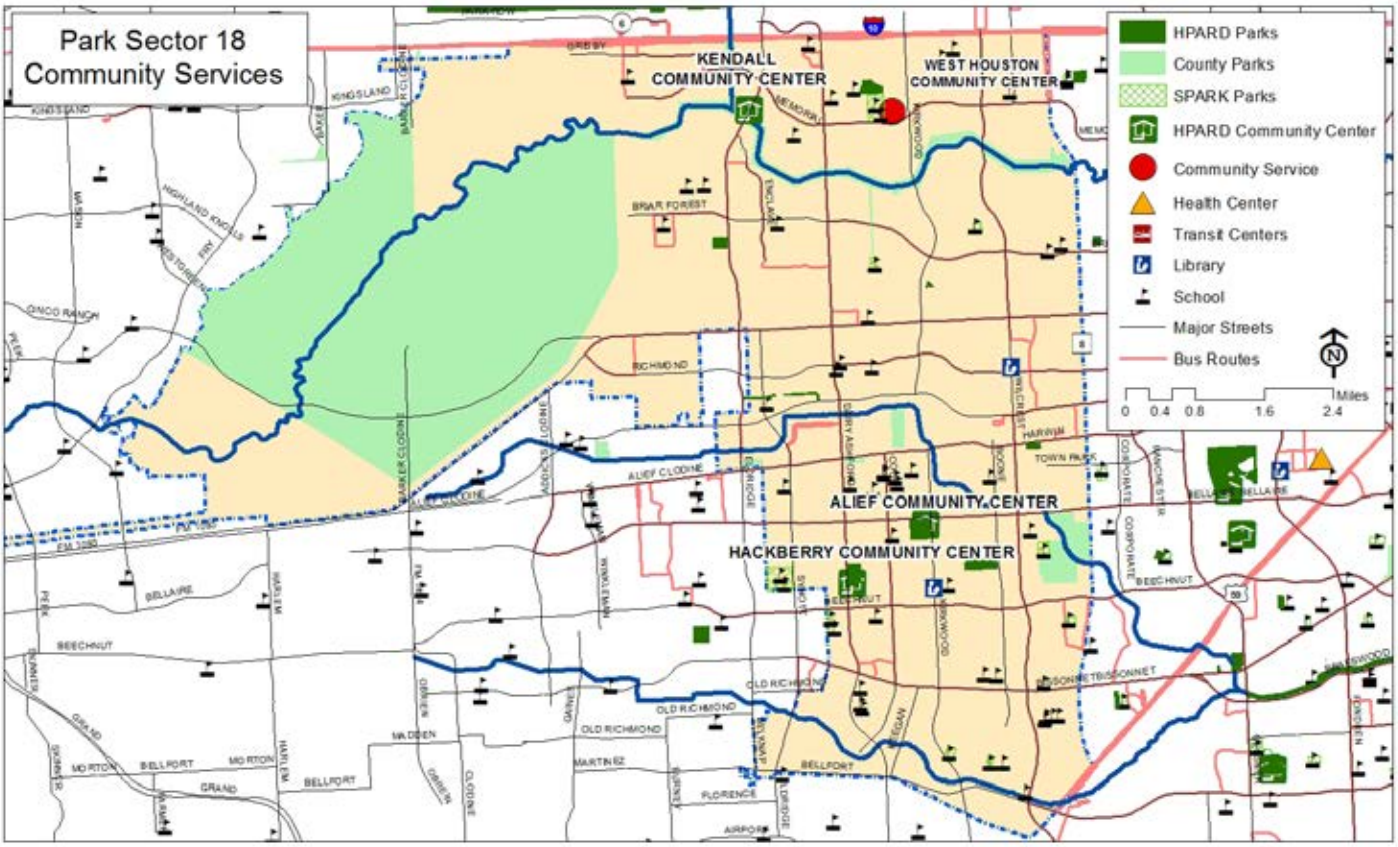


FIGURE 8. PARK SECTOR 18 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities - Level of Service

The HPARD standards by amenity have been applied to the amenities in Park Sector 18. The standard for each amenity is then compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these recommended HPARD standards, HPARD, Harris County and other providers are meeting the needs of the residents for baseball and soccer fields. This Park Sector is deficient in (36) playgrounds, picnic shelters (6), outdoor basketball courts (17), tennis courts (18), volleyball courts (5) dog parks (2), skate parks (2), community centers (5), swimming pools (4), outdoor spray grounds (1), and softball fields (8).

The apparent significant shortage of playgrounds (36) should be explored and the possibility of additional SPARK Parks could help as part of the strategy to meet the needs in this Park Sector. There is potential for establishment of additional SPARK parks in this area based on the existence and location of schools. Five of the eight properties managed by HPARD have playgrounds; of the properties which do not have playgrounds, one is undeveloped, and the other two seem too small to provide a playground.

	HPARD	Harris County	Other Providers	Total	Recommended HPARD Standard		Current HPARD Level of Service		Current Total Inventory Level of Service		HPARD NEEDS Over/ Under Service	Total Inventory NEEDS Over/ Under Standard
							Population		240,553			
Playgrounds	6	9	9	24	1	4,000	1	40,092	1	10,023	54	36
Picnic Shelters	5	10	3	18	1	10,000	1	48,111	1	13,364	19	6
Trails	5.1	26.3	0.83	32	0.2	1,000	0.02	1,000	0.13	1,000	43	16
Outdoor Basketball Courts	1	0	2	3	1	12,000	1	240,553	1	80,184	19	17
Tennis	4	2	0	6	1	10,000	1	60,138	1	40,092	20	18
Volleyball	0	0	0	0	1	50,000	0	240,553	0	240,553	5	5
Dog Parks	0	0	0	0	1	100,000	0	240,553	0	240,553	2	2
Skate Parks	0	0	0	0	1	100,000	0	240,553	0	240,553	2	2
Community Centers	3	0	0	3	1	30,000	1	80,184	1	80,184	5	5
Swimming Pools	1	0	0	1	1	50,000	1	240,553	1	240,553	4	4
Outdoor Spraygrounds	1	0	0	1	1	100,000	1	240,553	1	240,553	1	1
Baseball (Lit & Unlit)	2	6	0	8	1 field	30,000	1	120,277	1	30,069	6	0
Softball (Lit & Unlit)	0	0	0	0	1 field	30,000	0	240,553	0	240,553	8	8
Soccer (Lit & Unlit)	7	47	1	55	1 field	10,000	1	34,365	1	4,374	17	-31

TABLE 9. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 18
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- Alief Park: A new hike and bike trail was installed in June 2011.
- Harwin Park: In August 2012 a project was completed that included a new walking trail, accessible parking spaces with an accessible ramp, parking lot striping, accessible signage, site furnishings, and drainage improvements.
- Kendall Community Center: In 2011, a new library and community center were built.
- The West Side Hike and Bike trail was replaced in 2014.

SUPPLEMENTAL MAPS:

Park Sector 18 Council Districts

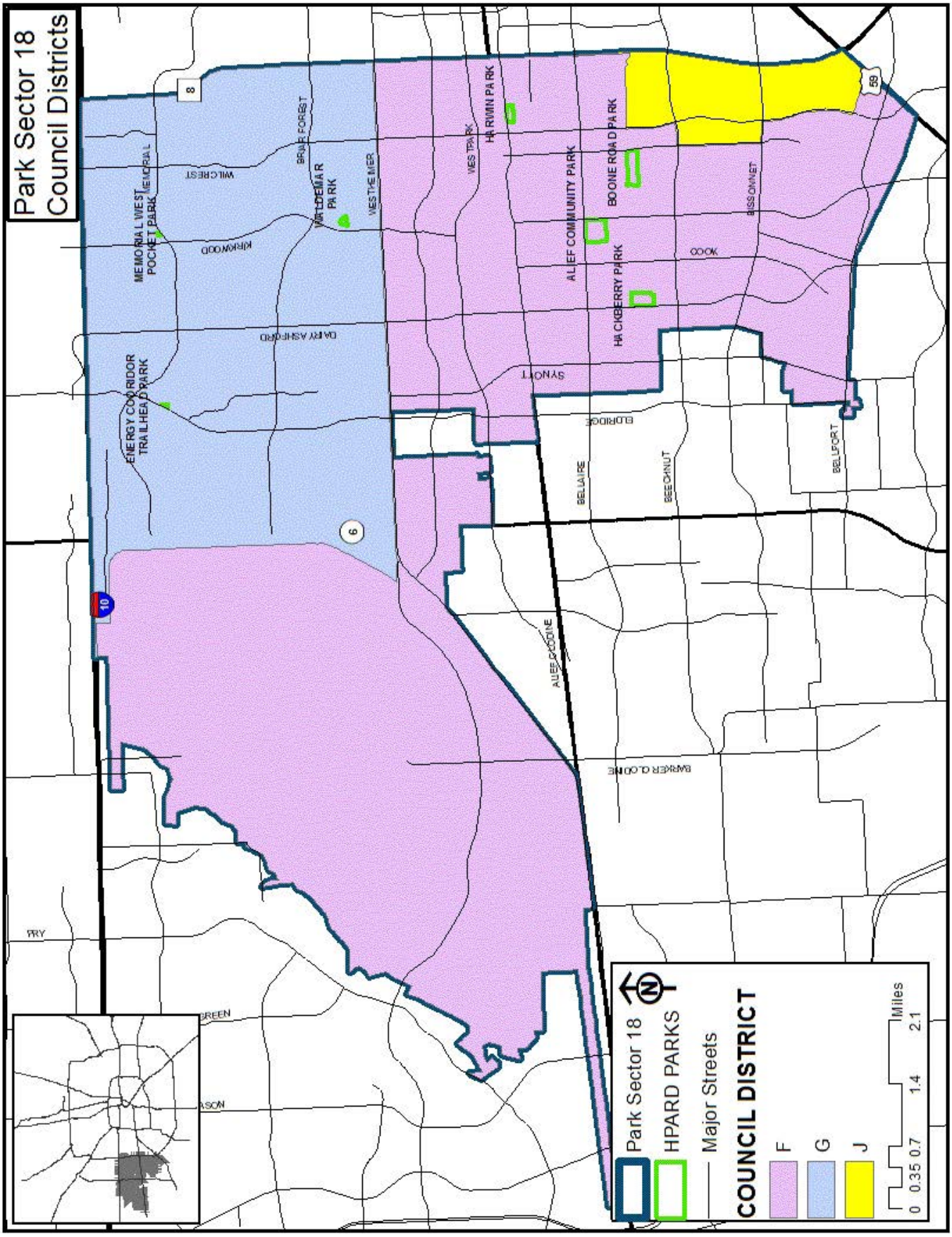


FIGURE 1: PARK SECTOR 18 COUNCIL DISTRICTS

Park Sector 18 Tax Increment Reinvestment Zone (TIRZs) and Management Districts

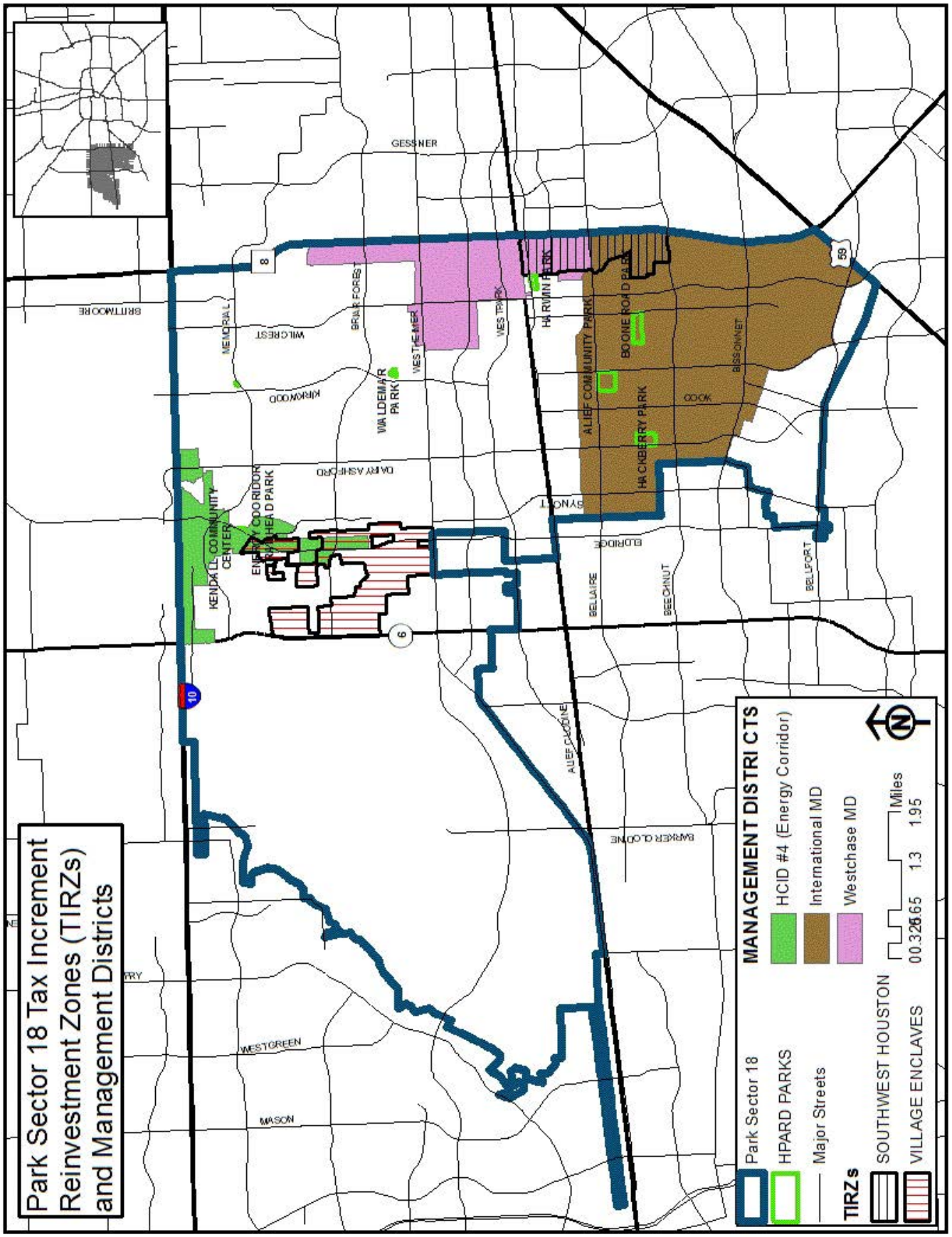


FIGURE 2: PARK SECTOR 18 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 18 Super neighborhoods

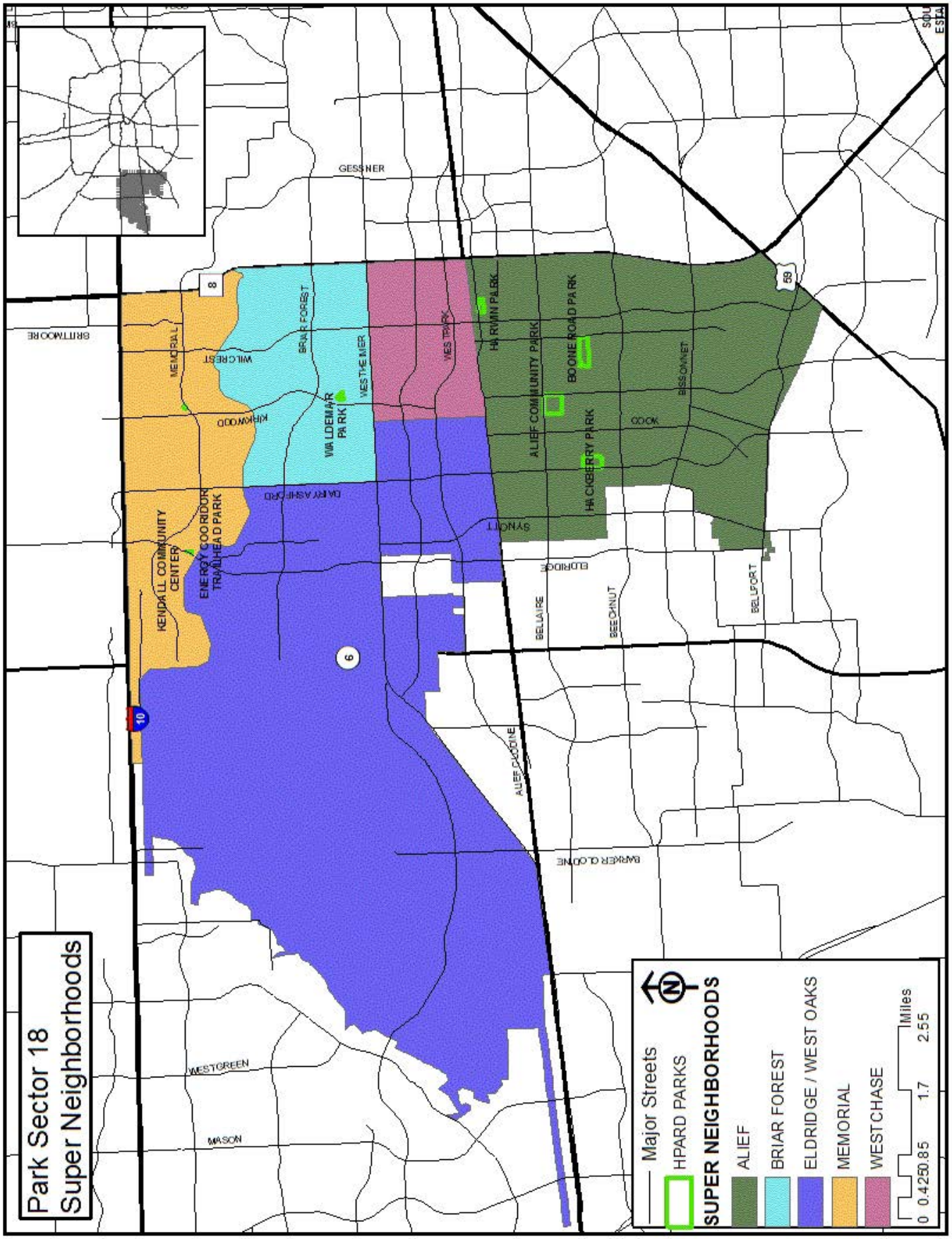


FIGURE 3: PARK SECTOR 18 SUPER NEIGHBORHOODS

Park Sector 18 Floodplain Areas

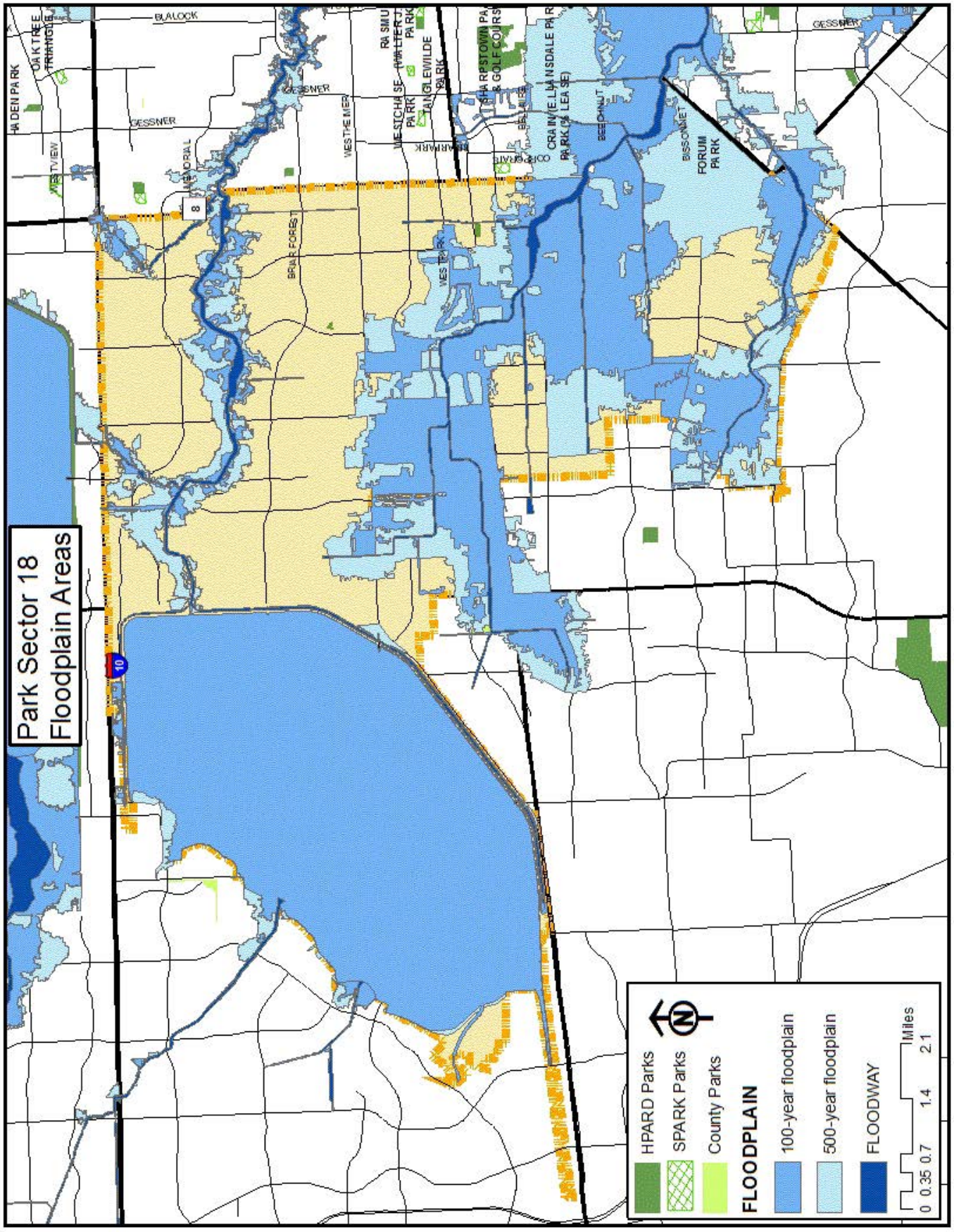


FIGURE 4: PARK SECTOR 18 FLOODPLAIN AREAS

PARK SECTOR 19

PARK SECTOR 19 SUMMARY

PARK SECTOR 19 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and TPL ParkScore™), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Develop Neighborhood connections to parks and trails
2. Revitalize existing parks
3. Develop new park facilities
4. Develop partnerships with the school system and other entities
5. Acquire new parkland
6. Preserve environmentally sensitive areas

RECOMMENDATIONS

There is only one park, Cullen Park, in this Park Sector. There is no need for additional parkland in this Park Sector based on the current population. However, additional connections for accessibility to Cullen Park from the neighboring residential areas are necessary. There are 13 miles of trails in Park Sector 19. With the extension of Terry Hershey trail north of I-10 and the trail to Cullen Park there are more opportunities for connectivity and additional trails around the Reservoir. The West Houston Trails Master Plan identified the need for several trail connections on the western portion of Cullen Park where some of the amenities of Cullen Park are located, as well as along South Mayde Creek and Langham Creek.

Existing equipment at Cullen Park should be targeted for renovation or replacement, such as the sprayground and playgrounds. This Park Sector is deficient in outdoor basketball courts, volleyball courts, community centers, and swimming pools.

In the 2014 survey, the top three priorities of residents in Park Sector 19 when asked what recreational needs existed in their Neighborhood were: hike, bike and walk trails, open space and natural areas, and amphitheater/performing arts space. Other services and amenities that residents asked for in the write-in portion of the survey were: teen enrichment and volunteer programs, youth nature programs, fitness programs, adult tennis programs, archery programs, fishing activities, dance or theater programs, disc or frisbee golf, and senior programming. Over 36% of the population is obese compared to 30.1% for the City of Houston. Based on this health profile, partnerships focused on increasing physical activity levels and programming that promote healthy living should be explored.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector

Park Service Areas and Opportunities
Areas of Park Need
High Need
Very High Need
HPARD Parks
1/2 Mile Park Service Area
Industrial Land Uses
Water Bodies
0 0.2 0.4 0.8 1.2 Miles
GESSNER
TANNER
KEMPWOOD
HAMMERLY
WESTVIEW
BRITTMOORE
WILCREST
KIRKWOOD
ELDRIDGE
LITTLE YORK
GULF BANK
HEMPSTEAD
SENATE
CULLEN PARK (LEASE)
GROESCHKE
PATTERSON
PARK ROW
GRIGBY
MEMORIAL
SAUMS
GREENHOUSE
MORTON
BAKER
QUEENSTON
FM 529

EXISTING COMMUNITY CENTERS AND POOLS

Facility Name	Address	Street	Total Acres	Trail Length
Regional Parks				
Cullen Park (Lease)	19008/ 18203	Saums/Groeschke	9,269.82	*7.30
Old Katy Hike and Bike Trail				2.30
	Total HPARD Regional Park Acreage		**9,269.82**	
	Total HPARD Trail Length			**9.60**

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area of public parks (city or county).

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger). The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Roughly 10% of this Park Sector is not served by a park, which is dramatically lower than that of the entire city (55%).

PARK SECTOR FACTS

- This Park Sector contains 12,350 acres of parkland (Harris County, HPARD & other providers). Of the 17,969 acres in this Park Sector, 69% of this acreage is parkland.
- There are roughly 15,000 residents.
- No need for additional parkland is identified in this Park Sector
- H-GAC population projections estimate that this area will add over 15,000 residents by 2040.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	7	14	13	2	2	1	1	1	1	1	1	16	4	33
2015 Existing	7	14	13	1	2	0	1	1	0	0	1	16	4	33
2015 Needed	-	-	-	1	-	1	-	-	1	1	-	-	-	-
2040 Needed	-	-	-	1	-	1	-	-	1	-	-	-	-	-

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.
2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.
3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.
4. Annual Operation & Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation per resident in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$5,000,000	0 Acres- $0	$5,500,000	$1,000,000
2040	$7,500,000	0 Acres- $0	$15,000,000	$1,000,000
TOTAL 2040	$12,500,000	0 Acres- $0	$20,500,000	$2,000,000

PARK SECTOR PROFILE 19

LOCATION AND POLITICAL BOUNDARIES

Park Sector 19 is located north of I-10, west of Beltway 8, and southwest of 290.
Park Sector Size: 17,969 acres or 28 square miles
Population: 14,722 people, Density: 526 persons/sq. mi., excluding Addicks Reservoir (Cullen & George Bush Parks) the density is 736 persons/sq.mi.
Political Boundaries within Park Sector 19:

- Council District: A
- Super neighborhoods contained in this Park Sector: Addicks Park Ten, Spring Branch West, Westbranch, Memorial, and Carverdale
- TIRZ: N/A
- Management Districts: Energy Corridor, Spring Branch

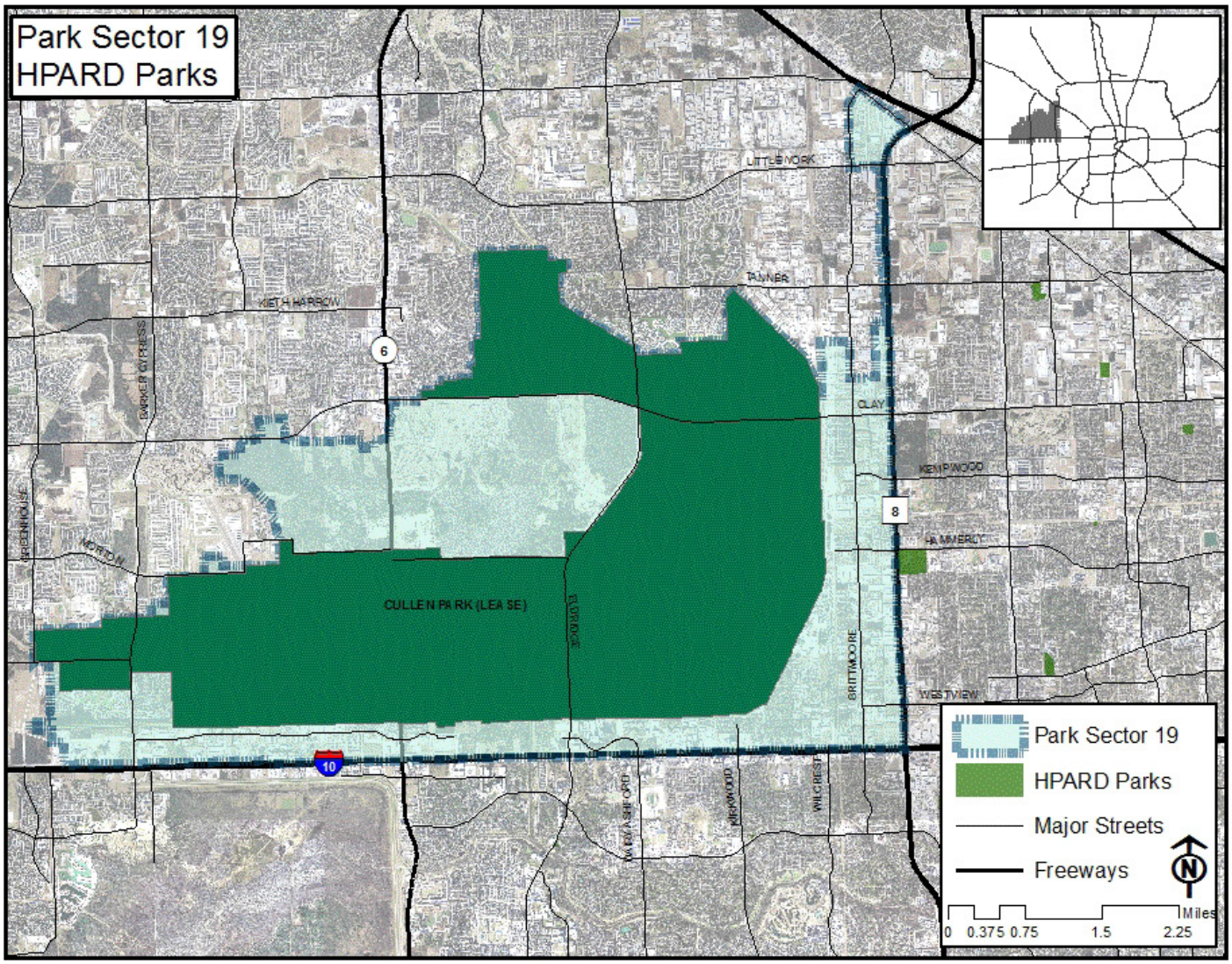


FIGURE 1. PARK SECTOR 19 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 19 Population	Park Sector 19 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**14,722**	-	**2,119,831**	-
Hispanic or Latino	5,735	39.0%	919,668	43.8%
Non-Hispanic White	5,352	36.4%	537,901	25.6%
Non-Hispanic Black	1,920	13.0%	485,956	23.1%
Non-Hispanic American-Indian	24	0.2%	126,098	6.1%
Non-Hispanic Asian	1,411	9.6%		
Non-Hispanic Hawaiian or Pacific Islander	14	0.1%		
Non-Hispanic Some Other Race	266	1.8%	26,828	1.3%

TABLE 1. PARK SECTOR 19 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains 0.7% of the population of Houston; this low population is due to the majority of the Park Sector being comprised of parkland. The majority (39.0%) of residents are Hispanic/Latinos, followed by, Non-Hispanic Whites (36.4%), Non-Hispanic Blacks (13.0%), and Non-Hispanic Asians (9.6%). The majority of the population lives in the areas south and southeast of Cullen Park.

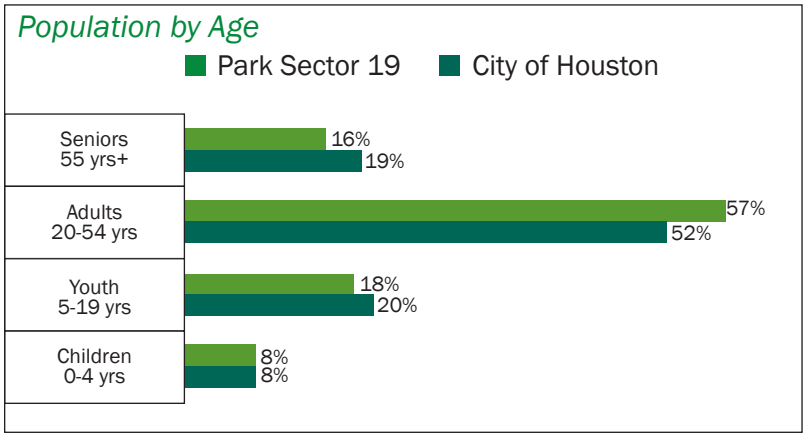


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 19 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that the percent of population under 19 is slightly lower (26%) than that of the rest of the city (28%). Further breakdown of the age groups, as shown in Figure 2., reveals that the percent of adults 20-54 yrs (57%) is higher than the rest of the City of Houston (52%). The percentage of adults 55+ years is lower (16%) than the rest of the City of Houston (19%). However, the distribution of age groups in this Park Sector generally mirrors the same pattern as the entire City of Houston. These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 19 Population	PS 19 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	1,233	8%	8%	166,066	8%	8%
Youth	5-9 yrs	1,042	7%	18%	148,843	7%	21%
	10-14 yrs	879	6%		135,622	7%	
	15-19 yrs	895	6%		140,673	7%	
Adults	20-34 yrs	4,558	30%	57%	539,348	26%	52%
	35-44 yrs	2,103	14%		286,117	14%	
	45-54 yrs	2,053	13%		265,060	13%	
Senior	55-64 yrs	1,437	9%	16%	204,852	10%	19%
	65 yrs +	1,083	7%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 19 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 7,102 housing units in this Park Sector. The percent of vacant housing in Park Sector 19 (12.5%) is similar to the vacancy rates for the entire city (12.3%). Home ownership for this Park Sector (26.9%) is much lower higher than that of the City of Houston (39.7%); conversely, the share of renters (60.1%) is much higher than the city's as a whole (47.1%).

Income

The median household income for this Park Sector ($45,457) is similar to that of the City of Houston ($48,322).

Educational Attainment

Within Park Sector 19 the percent (39%) of individual 25+ years of age with an Associate or a Bachelors degree or above is higher than the relative percent for the entire City of Houston (32%). Conversely, the percentage of those within this park Park Sector without a high school degree (12%) is significantly lower than the same population for the City of Houston (25%).

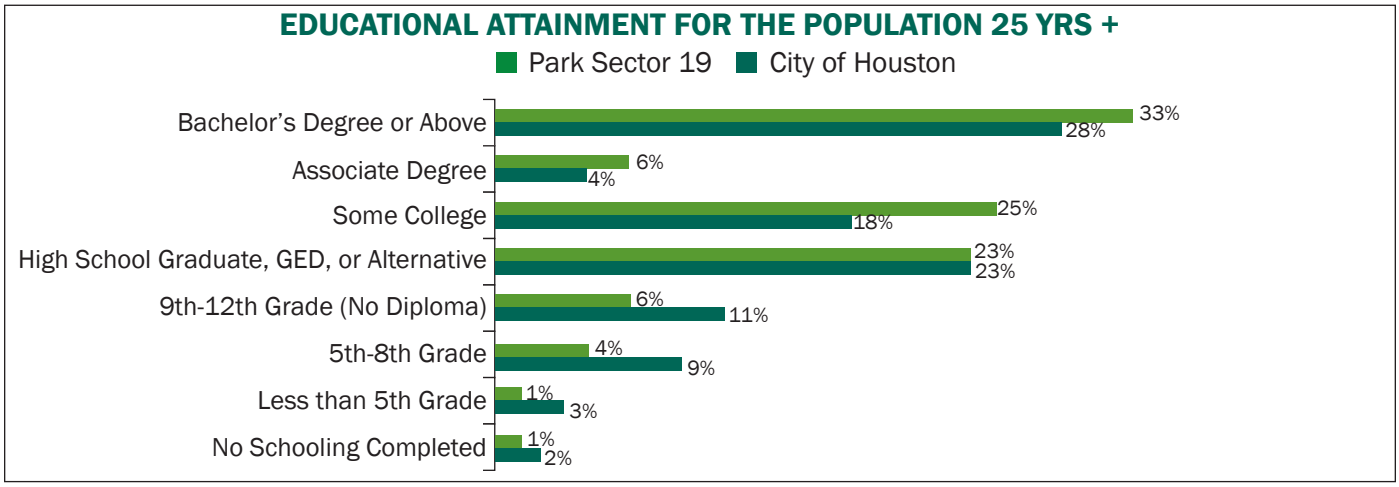


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 36.2% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that only 2.4% of the adult population received a diagnosis of diabetes by a professional, which is much lower than the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that over 41% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is much higher than that of the entire city (32%). The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%.

Finally, the survey shows that 10.8% of the population does not engage in moderate physical activity at all, which is about half of the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

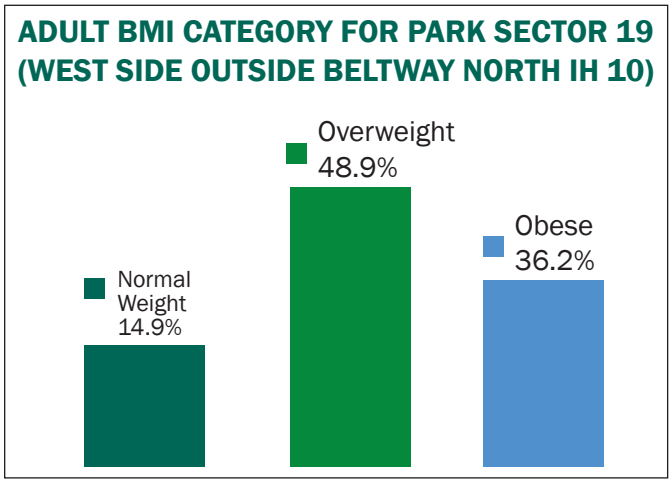


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	10.80
1	2.30
2	26.70
3	18.10
4	0.80
5	2.50
6	0.00
7	38.90

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	2,403	5.9%	500	4.1%
Multi-Family	791	17.7%	216	1.8%
Commercial	155	3.5%	397	3.3%
Office	66	1.5%	239	2%
Industrial	339	7.6%	1,219	10%
Public & Institutional	85	1.9%	554	4.5%
Transportation	81	1.8%	343	2.8%
Parks & Open Space	137	3.1%	8,118	66.5%
Undeveloped	342	7.7%	472	3.9%
Agriculture Production	54	1.2%	152	1.2%
TOTAL	4,462	100%	12,249	100%

TABLE 4. LAND USE BY DESCRIPTION (2013 HCAD)

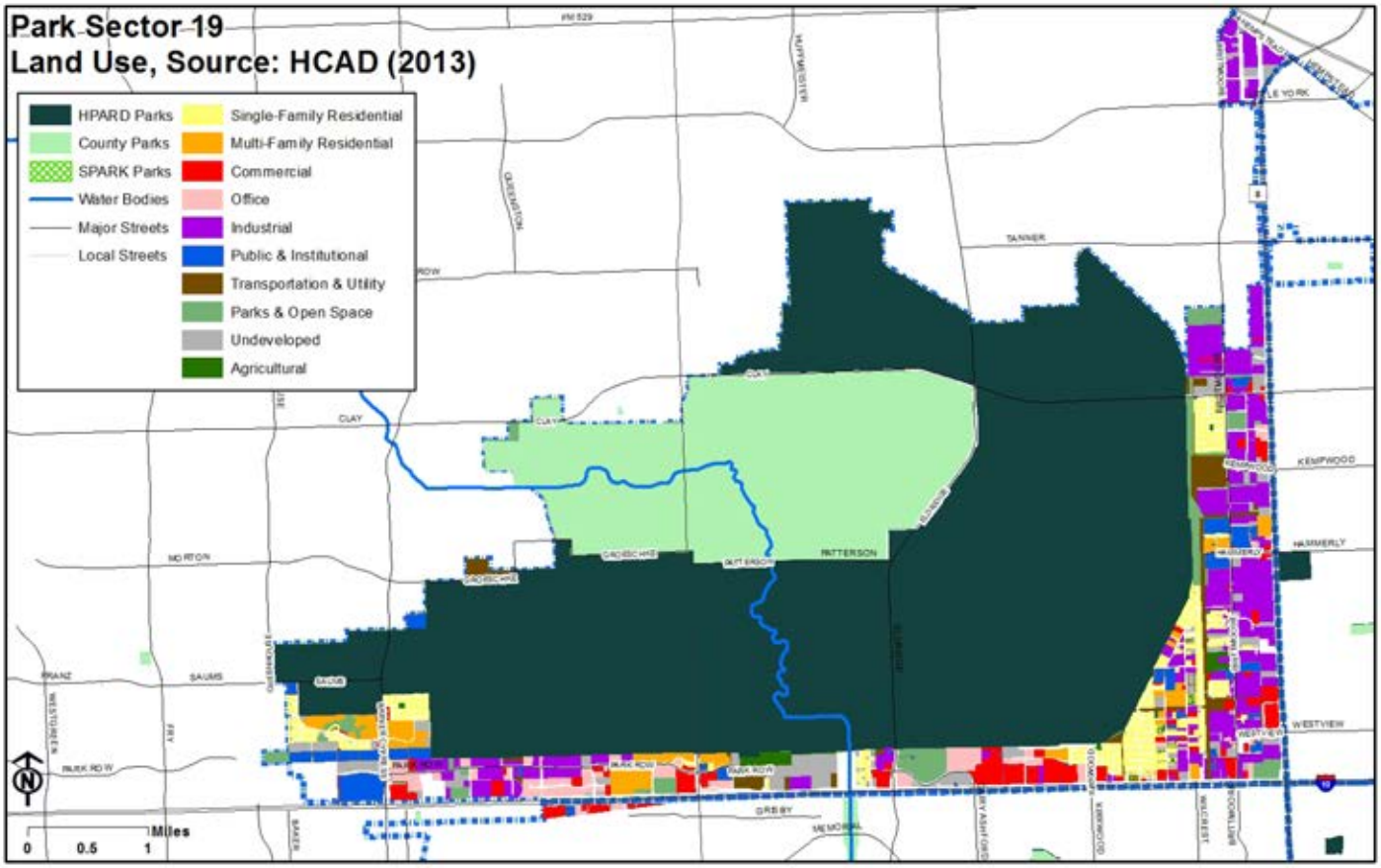


FIGURE 5. PARK SECTOR 19 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

The majority of the acreage in Park Sector 19 is comprised of Parks and Open Space (66.5%); this acreage includes Cullen and Bear Creek Parks which are contained in the Addicks Reservoir. The second most prominent land use is Industrial, making up 10% of the acreage concentrating mostly along Beltway 8. The residential land use (single-family and multi-family) makes up 5.9% of the acreage in this Park Sector.

Most of the residential land uses are close or adjacent to parkland but may not have direct access. Creating connections to the existing park would be the most obvious way to provide access to open space for the residents around this area. Because this property is owned by the US army Corps of Engineers, there are restrictions for development of some recreational uses in areas of the parks.

HPARD PARKS AND TRAILS

Facility Name	Address	Street	Total Acres	Trail Length
Regional Parks				
Cullen Park (Lease)	19008/ 18203	Saums/Groeschke	9,269.82	7.3*
Old Katy Hike and Bike Trail				2.3
Total HPARD Regional Park Acreage			**9,269.82**	
Total HPARD Trail Length				**9.6**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 19

The West Houston Trails Master Plan identified the need for several trail connections on the western portion of the park where some of the amenities of the park are located, as well as along South Mayde Creek and Langham Creek. 'Spine trails' were identified along Barker Cypress, Highway 6 and Eldridge Parkway for north south connectivity and along Patterson Road, and Clay Road for east-west connectivity. Finally, a trail along the boundary of the park from Greenhouse Road to Clay Road (of which Old Katy Hike and Bike Trail would be a part of) was identified as needed.

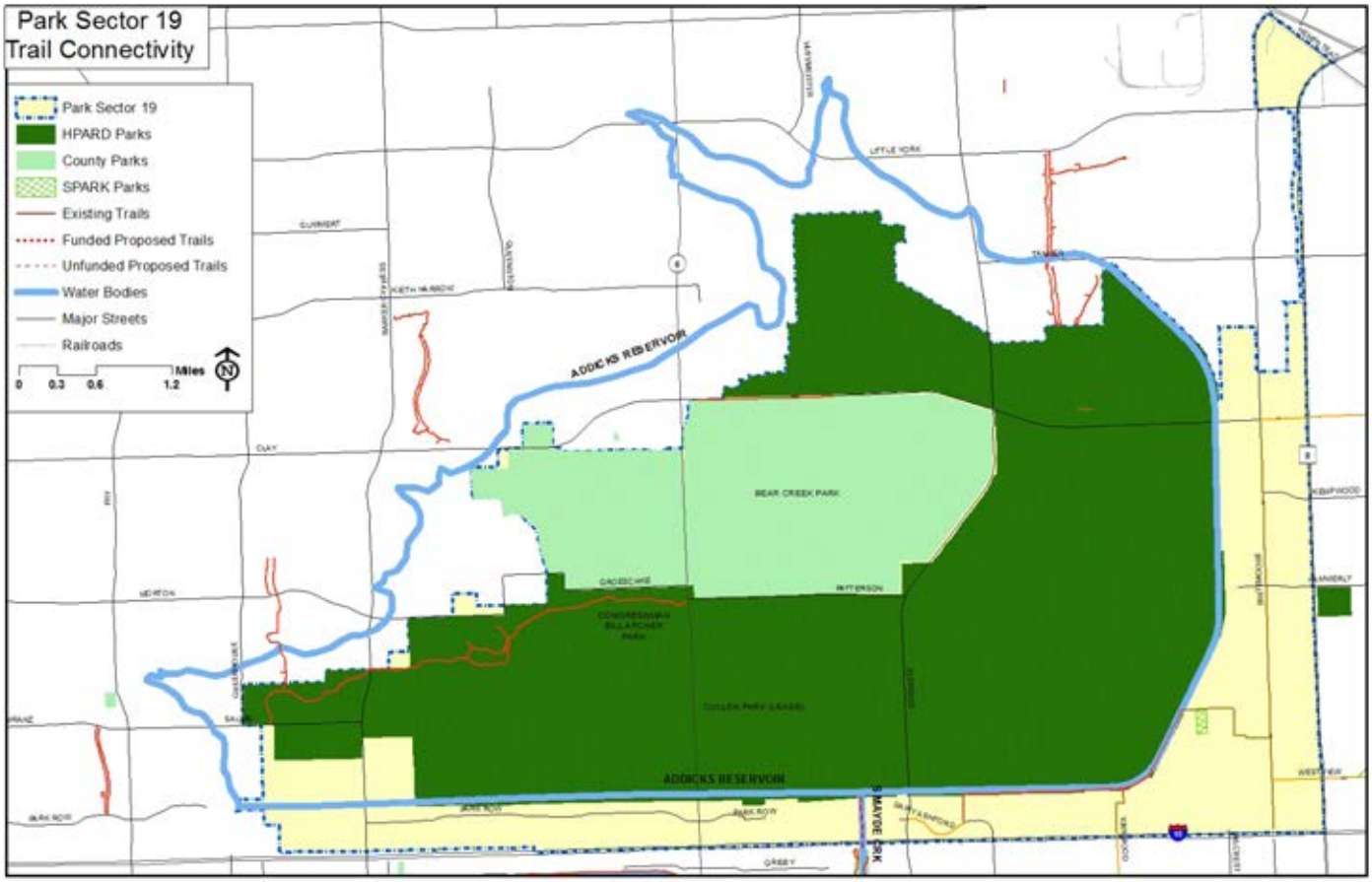


FIGURE 6. PARK SECTOR 19 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

County Parks and Trails

Harris County operates 2 parks in this Park Sector, totaling 3,079.63 acres of parkland. Work has begun on an extension (2.53 miles) of Terry Hershey Park trail under I-10, north to the top of the Addicks Dam where it will branch. There will also be a branch to the east to Eldridge Parkway and a branch to the west connecting with Metro's Addicks Park and Ride Lot.

County Park				
Facility Name	**Address**	**Street**	**Total Acres**	**Trail Length**
Bear Creek Park	3535	War Memorial Drive	2153.63	2.01
Congressman Bill Archer Park	3201	State Highway 6 North	926	1.10
Terry Hershey Park (trail extension)				0.4
		Total HC Park Acreage	**3,079.63**	
		Total HC Trail Length		**3.51**

TABLE 6. TRAILS INTERNAL TO COUNTY PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 19

SPARK Parks

There is one Elementary School participating in the SPARK Program providing access to park space and a amenities to the public.

SPARK Parks				
Facility Name	**Address**	**Street**	**Total Acres***	**Amenities**
Sherwood Elementary School	1700	Sherwood Forest St	9.99	Playground, Trail, Swing Set, Multi-Purpose Field
Total Acres*			**9.99**	

TABLE 7. SPARK PARK ELEMENTARY, MIDDLE AND HIGH SCHOOLS FOR PARK SECTOR 19 BASED ON DATA PROVIDED ON 2011 BY THE SPARK PROGRAM
*Acreage is overstated because it is based on the parcel corresponding to entire school and not the SPARK Park only.

Open and Green Space

To determine level of service the 2007, Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by The Trust for Public Land ParkScore™ Project. Figure 7 below shows the level of service (LOS) based on the 2007 HPARD recommended standards of a number of acres per 1,000 people using the 2010 Census population. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 8.0 acres/1,000 people for a Regional Park, Park Sector 19 meets the standard. The analysis for level of service and needs is shown below.

Another way to measure the level of service provided by parks is by looking at a "walkable" distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ Project study mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project. The areas in green on the map below represent the area within ½ mile of existing parks not blocked by freeways or major roads. Roughly 10% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, which is dramatically lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector.

Park Type	HPARD Park Number	HC Park Number	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
									Population	14,722	
Regional Park (151+)	1	2	9,269.8	3,079.6	0	12,349.5	8.0 ac/1,000 people	629.7	838.8	-9,152.04	-12,231.67
TOTAL	1	2	9,269.8	3,079.6	0	12,349.5	19 acres/1,000			-9,152.04	-12,231.67

TABLE 8. PARK SECTOR 19 HPARD LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

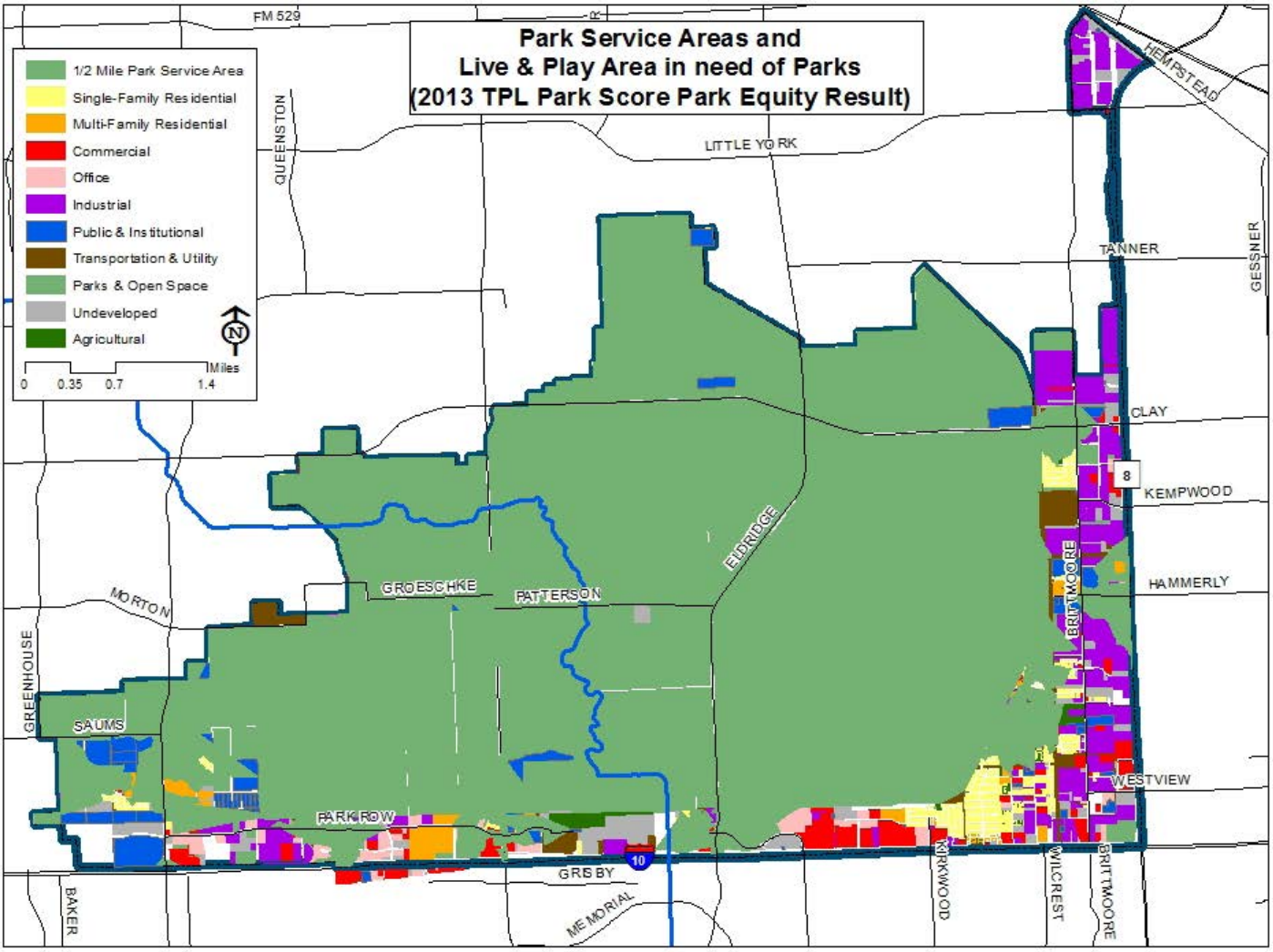


FIGURE 7. PARK SECTOR 19 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

AMENITIES AND SERVICES

Figure 8 below shows that there are very few community services located within this Park Sector. There is a YMCA located outside the Park Sector. This map show the location of the Addicks Park and Ride which will be connecting to the Terry Hershey trail system coming from the south of I-10.

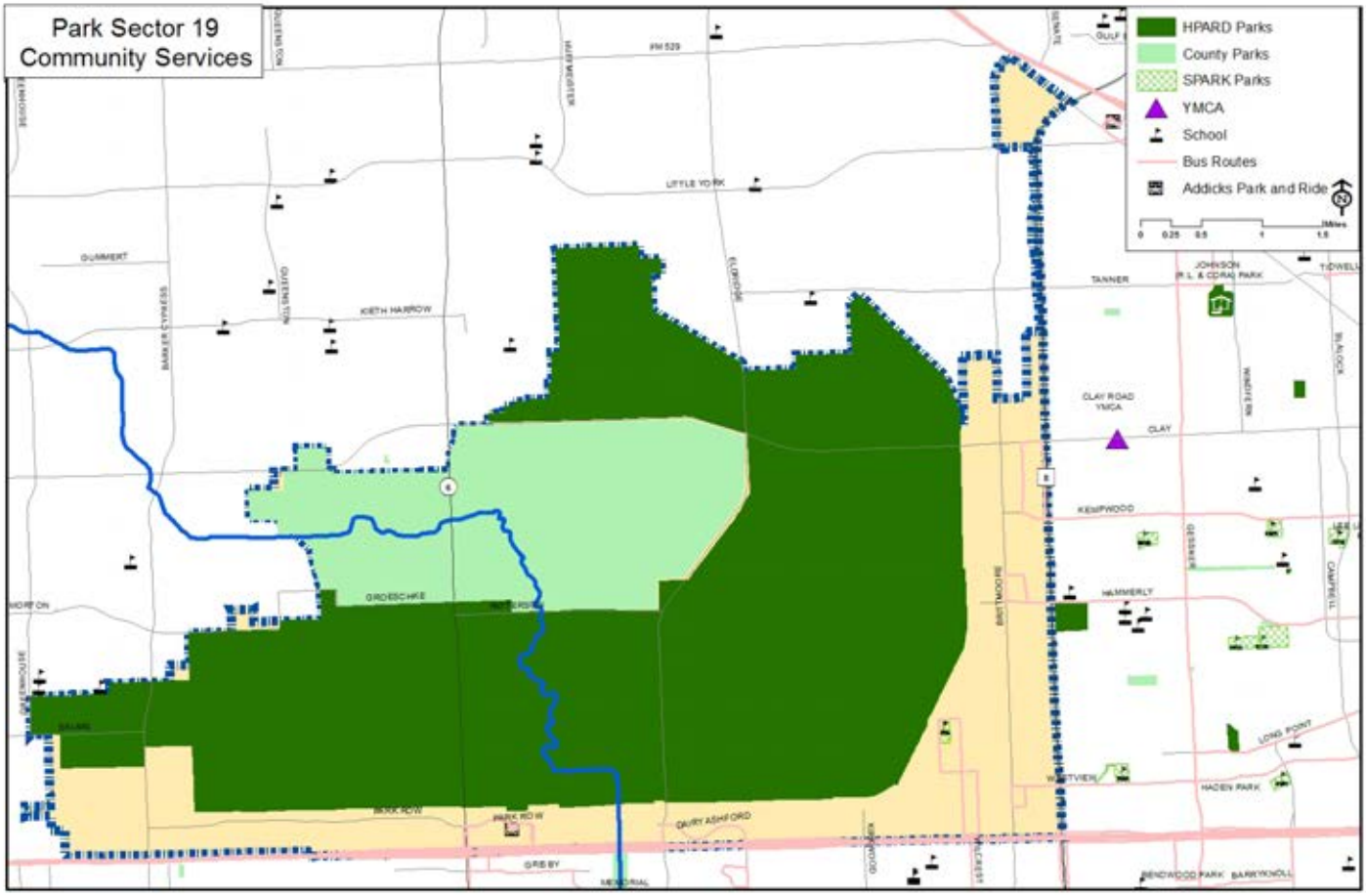


FIGURE 8. PARK SECTOR 19 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities - Level of Service

The 2007 HPARD standards by amenity have been applied to the amenities in Park Sector 19. The standard for each amenity is then compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these recommended HPARD standards, Harris County and other providers are meeting the needs of the residents for playgrounds, picnic shelters, trails, tennis courts, dog parks, skate parks, outdoor spraygrounds, ball fields and soccer fields. This Park Sector is deficient in outdoor basketball courts (1), volleyball courts (1), community centers (1), and pools (1).

Cullen and Bear Creek Parks serve the entire Houston region; the ball fields and soccer fields are heavily used in both of these parks. Based on the analysis done in other Park Sectors, HPARD is aware that ball fields and soccer fields are deficient in most areas of the city.

	HPARD	Harris County	Other Providers	Total	Recommended HPARD Standard		Current HPARD Level of Service		Current Total Inventory Level of Service		HPARD NEEDS Over/ Under Service	Total Inventory NEEDS Over/ Under Standard
							Population		14,722			
Playgrounds	4	2	1	7	1	4,000	1	3,681	1	2,103	0	-3
Picnic Shelters	13	1	0	14	1	10,000	1	1,132	1	1,052	-12	-13
Trails	9.6	3.51	0.25	13	0.2	1,000	0.65	1,000	0.91	1,000	-7	-10
Outdoor Basketball Courts	0	1	0	1	1	12,000	0	12,000	1	14,722	1	1
Tennis	0	2	0	2	1	10,000	0	10,000	1	7,361	1	-1
Volleyball	0	0	0	0	1	50,000	0	50,000	0	50,000	1	1
Dog Parks	0	1	0	1	1	100,000	0	100,000	1	14,722	0	-1
Skate Parks	0	1	0	1	1	100,000	0	100,000	1	14,722	0	-1
Community Centers	0	0	0	0	1	30,000	0	30,000	0	30,000	1	1
Swimming Pools	0	0	0	0	1	50,000	0	50,000	0	50,000	1	1
Outdoor Spraygrounds	1	0	0	1	1	100,000	1	14,722	1	14,722	0	0
Baseball (Lit & Unlit)	0	15	1	16	1 field	30,000	1	30,000	1	920	1	-15
Softball (Lit & Unlit)	4	0	0	4	1 field	30,000	1	3,681	1	3,681	-4	-4
Soccer (Lit & Unlit)	9	24	0	33	1 field	10,000	1	1,636	1	446	-8	-32

TABLE 9. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 19
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- Cullen Park is in the design phase to demolish 3 existing playgrounds and replace them with 2 play structures in a single pad. The trail will also be replaced and new site furnishings will be added.

SUPPLEMENTAL MAPS:

Park Sector 19 Council Districts

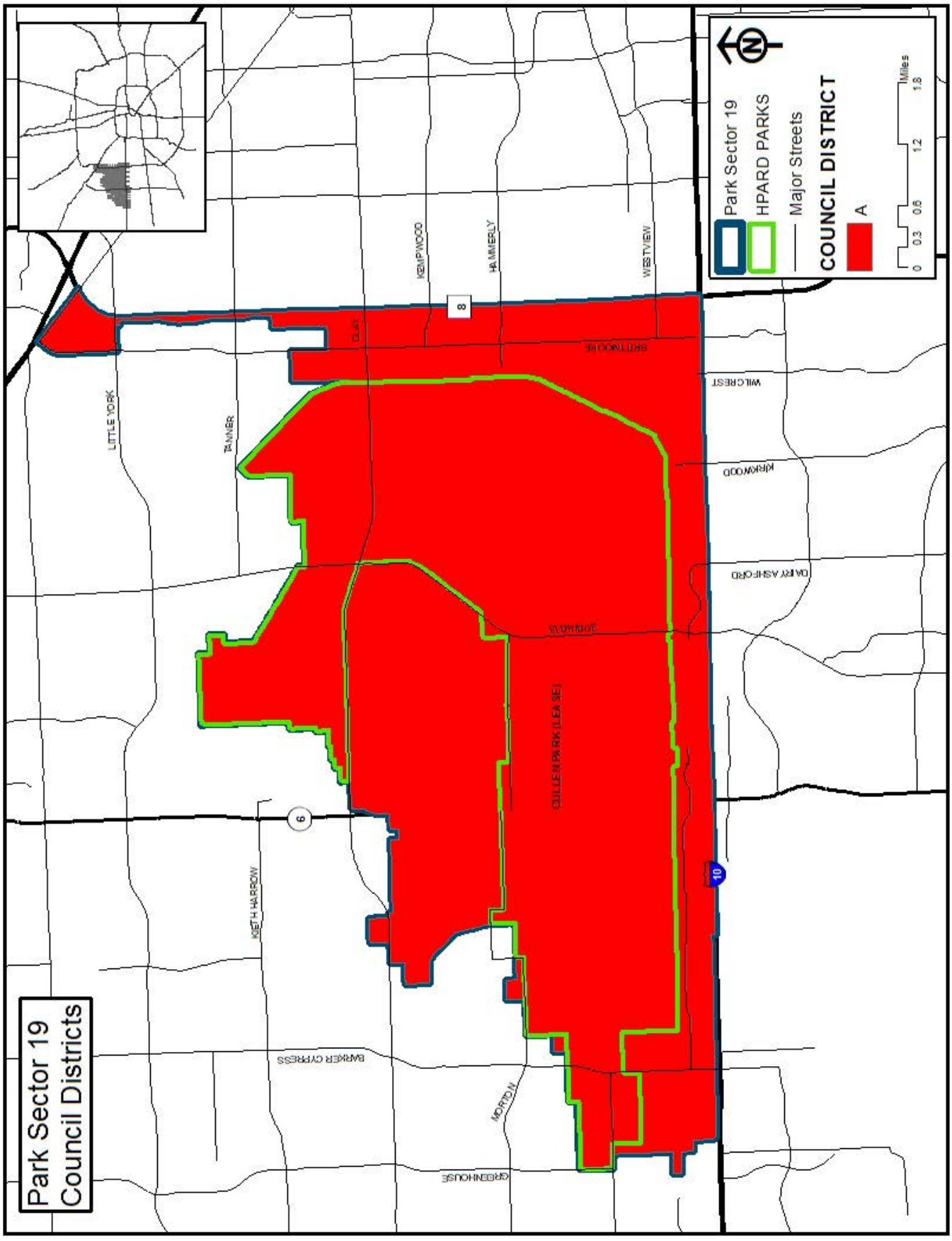


FIGURE 1: PARK SECTOR 19 COUNCIL DISTRICTS

Park Sector 19 Tax Increment Reinvestment Zone (TIRZs) and Management Districts

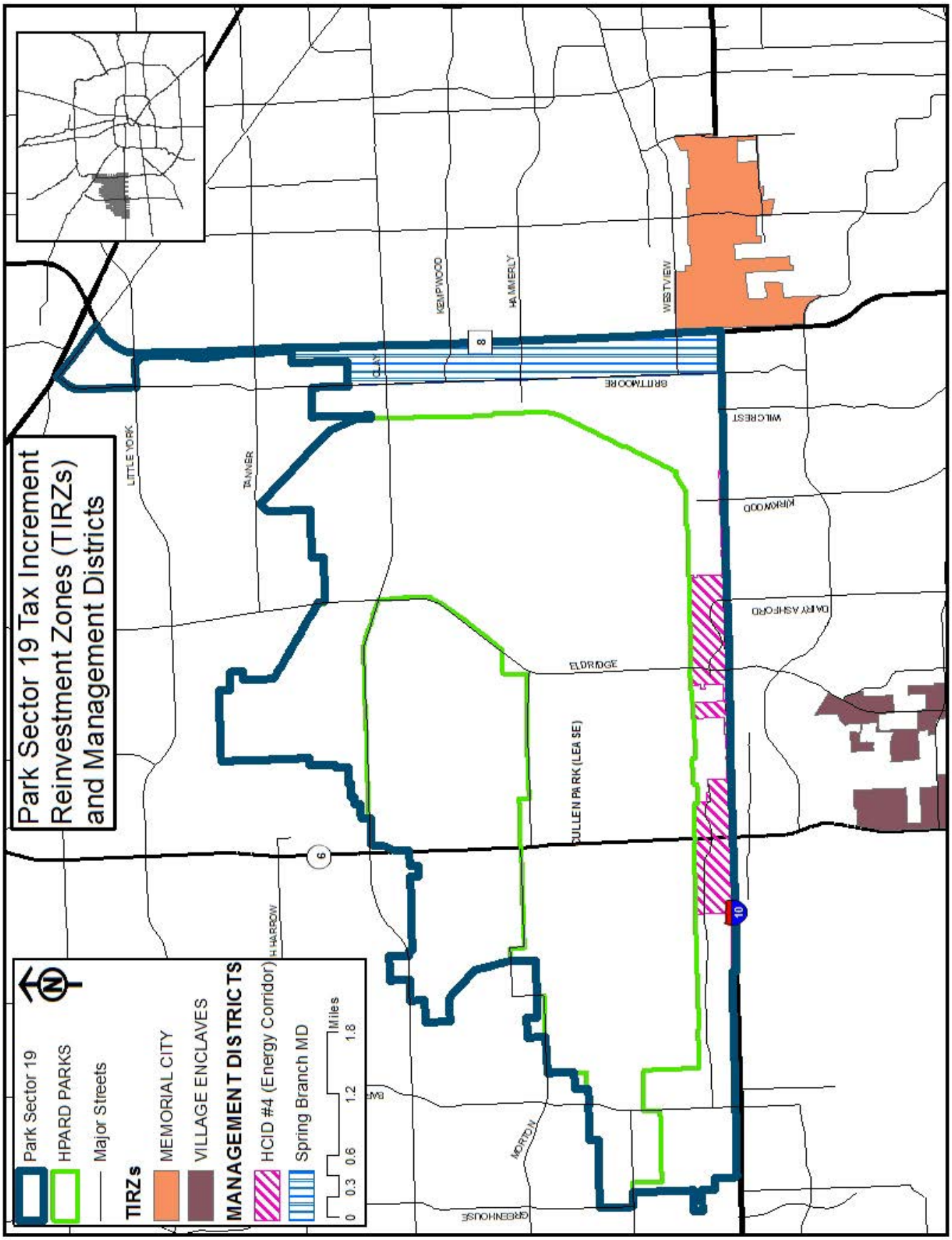


FIGURE 2: PARK SECTOR 19 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 19 Super neighborhoods

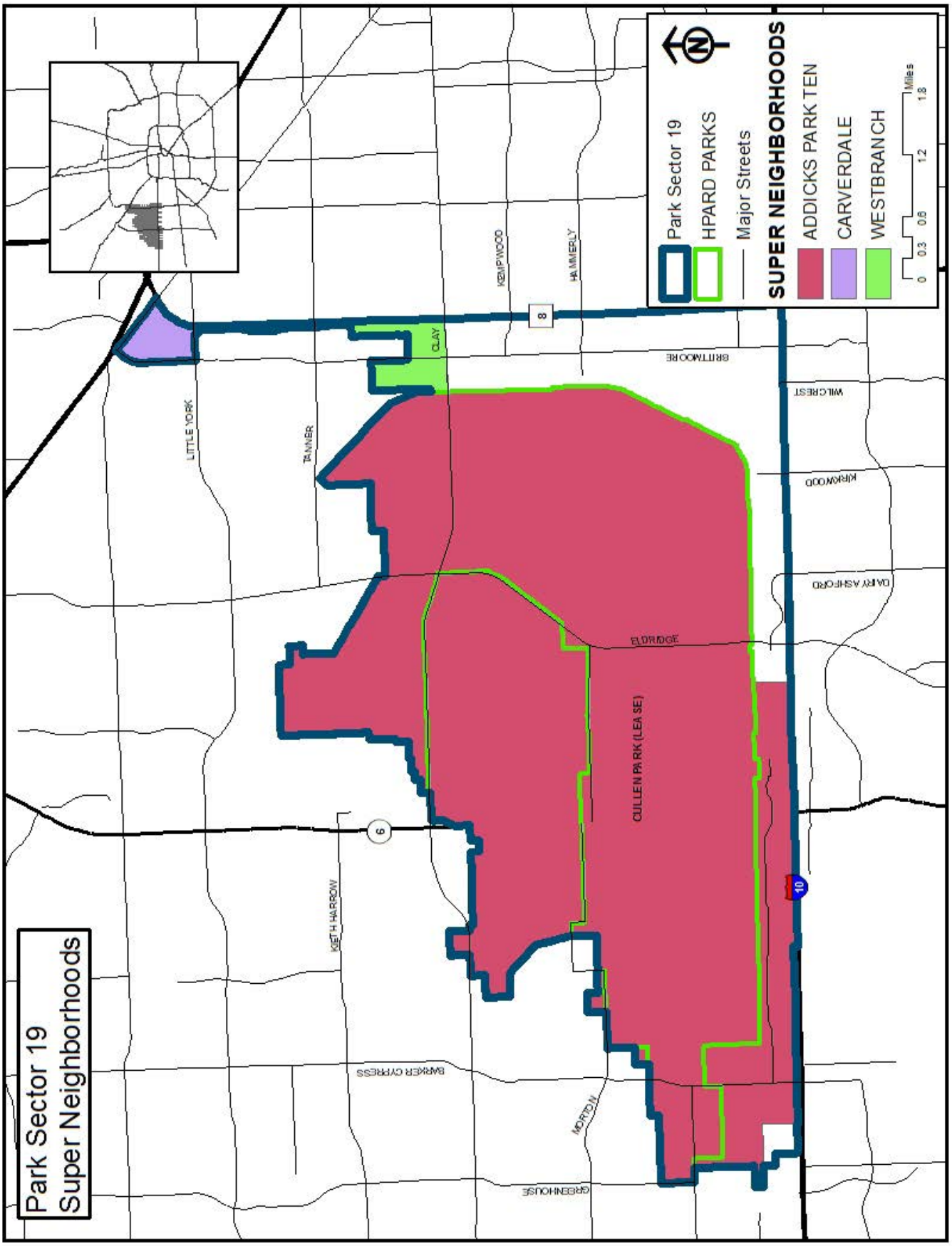


FIGURE 3: PARK SECTOR 19 SUPER NEIGHBORHOODS

Park Sector 19 Floodplain Areas

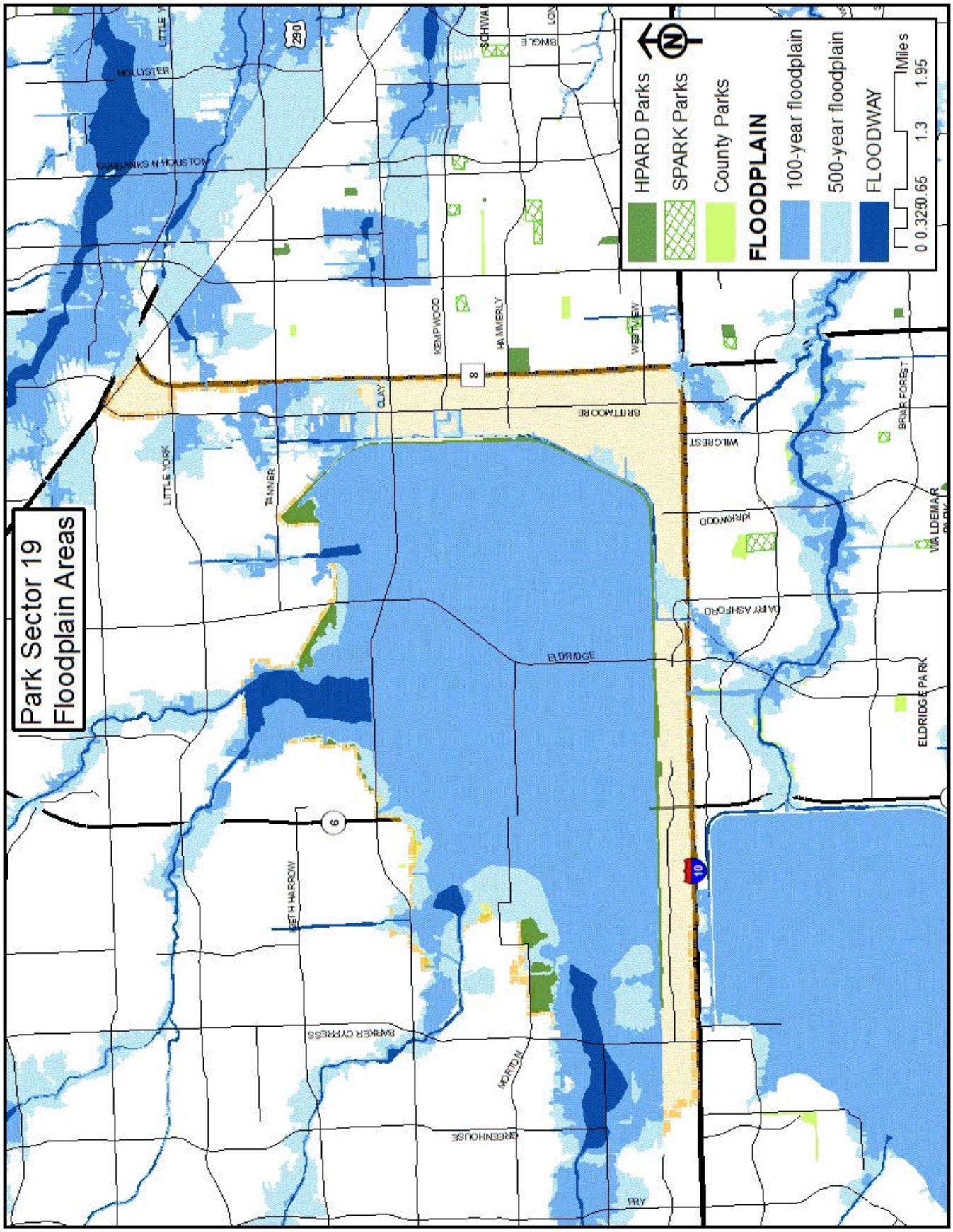


FIGURE 4: PARK SECTOR 19 FLOODPLAIN AREAS

PARK SECTOR 20

PARK SECTOR 20 SUMMARY

PARK SECTOR 20 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and data provided by the Trust for Public Land ParkScore™ Project), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Acquire new parkland
2. Develop new park facilities
3. Develop Neighborhood connections to parks and trails
4. Preserve environmentally sensitive areas
5. Develop partnerships with the school system and other entities
6. Revitalize existing parks

RECOMMENDATIONS

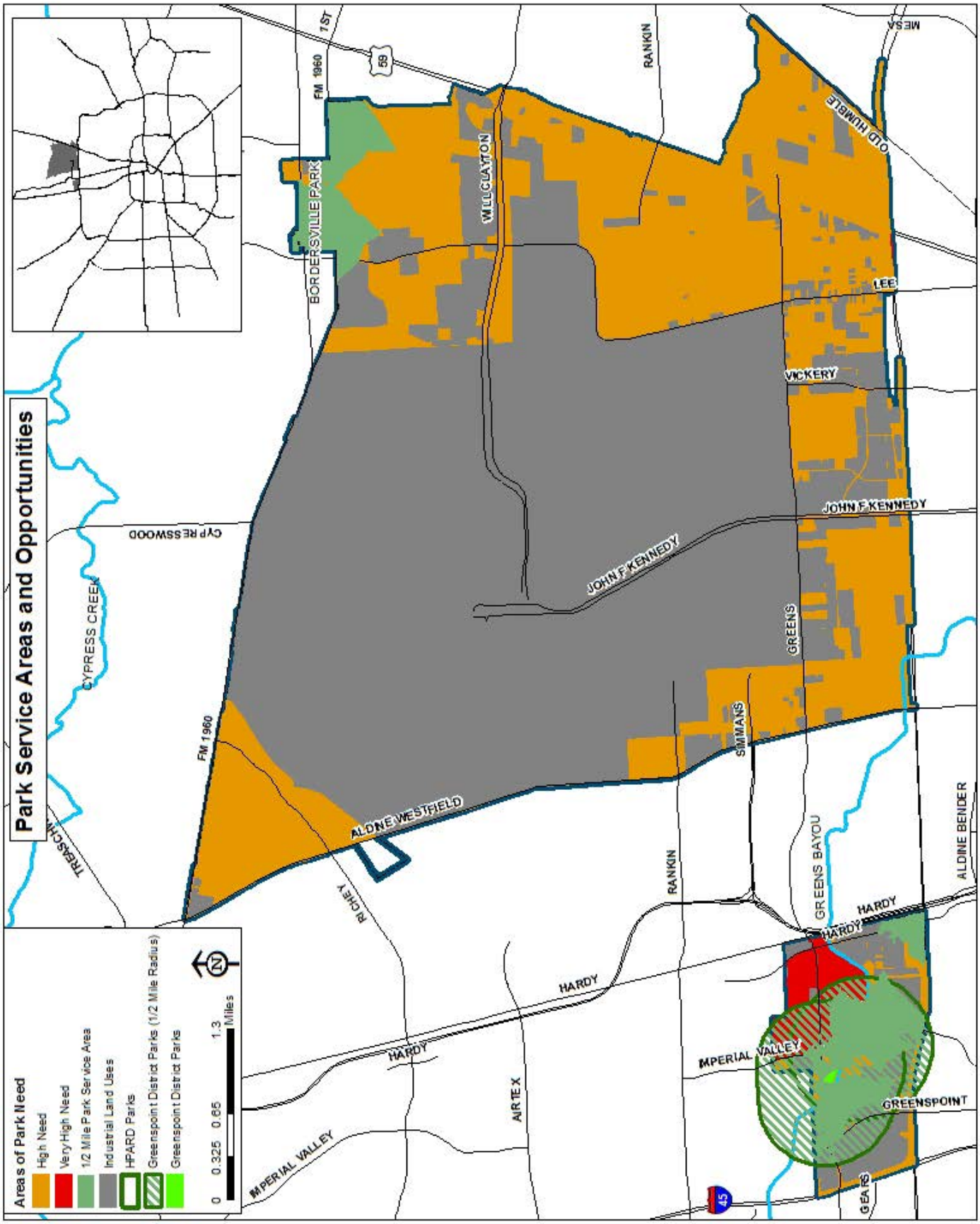
There is only one park, Bordersville Park, in this Park Sector. The residential development is mostly located south of Rankin Road and east of Victory Drive since over 60% of the land use in the area is either industrial or related to the airport. An additional 35.5 acres of parkland are needed northwestern and eastern portion of the Park Sector. Almost 73% of the population in this Park Sector has incomes considered to be low to moderate. Pursuing Community Development Block Grants (CDBG) for park acquisition and improvements should be a priority.

Park Sector 20 has a total of 3 miles of trails. There are approximately 1.5 miles of trails planned along Greens Bayou for this area through the Bayou Greenways Initiative (BG 2020). As there is no space in the only park in this Park Sector for further amenities, land acquisition should be prioritized in this area in the residential areas east of the airport.

The Greenspoint Tax Increment Reinvestment Zone (TIRZ) and Management Districts in the area have actively engaged in acquisition, redevelopment and or maintenance of parks. This is an effort that should continue in order to keep up with the demands and needs of the area.

This Park Sector is deficient in playgrounds, picnic shelters, trails, outdoor basketball courts, tennis courts, dog parks, skate parks, community centers, swimming pools, and softball and soccer fields. In the 2014 survey, the top three priorities of residents in Park Sector 20 when asked what recreational needs existed in their Neighborhood were: hike, bike and walk trails, upgraded recreation centers, and playground areas. Other services and amenities that residents asked for in the write-in portion of the survey were: summer youth enrichment programs, youth nature programs, fitness programs, outdoor environmental education and camping, adult tennis programs, skateboarding facilities, and arts and crafts programs. Over 44% of the population in this Park Sector is obese compared to 30.1% for the City of Houston. Based on this health profile, partnerships focused on increasing levels of physical activity and programming that promotes healthy living should be explored.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Online Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector


Park Service Areas and Opportunities
Areas of Park Need
High Need
Very High Need
1/2 Mile Park Service Area
Industrial Land Uses
HPARD Parks
Greenspoint District Parks (1/2 Mile Radius)
Greenspoint District Parks
0 0.325 0.65 1.3
Miles
FM 1960
59
RANKIN
OLD HUMBLE
MESA
BORDERSVILLE PARK
WILLCLAYTON
LEE
VICKERY
JOHN F KENNEDY
CYPRESS
GREENS
SIMMANS
ALDINE WESTFIELD
ALDINE BENDER
GREENS BAYOU
HARDY
IMPERIAL VALLEY
AIRTEX
GREENSPOINT
45

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Bordersville Park	19622	Carver Rd.	0.85	N/A
	Total HPARD Pocket Park Acreage		**0.85**	
	Total HPARD Park Acreage		**0.85**	
	Total HPARD Trail Length			**N/A**

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger). The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Roughly 33% of this Park Sector is not served by a park, which is lower than that of the entire city (55%). Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space

PARK SECTOR FACTS

- This Park Sector contains 15 acres of parkland (Harris County, HPARD & other providers). Of the 16,986 acres in this Park Sector, less than 1% of this acreage is parkland.
- There are approximately 19,000 residents.
- Residential development is mostly located south of Rankin Road and east of Victory Drive, due to the fact that over 60% of the land use in the area is either industrial or related to the airport
- An additional 36 acres of parkland are needed. The map shows high need in western and eastern portion of the Park Sector. This is based on the current population (2010 US Census) of the Park Sector and needs assessment done for Pocket, Neighborhood and Community parks (number of acres per 1,000 people).
- H-GAC population projections estimate that this area will add over 13,000 residents by 2040. To meet the parkland needs for the estimated 2040 population an additional 35 acres of parkland will be needed.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	5	2	4	2	2	1	1	1	1	1	1	1	1	2
2015 Existing	3	1	4*	1	0	1	0	0	0	0	1	1	0	1
2015 Needed	2	1	-	1	2	-	1	1	1	1	-	-	1	1
2040 Needed	3	1	3	1	1	1	-	-	-	1	-	-	-	1

* This number includes 1.5 miles of trail currently planned along Greens Bayou included in the Bayou Greenways Initiative, (BG2020 Initiative).

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.
2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.
3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.
4. Annual Operation & Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation per resident in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$11,000,000	36 Acres- $2,500,000	$1,000,000	$1,200,000
2040	$11,000,000	35 Acres- $2,500,000	$7,000,000	$800,000
TOTAL 2040	$22,000,000	71 Acres- $5,000,000	$8,000,000	$2,000,000

PARK SECTOR PROFILE 20

LOCATION AND POLITICAL BOUNDARIES

Park Sector 20 is located north of Beltway 8, west of 59, and east of IH-45.
Park Sector Size: 16,986 acres or 26 square miles (approx. 10,000 acres or 15.6 square miles are from the George Bush Intercontinental Airport)
Population: 19,878 people, Density: 764 persons/square mile or 1,911 persons/square mile excluding the airport
Political Boundaries within Park Sector 20:

- Council Districts: B
- Super neighborhoods contained in this Park Sector: IAH/ Airport Area and Greater Greenspoint.
- TIRZ: Greenspoint
- Management Districts: Greater Greenspoint

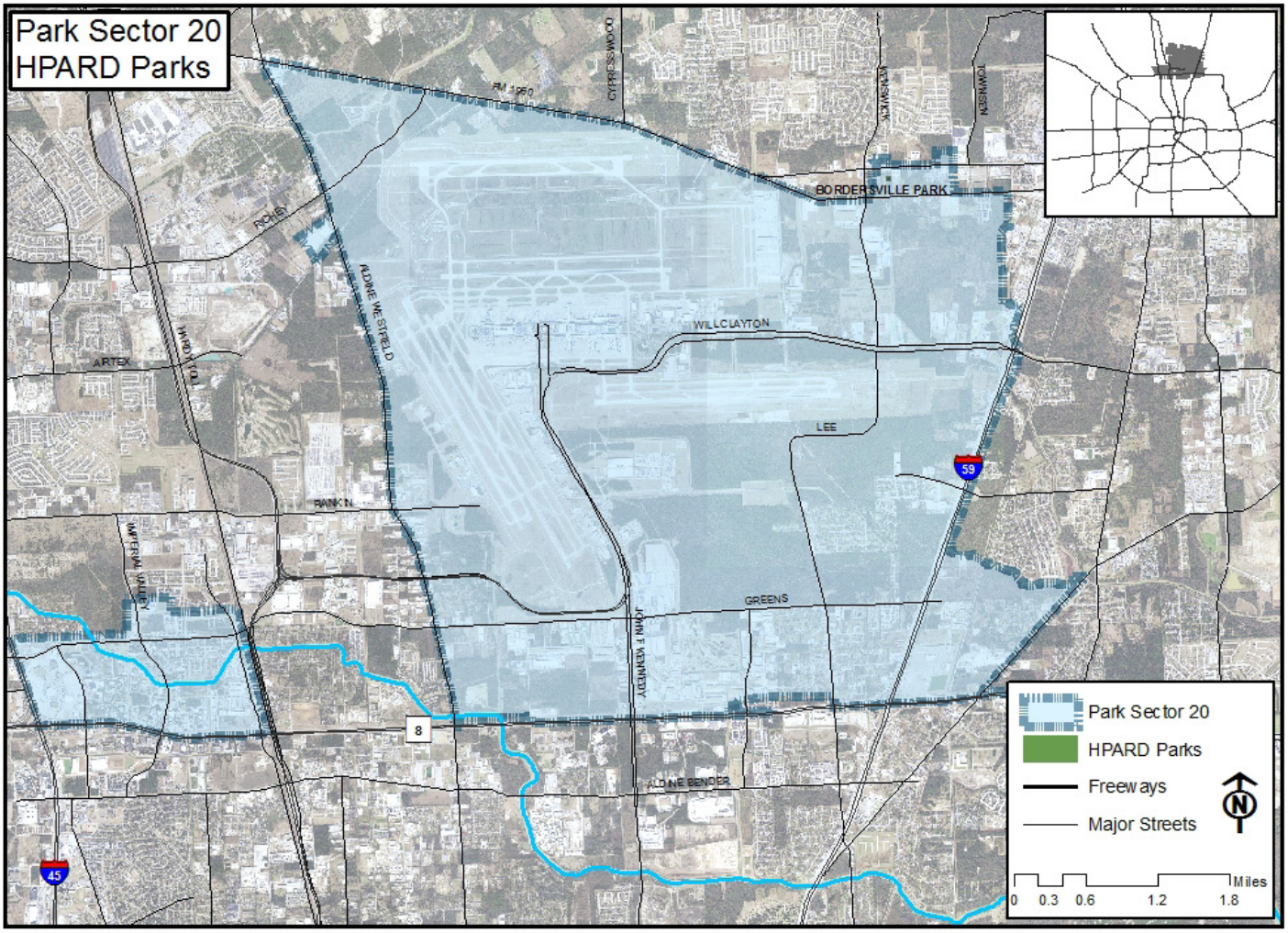


FIGURE 1. PARK SECTOR 20 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 20 Population	Park Sector 20 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**19,878**	-	**2,119,831**	-
Hispanic or Latino	9,579	48.2%	919,668	43.8%
Non-Hispanic White	1,704	8.6%	537,901	25.6%
Non-Hispanic Black	8,114	40.8%	485,956	23.1%
Non-Hispanic American-Indian	25	0.1%	126,098	6.1%
Non-Hispanic Asian	178	0.9%		
Non-Hispanic Hawaiian or Pacific Islander	39	0.2%		
Non-Hispanic Some Other Race	239	1.2%	26,828	1.3%

TABLE 1. PARK SECTOR 20 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains about 0.9% of the population of Houston; the majority (48%) of the residents are Hispanic/Latino, followed by Non-Hispanic Blacks (41%), and Non-Hispanic Whites (9%). The most dense portions of the Park Sector is the area to the east of the airport along US-59. The majority of this Park Sector is occupied by the Houston Intercontinental Airport.

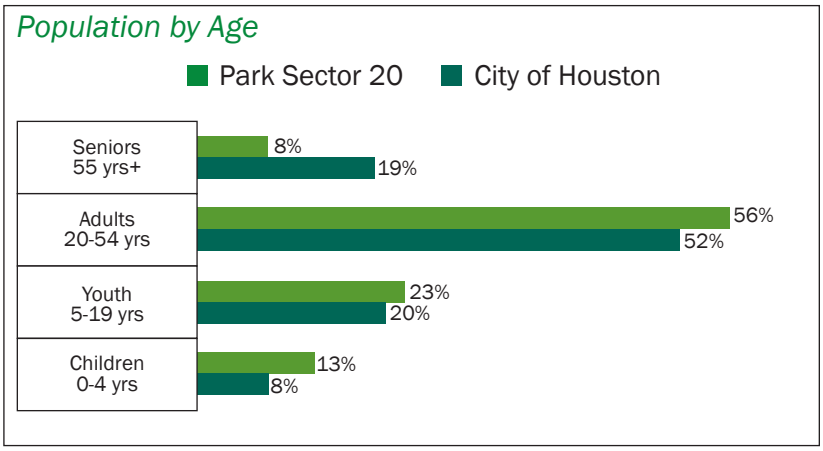


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 20 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that the percent of population under 19 (36%) is higher than the percentage of the rest of the city (28%). Further breakdown of the age groups, as shown in Figure 2., reveals that there are much more (13%) youth 0-4 years old than the rest of the City of Houston (8%). Conversely, there are also noticeably less (8%) seniors 55+ years than the rest of the city (19%). These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 20 Population	PS 20 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	2,724	13%	13%	166,066	8%	8%
Youth	5-9 yrs	1,966	9%	23%	148,843	7%	21%
	10-14 yrs	1,439	7%		135,622	7%	
	15-19 yrs	1,527	7%		140,673	7%	
Adults	20-34 yrs	7,303	34%	56%	539,348	26%	52%
	35-44 yrs	2,737	13%		286,117	14%	
	45-54 yrs	2,004	9%		265,060	13%	
Senior	55-64 yrs	1,140	5%	8%	204,852	10%	19%
	65 yrs +	572	3%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 20 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 7,299 housing units in this Park Sector. The percent of vacant housing in Park Sector 20 (16.5%) is higher than the vacancy rates for the entire city (12.3%). Home ownership for this Park Sector (10.2%) is much lower than the City of Houston's home ownership rate (39.7%); similarly, the share of renters (72.7%) is much higher than the city as a whole (47.1%).

Income

The median household income for this Park Sector ($29,148) is significantly lower than that of the City of Houston ($48,322). In this Park Sector seventy-nine percent (79%) or 6,249 households in this area have an income below the Houston median household income. According to the City of Houston Housing and Community Development data (low to moderate derived from 2000 Census as per federal regulations) 72.5% of the population is low to moderate income; therefore, this area could qualify for Community Development Block Grant (CDBG) funds.

Educational Attainment

Within Park Sector 20 the percent (9%) of individuals 25+ years of age with a Bachelor's degree or above is significantly lower than the relative percent for the entire City of Houston (28%). Conversely, the percentage of those within this Park Sector with only a high school degree (31%) is higher than that of the City of Houston (23%).

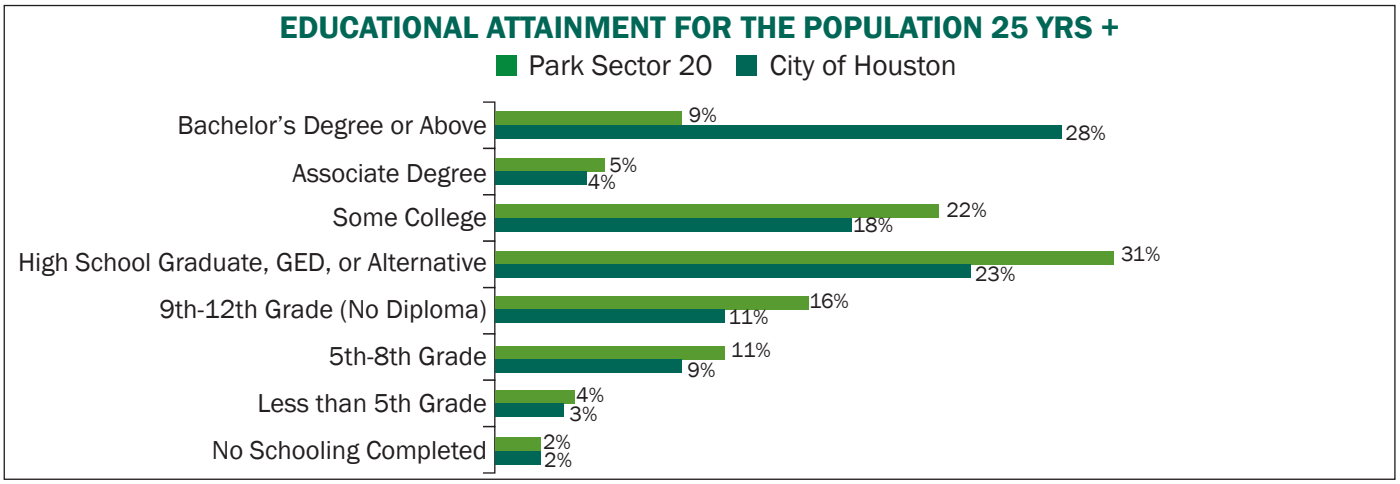


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 44.3% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that 9.9% of the adult population received a diagnosis of diabetes by a professional, which is lower than the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that over 56% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is much higher than that of the entire city (32%). The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%.

Finally, the survey shows that 17.7% of the population does not engage in moderate physical activity at all, which is lower than the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

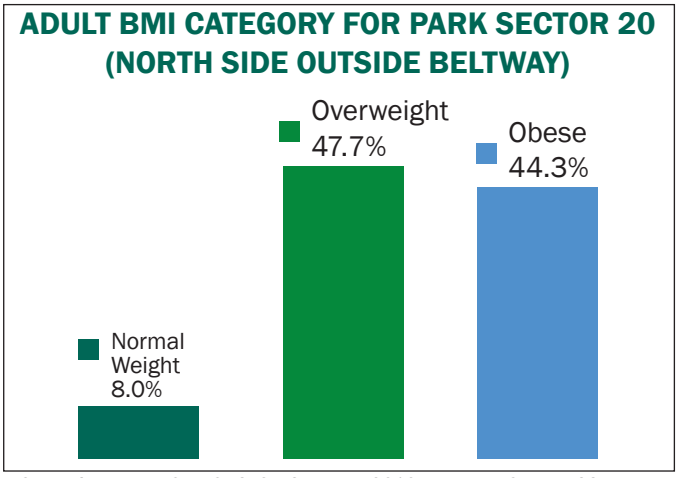


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	17.70
1	10.30
2	6.30
3	9.00
4	0.00
5	30.10
6	4.40
7	22.30

TABLE 3. HEALTH OF HOUSTON SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	1,191	29%	493	3.2%
Multi-Family	352	8.6%	312	2%
Commercial	176	4.3%	487	3.2%
Office	55	1.3%	183	1.2%
Industrial	198	4.8%	1,032	6.7%
Public & Institutional	504	12.3%	1,243	8.1%
Transportation	297	7.2%	8,913	58.1%
Parks & Open Space	107	2.6%	509	3.3%
Undeveloped	1,189	29%	2,005	13.1%
Agriculture Production	19	0.5%	174	1.1%
TOTAL	4,104	100%	15,351	100%

TABLE 4. LAND USE BY DESCRIPTION (2012 HCAD)

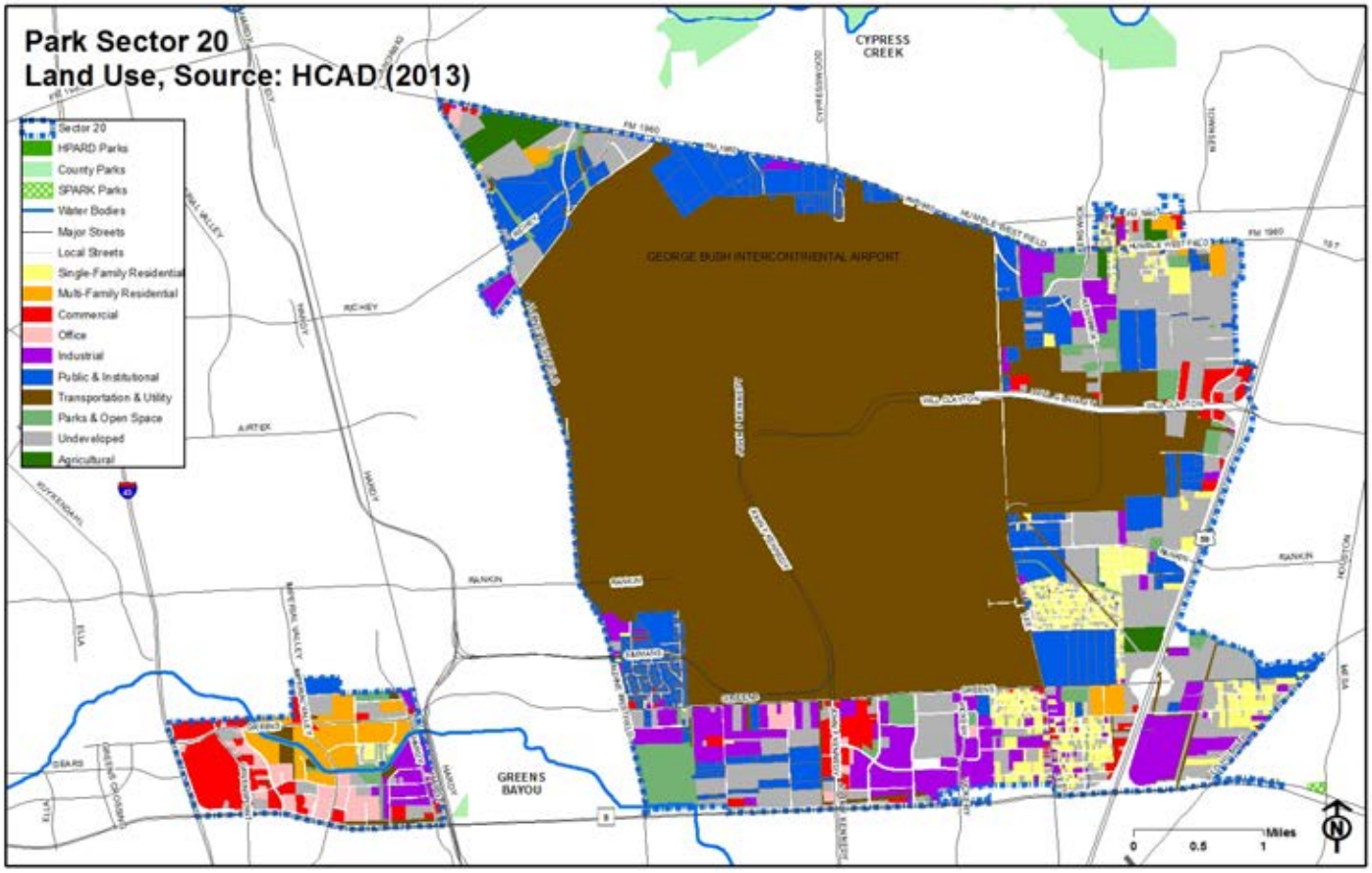


FIGURE 5. PARK SECTOR 20 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

George Bush Intercontinental Airport and City of Houston facilities related to the airport make up over 60% of the land in Park Sector 20. Over 13% of the land acreage is undeveloped, followed by almost 7% of acreage being industrial. Only a small percentage of the land area (5.4%) is residential. Most of the residential development is in the southeast portion of Park Sector 20.

HPARD PARKS AND TRAILS

Facility Name	Address	Street	Total Acres	Trail Length
Pocket Parks				
Bordersville Park	19622	Carver Rd.	0.85	N/A
Total HPARD Pocket Park Acreage			**0.85**	
	Total HPARD Park Acreage		**0.85**	
		Total HPARD Trail Length		**N/A**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 20

The Houston Parks and Recreation Department (HPARD) operates only 1 park in this Park Sector, accounting for 0.85 acres of parkland. HPARD does not maintain any trails in this Park Sector. Greenspoint Management District operates 2 parks, City View Park and Thomas R. Wussow Park, in this Park Sector for a total 14.2 acres. Along the north and south side of Greens Bayou, Thomas R. Wussow Park and City View Park are connected via pedestrian bridge to a 1.5 mile trail. There is also a 1.3 Mile trail inside Thomas R. Wussow Park. There are no Harris County or SPARK parks within this Park Sector. There are approximately 1.5 miles of trails planned along Greens Bayou for this area through the Bayou Greenways Initiative (BG 2020).

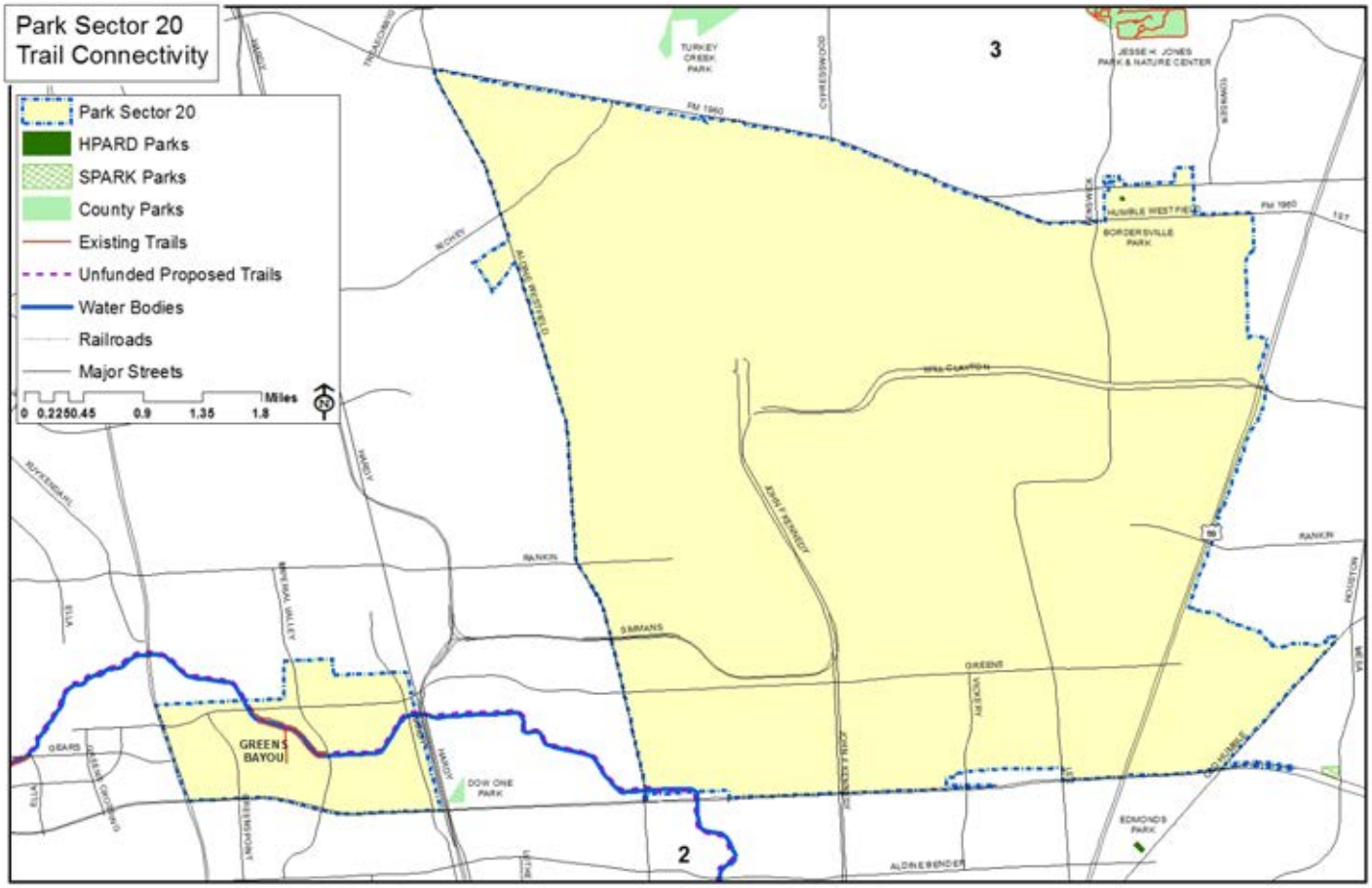


FIGURE 6. PARK SECTOR 20 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

County Parks and Trails

There are no County Parks within Sector 20.

SPARK Parks

There are no SPARK Parks within Sector 20.

Open and Green Space

To determine level of service, the 2007 Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by The Trust for Public Land ParkScore™ Project. Figure 6 below shows the level of service (LOS) based on the 2007 HPARD recommended standards of a number of acres per 1,000 people using the 2010 Census population. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 0.005 acres/1,000 people for a Pocket park, Park Sector 20 meets the standard. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 1 acres/1,000 people for a Neighborhood park, 5.68 acres of parkland should be acquired in Park Sector 20. For the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): 1.5 acres/1,000 people for a community park, 29.82 acres are needed in Park Sector 20.

Park Type	HPARD Park Number	HC Park Number	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
								Population		19,878	
Pocket Park (<1 acre)	1	0	0	0.85	0	0	0.85	0.04	0.04	-0.75	-0.75
Neighborhood Park (1-15 acres)	0	0	2	0	0	14.2	14.2	-	0.71	19.88	5.68
Community Park (16-150 acres)	0	0	0	0.00	0	0	0	-	-	29.82	29.82
TOTAL	1	0	2	0.85	0	14.2	15.05			49.70	35.50

TABLE 6. PARK SECTOR 20 HPARD LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Another way to measure the level of service provided by parks is by looking at a "walkable" distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ Project study mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project. The areas in green on the map in Figure 7 represent the area within ½ mile of existing parks not blocked by freeways or major roads. Roughly 33% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, which is lower than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of private parks from the total acreage of the Park Sector. Even excluding the airport and the industrial areas surrounding it, there are still Pockets of single-family in the southeastern portion of the Park Sector that are not served by a park. The actual amount of single-family and multi-family areas served by a park are mainly concentrated in the northern portion of the Park Sector. The Greenspoint Management District parks help serve the population closest IH-45; however, there are still some multi-family areas in this portion of the Park Sector that are lacking access to a park.

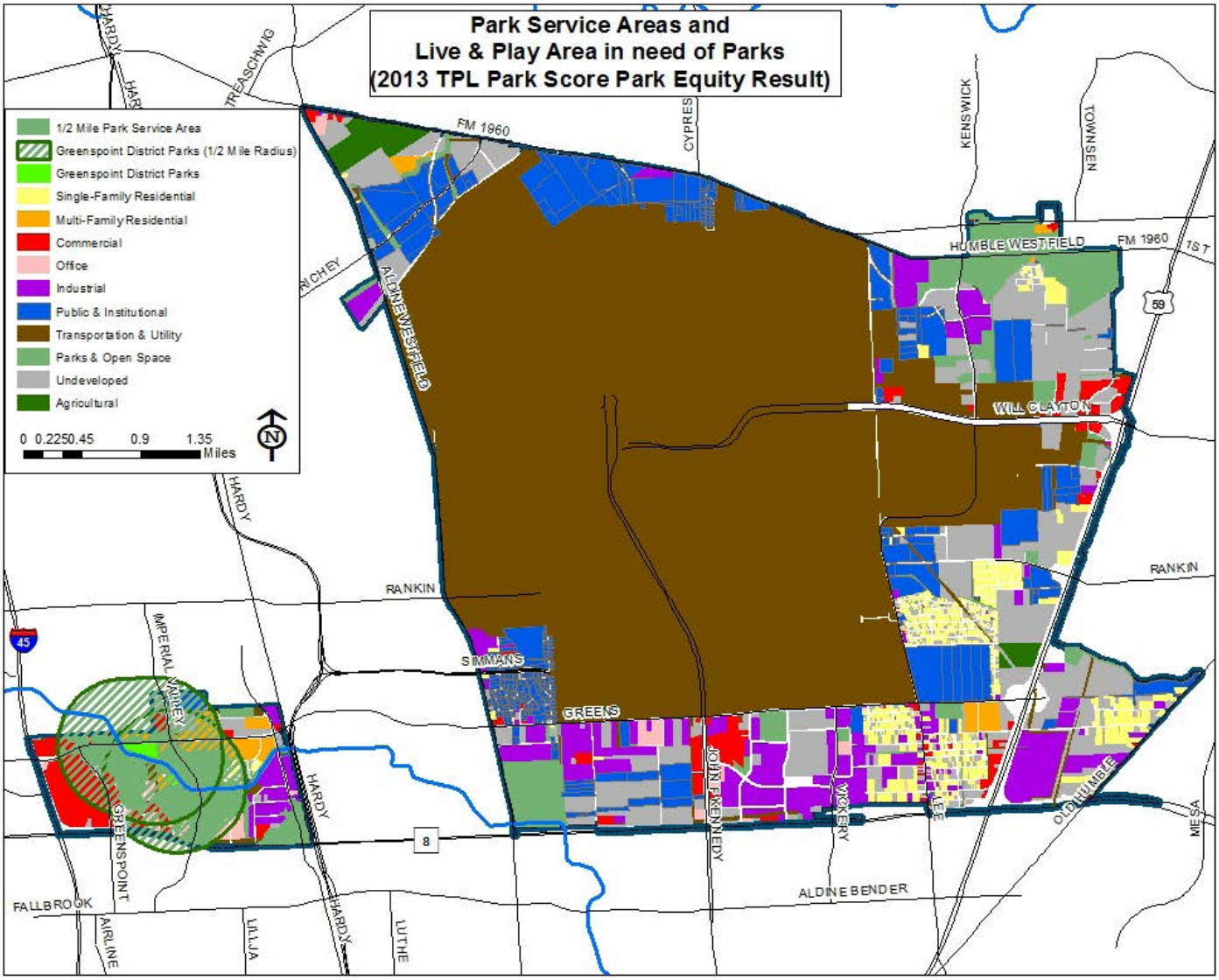


FIGURE 7. PARK SECTOR 20 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

AMENITIES AND SERVICES

This map shows some of the community services available in this area: libraries, schools, transit centers, military services, YMCAs, and Boys and Girls Clubs. There is one military service center in Park Sector 20: USO service center at George Bush Intercontinental Airport.

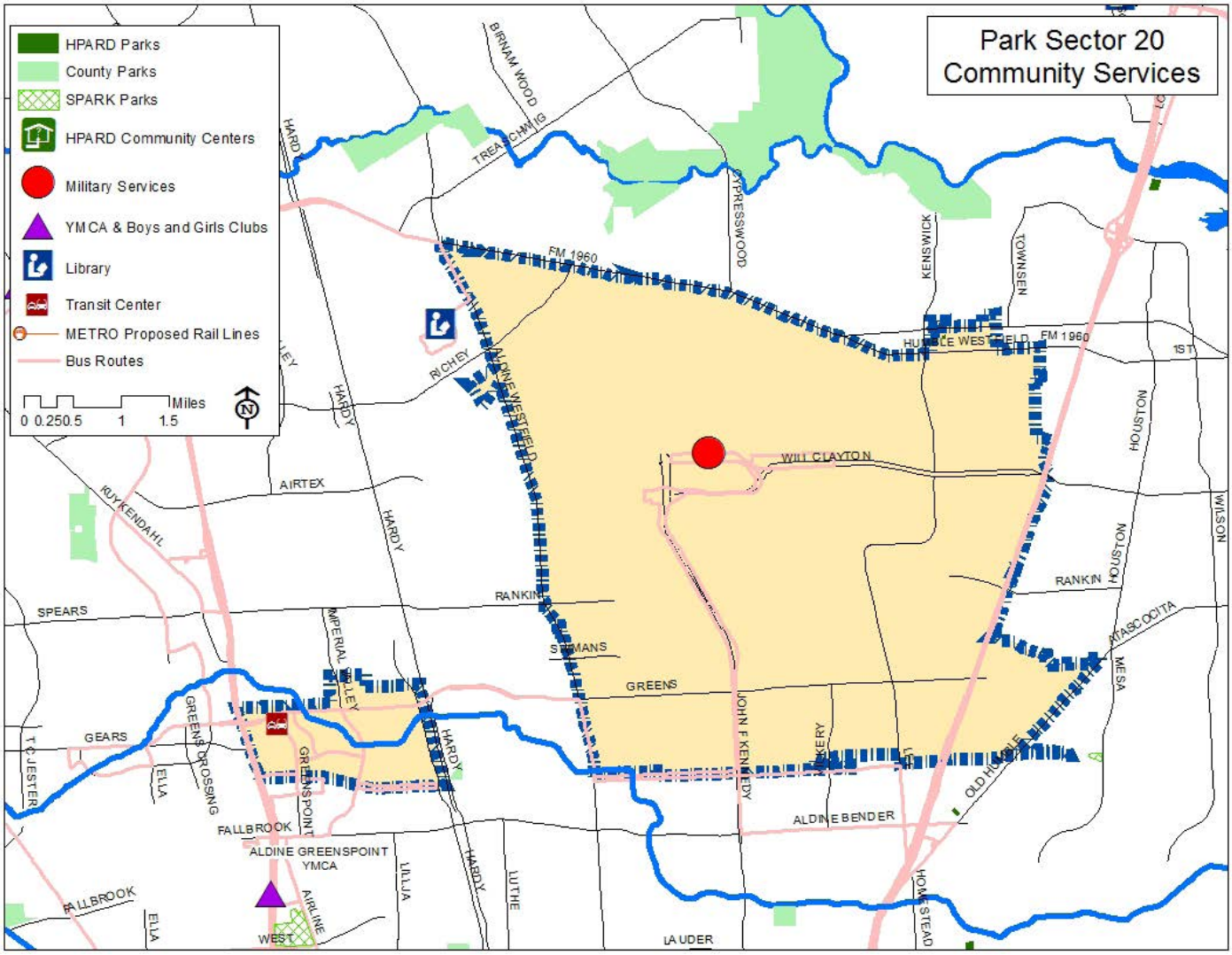


FIGURE 8. PARK SECTOR 20 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities - Level of Service

The 2007 HPARD standards by amenity have been applied to the amenities in Park Sector 20. The standard for each amenity is then compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these recommended HPARD standards, Harris County and other providers are meeting the needs of the residents for volleyball courts, outdoor spraygrounds, and baseball fields. This Park Sector is deficient in playgrounds (2), picnic shelters (1), trails (1 mile), outdoor basketball courts (1), tennis courts (2), and dog parks (1), skate parks (1), community centers (1), swimming pools (1), softball fields (1), and soccer fields (1).

	HPARD	Harris County	Other Providers	Total	Recommended HPARD Standard		Current HPARD Level of Service		Current Total Inventory Level of Service		HPARD NEEDS Over/ Under Service	Total Inventory NEEDS Over/ Under Standard
						Population		19,878				
Playgrounds	1	0	2	3	1	4,000	1	19,878	1	6,626	4	2
Picnic Shelters	0	0	1	1	1	10,000	1	19,878	1	19,878	2	1
Trails	0	0	3	3	0.2	1,000	0.00	19,878	0.00	19,878	4	1
Outdoor Basketball Courts	1	0	0	1	1	12,000	1	19,878	1	19,878	1	1
Tennis	0	0	0	0	1	10,000	0	19,878	0	19,878	2	2
Volleyball	0	0	1	1	1	50,000	0	19,878	1	19,878	1	0
Dog Parks	0	0	0	0	1	100,000	0	19,878	0	19,878	1	1
Skate Parks	0	0	0	0	1	100,000	0	19,878	0	19,878	1	1
Community Centers	0	0	0	0	1	30,000	0	19,878	0	19,878	1	1
Swimming Pools	0	0	0	0	1	50,000	0	19,878	0	19,878	1	1
Outdoor Spraygrounds	0	0	1	1	1	100,000	0	19,878	1	19,878	1	0
Baseball (Lit & Unlit)	0	0	1	1	1 field	30,000	0	19,878	1	19,878	1	0
Softball (Lit & Unlit)	0	0	0	0	1 field	30,000	0	19,878	0	19,878	1	1
Soccer (Lit & Unlit)	0	0	1	1	1 field	10,000	0	19,878	1	19,878	2	1

TABLE 7. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 20
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

There are no current projects in this Park Sector.

SUPPLEMENTAL MAPS:

Park Sector 20 Council Districts

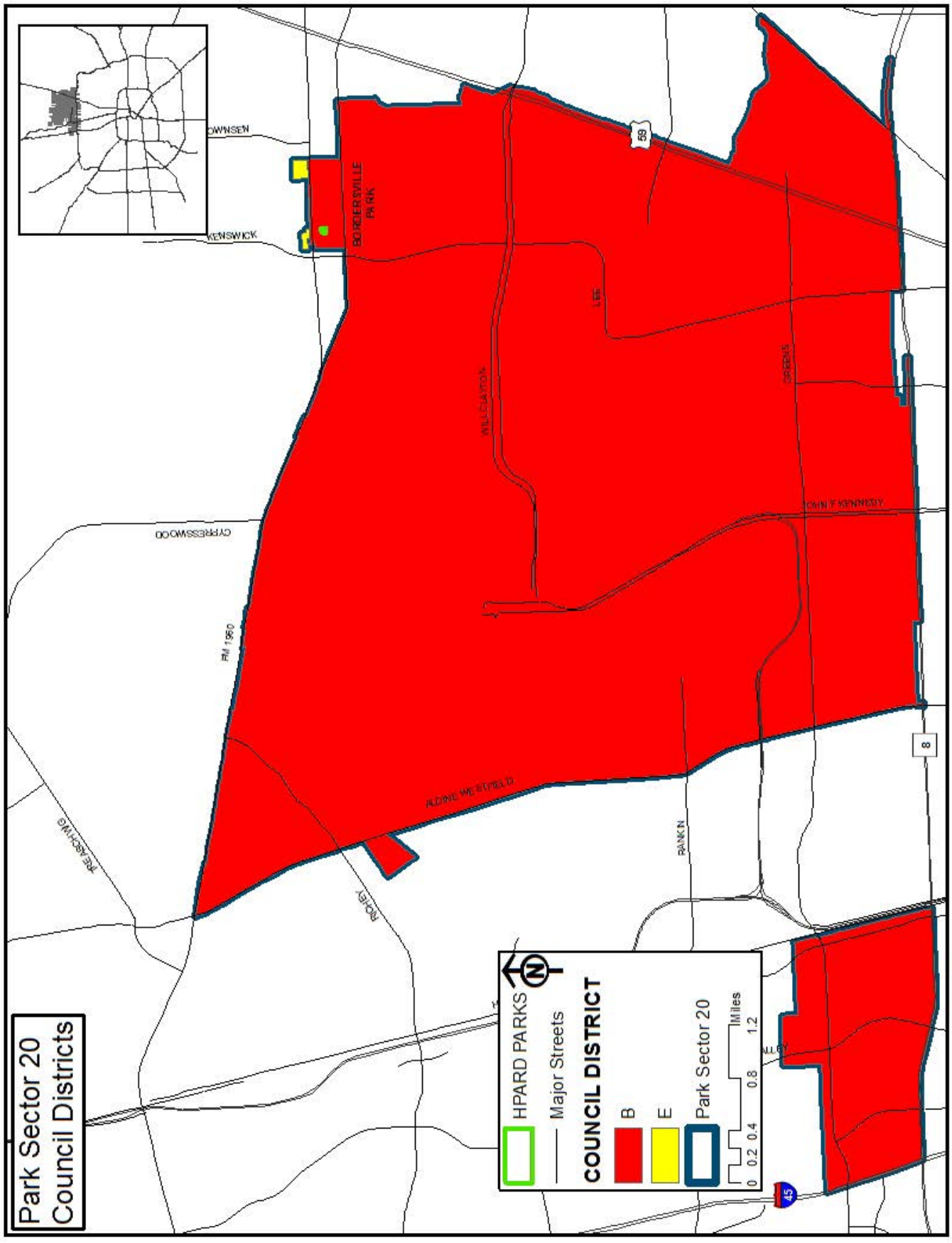


FIGURE 1: PARK SECTOR 20 COUNCIL DISTRICTS

Park Sector 20 Tax Increment Reinvestment Zone (TIRZs) and Management Districts

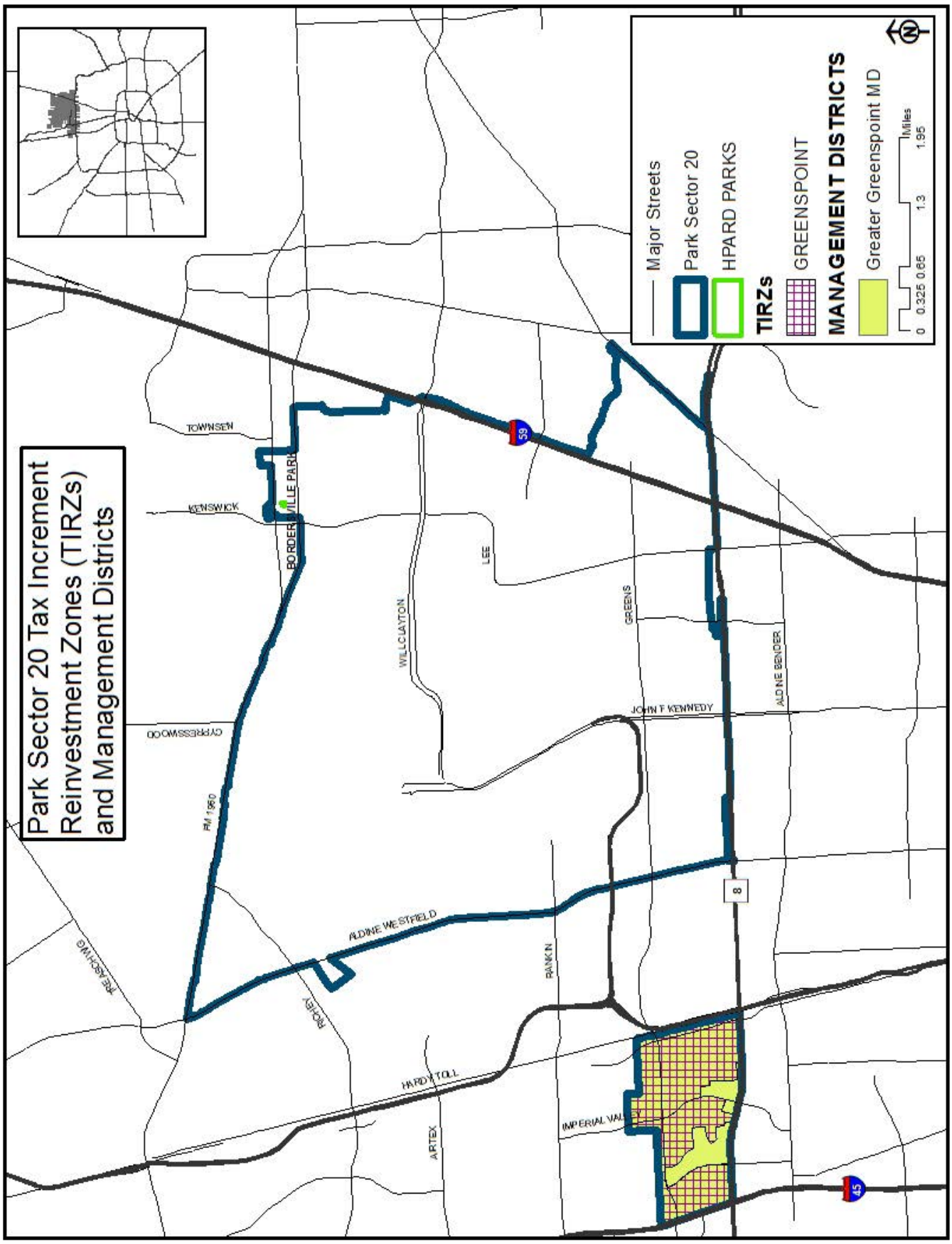


FIGURE 2: PARK SECTOR 20 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 20 Super neighborhoods

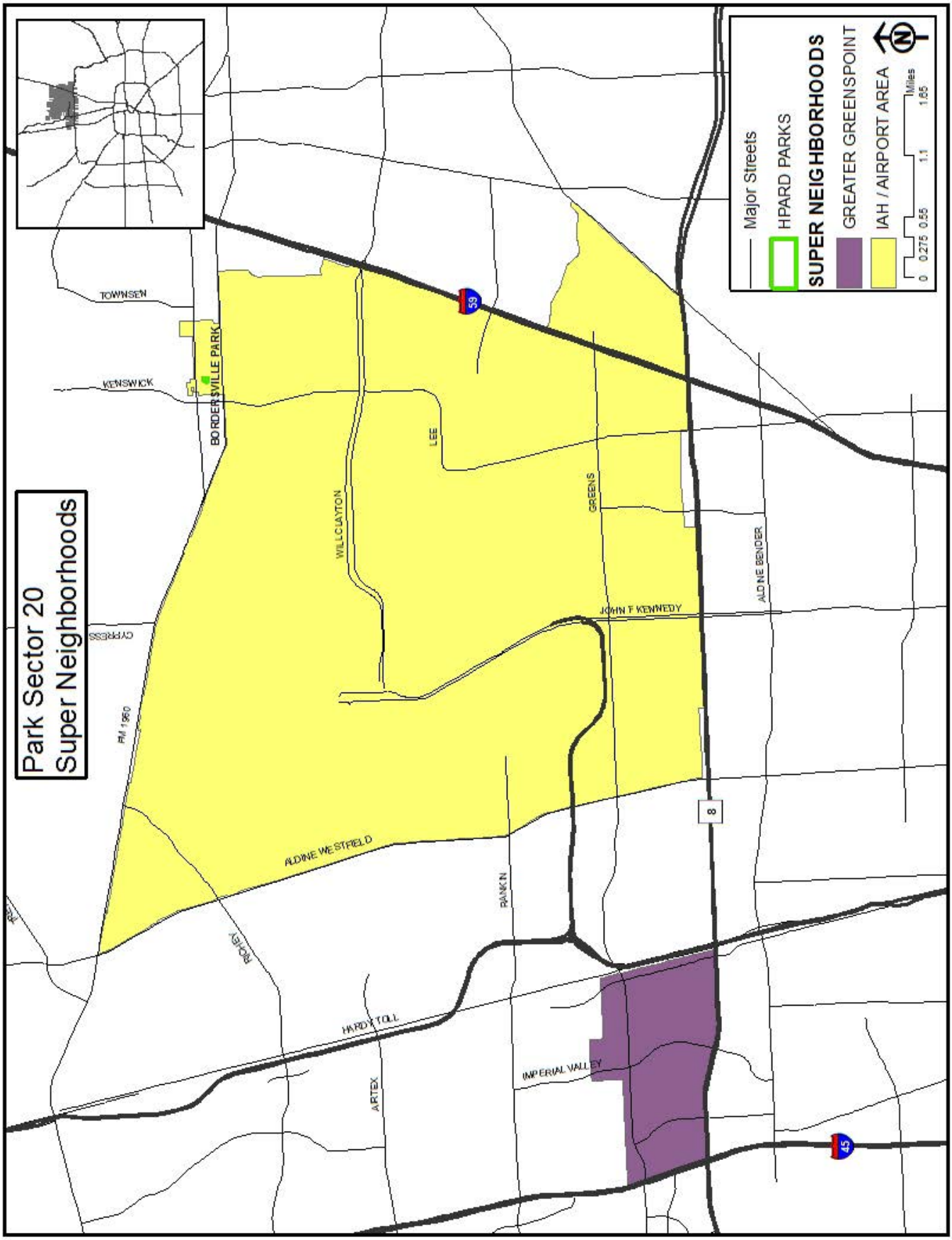


FIGURE 3: PARK SECTOR 20 SUPER NEIGHBORHOODS

Park Sector 20 Floodplain Areas

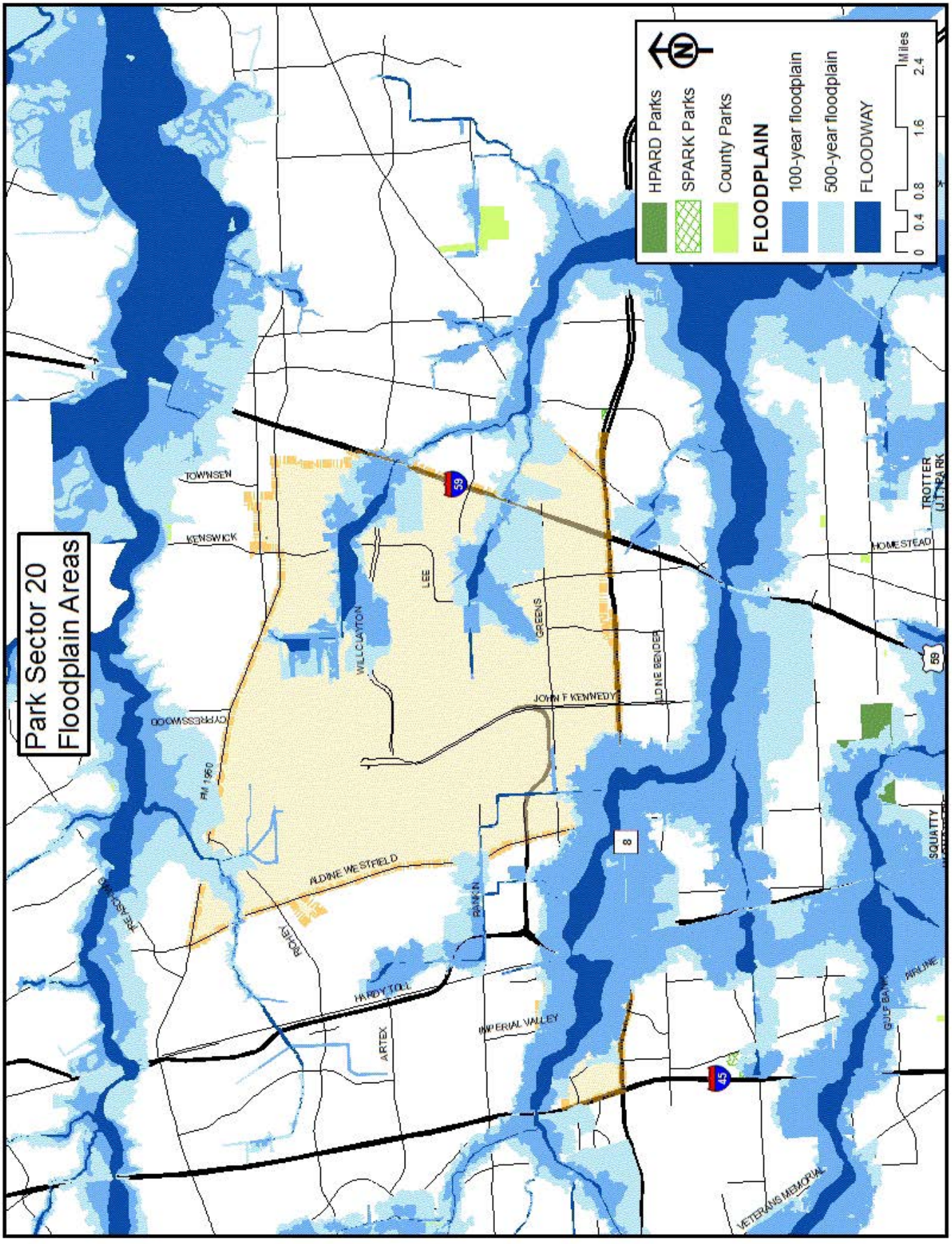


FIGURE 4: PARK SECTOR 20 FLOODPLAIN AREAS

PARK SECTOR 21

PARK SECTOR 21 SUMMARY

PARK SECTOR 21 PRIORITIES

These priorities were developed by using condition assessment information from site visits, standard-based needs analysis (NRPA standards and data provided by the Trust for Public Land ParkScore™ Project), and public input via an online survey, park user interviews, community events and Capital Improvement Plan (CIP) meetings.

1. Develop new park facilities
2. Develop Neighborhood connections to parks and trails
3. Acquire new parkland
4. Develop partnerships with the school system and other entities
5. Preserve environmentally sensitive areas
6. Revitalize existing parks

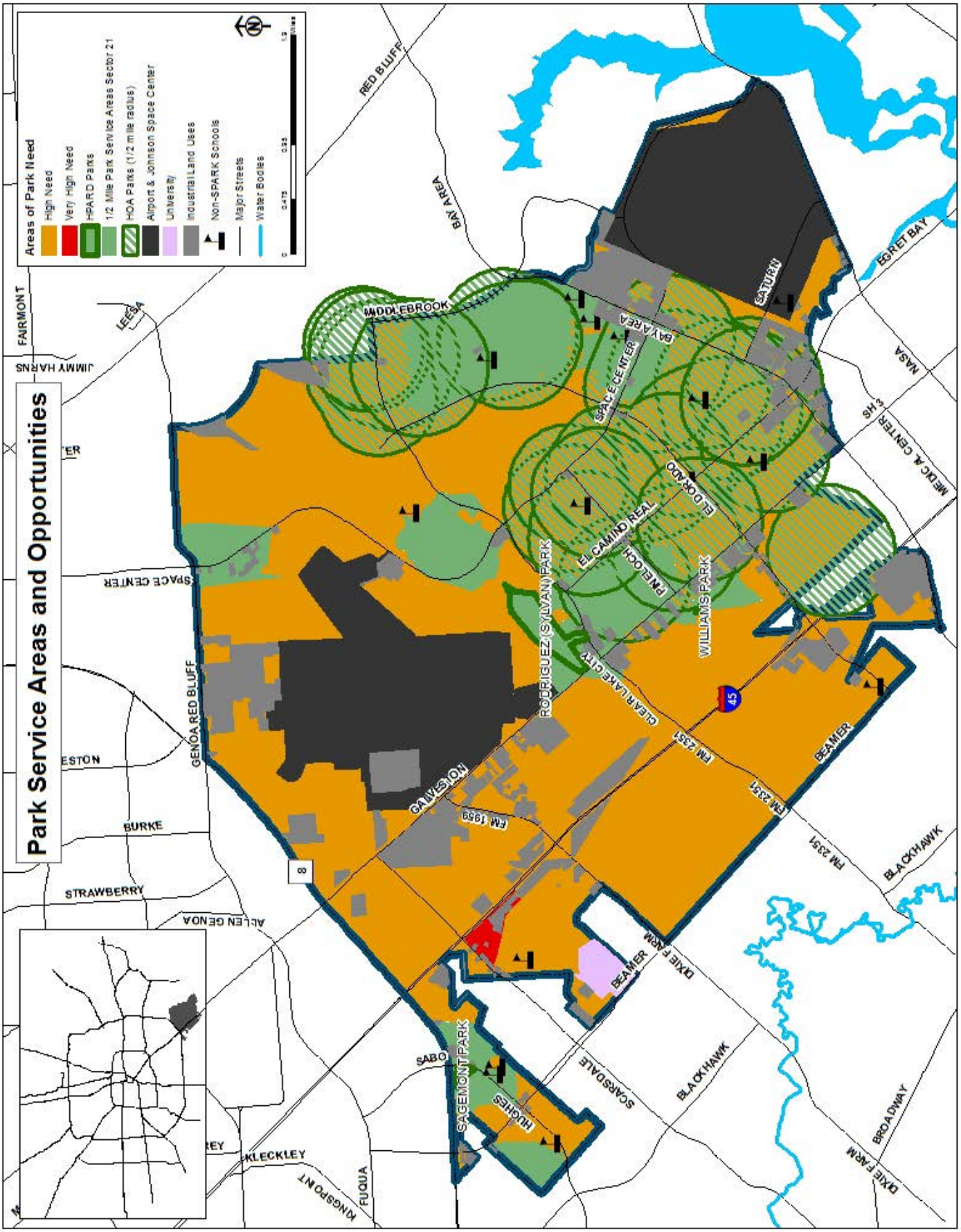
RECOMMENDATIONS

Williams Park in this Park Sector has the greatest need for redevelopment. However, the Sterling Knoll Association is responsible for maintenance until 2029. The only two other HPARD parks in this sector, Sagemont Park and Rodriguez (Sylvan) Park, both recently received renovations.

Currently, there is no need for additional parkland because of the low population in the area. However, there are areas of need with no access to parks, which are closest to Beltway 8, I-45 and Scarsdale. Schools not participating in the SPARK School Park Program (Non-SPARK schools) should be explored as potential future partnerships for park space. Areas west of I-45 and north of Dixie Farm Road would seem to particularly benefit from additional Spark Parks. There is a high percentage of undeveloped and agricultural land in this Park Sector which could be conserved for future park use. The development of private parks seems to be keeping up with the demand for parkland. Encouraging developers to continue to provide private parks in the new development would help to maintain the balance as this area grows. There are currently four trails maintained by the Home Owner Associations (HOAs) in this Park Sector.

This Park Sector is deficient in playgrounds, picnic shelters, trails, volleyball courts, dog parks, skate parks, community centers, spraygrounds, and softball fields. There is space at Rodriguez (Sylvan) Park for the possible development of amenities in the future. In the 2014 survey, the top three priorities of residents in Park Sector 21 when asked what recreational needs existed in their Neighborhood were: hike, bike and walk trails, open space and natural areas, and spraygrounds or swimming pool facilities. Other services and amenities that residents asked for in the write-in portion of the survey were: archery programs, outdoor environmental education and camping, fitness programs, swim lessons, fishing activities, arts and crafts programs, and youth nature programs.

Sources: 2010 Census, 2010 Health of Houston Survey, American Community Survey 2013, Houston Parks Board, HPARD 2014 Online Survey, Trust for Public Land ParkScore™ Project, 2040 H-GAC population projections by Park Sector


Park Service Areas and Opportunities
Areas of Park Need
High Need
Very High Need
HPARD Parks
1/2 Mile Park Service Areas Sector 21
HOA Parks (1/2 mile radius)
Airport & Johnson Space Center
University
Industrial Land Uses
Non-SPARK Schools
Major Streets
Water Bodies
RED BLUFF
BAY AREA
EGRET BAY
SATURN
MIDDLEBROOK
BAY AREA
SPACE CENTER
NASA
MEDICAL CENTER
EL DORADO
EL CAMINO REAL
PINELOCH
WILLIAMS PARK
RODRIGUEZ (SYLVAN) PARK
CLEAR LAKE CITY
FM 2351
BEAMER
FM 1959
GALVESTON
BLACKHAWK
DIXIE FARM
SCARSDALE
SAGEMONT PARK
SABO
HUGHES
BROADWAY
KLEECKLEY
FUQUA
KINGSPOINT
ALLEN GENOA
STRAWBERRY
BURKE
GENOA RED BLUFF
SPACE CENTER
JIMMY HARRIS
FAIRMONT
LEESA
45
8

EXISTING HPARD PARKS

Facility Name	Address	Street	Total Acres	Trail Length
Neighborhood Parks				
Sagemont Park	11507	Hughes	8.30	N/A
	Total HPARD Pocket Park Acreage		**8.30**	
Community Parks				
Rodriguez (Sylvan) Park	1201	Clear Lake City Blvd.	111.46	1.10
	Total HPARD Pocket Park Acreage		**111.46**	
	Total HPARD Park Acreage		**119.80**	
	Total HPARD Trail Length			**0.37**

EXISTING COMMUNITY CENTERS AND POOLS

Community Centers and Pool Facilities	Address	Zip Code	Agency Responsible
Clear Lake Neighborhood Pools	Various Locations	Various	HOAs/Neighborhood Associations
Sagemont Community Center and Pool	11507 Hughes	77089	HPARD

PARK SERVICE AREAS

The Park Service Area map was produced using data provided by the Trust for Public Land ParkScore™ Project to show areas of park need. The green areas represent a ½ mile service area of public parks (city or county) and SPARK Parks (school parks open to the public after school) or other publicly accessible non-HPARD Parks.

The orange and red represent areas where there is not access to a park within a ½ mile. The degree of need (red is very high need and orange is high need) is based on population density, household income (less than $35,000), and presence of youth (19 yrs or younger). The office and industrial land uses are represented in gray, to specifically highlight residential and commercial areas of need. Because of the development of private parks, most of the single family residential areas have access to park maintained by the HOAs. Non-SPARK schools are indicated on the map as black flags to explore as potential future partnerships for park space.

PARK SECTOR FACTS

- This Park Sector contains 328 acres of parkland (Harris County, HPARD & other providers). Of the 21,111 acres in this Park Sector, 2% of this acreage is parkland.
- There are approximately 72,000 residents, almost 55% of the population is Non-Hispanic White.
- According to the parkland standards of people per 1,000 acres of parkland, there is no need for additional parkland because of the low population in the area. Due to the low population density of this Park Sector, some areas still show a need closest to Beltway 8 and around I-45 and Scarsdale; however, many of these areas have very little or no residential development.
- Park Sector 21 has a total of 7 miles of trails. There are four trails maintained by the HOAs.
- H-GAC population projections estimate that this area will add over 20,000 residents by 2040. To meet the parkland needs for the estimated 2040 population an additional 8 acres of parkland will be needed.

NEEDS ASSESSMENT FOR AMENITIES IN PARK SECTOR

The table below shows the total existing amenities (including, HPARD, County and SPARK Parks) as of 2015, the target goal per amenity, and the amenities needed based on population standards for each amenity using 2010 US Census Population. The last row shows the estimated number of amenities needed based on the H-GAC population projections for 2040 and amenity standards used in the 2007 Parks Master Plan.

AMENITY	PLAYGROUNDS	PICNIC SHELTERS	TRAILS (MILES)	OUTDOOR BASKETBALL COURTS	TENNIS	VOLLEYBALL	DOG PARKS	SKATE PARKS	COMMUNITY CENTERS	SWIMMING POOLS	OUTDOOR SPRAYGROUNDS	BASEBALL (LIT and UNIT)	SOFTBALL (LIT and UNIT)	SOCCER (LIT and UNIT)
2015 Goal	18	7	14	6	32	2	1	1	3	13	1	8	2	10
2015 Existing	15	3	7	6	32	0	0	0	1	13	0	8	1	10
2015 Needed	3	4	7	-	-	2	1	1	2	-	1	-	1	-
2040 Needed	5	2	4	2	-	1	-	-	-		-	-	1	-

GUIDE FOR ESTIMATED COST OF NEW AMENITIES, PARKLAND, AMENITY RENOVATIONS AND OPERATION AND MAINTENANCE FOR PARK SECTOR

The table below contains costs estimates (in 2015 dollars) based on the needs assessment using 2010 US Census population and population projections provided by H-GAC per Park Sector for 2040, for both amenities and land in this Park Sector. In addition, the cost estimates (in 2015 dollars) for renovation of existing facilities and operation and maintenance are listed. A general explanation of each figure and its source is listed below:

1. Cost of New System Amenities: This is the estimated cost for amenities based on the needs assessment above. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects. These costs are a guide and do not include site specific constraints such as utility extensions, flood mitigation or the purchase of land if expansion of the park was needed for these amenities.

2. Cost of Park Land: This is the land needed to meet the parkland standards for 2015 and 2040 based on the 2010 US Census and the H-GAC estimated population projections respectively. Land costs are based on land values by Park Sector, provided by H-GAC, from 2014 HCAD values for properties greater than 5,000 sq ft in size and with no structures.

3. Cost of HPARD Amenity Renovation: The 2015 cost estimate is based on the assessment that 30% of the existing facilities in this Park Sector need renovation. The 2040 cost estimate is based on the assessment that the remaining 2/3 of the facilities from 2015 and 30% of the new facilities will need renovation to meet the population growth. Costs are estimated for 2015 and 2040 based on costs of 2014 HPARD projects.

4. Annual Operation & Maintenance: This figure is based on the national average for parks and recreation operational spending amount ($63) per resident in 2013 according the Trust for Public Land publication "2014 City Park Facts." Houston spent $29 per resident on parks and recreation in 2013. This figure shows what the cost of spending this average amount per resident would be based on the current population and the projected population in 2040.

	1	2	3	4
	COST OF NEW SYSTEM AMENITIES	COST OF NEW PARK LAND	COST OF HPARD EXISTING AMENITY RENOVATION	ANNUAL COST OF OPERATION AND MAINTENANCE
2015	$18,000,000	0 Acres- $0	$5,000,000	$5,000,000
2040	$15,000,000	8 Acres- $520,000	$19,000,000	$1,000,000
TOTAL 2040	$33,000,000	$520,000	$24,000,000	$6,000,000

PARK SECTOR PROFILE 21

LOCATION AND POLITICAL BOUNDARIES

Park Sector 21 is located southeast of Beltway 8 and runs through 45.
Park Sector Size: 21,110.8 acres or 33 square miles
Population: 71,786 people, Density: 1,725 persons/sq. mi.
Political Boundaries within Park Sector 21:

- Council Districts: E and D
- Super neighborhoods contained in this Park Sector: South Belt/ Ellington and Clear Lake
- TIRZ: N/A
- Management Districts: HCRID 1 and Baybrook

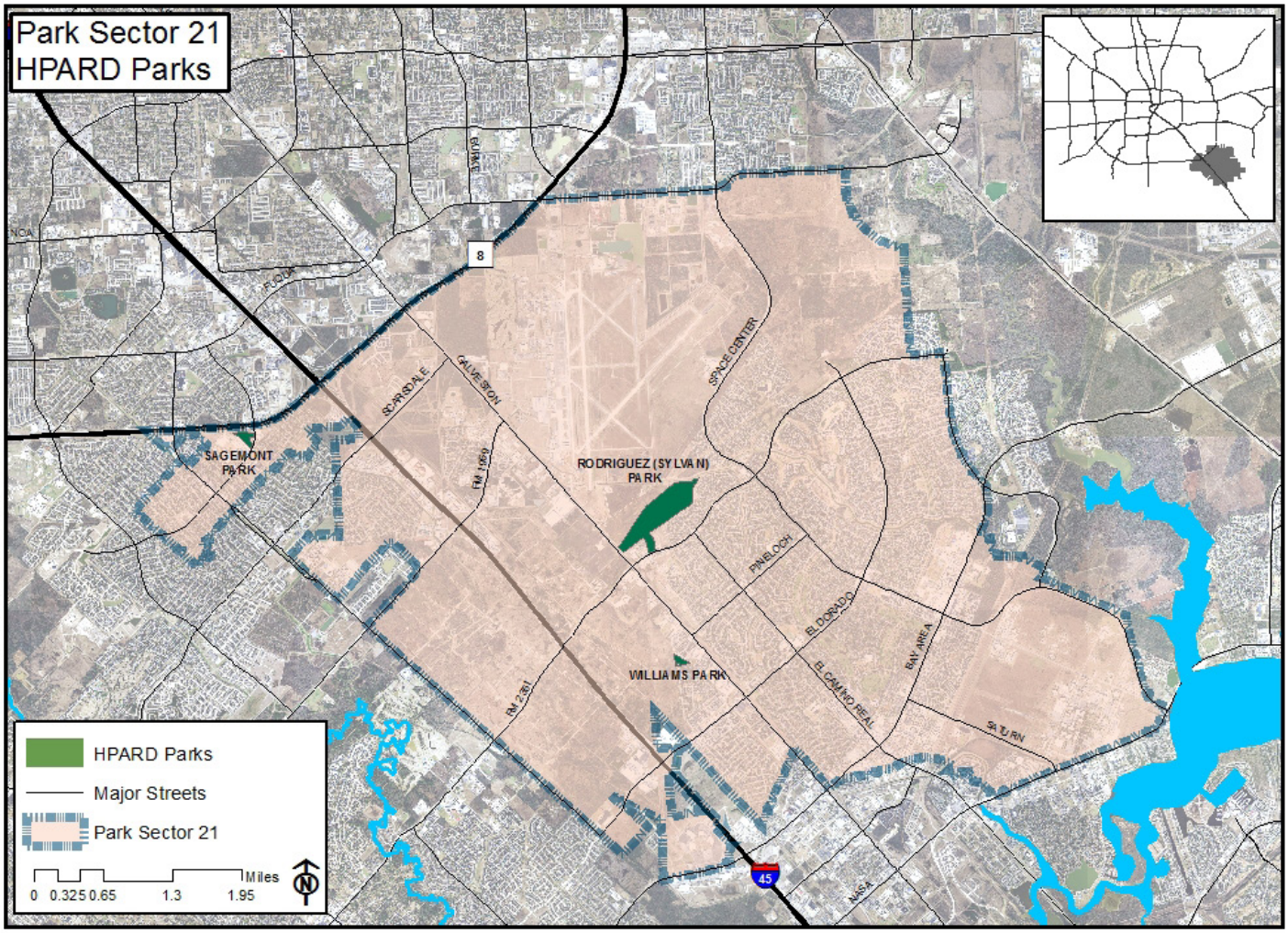


FIGURE 1. PARK SECTOR 21 BOUNDARY AND HPARD PARKS

DEMOGRAPHIC PROFILE

Ethnicity

	Park Sector 21 Population	Park Sector 21 Percent of Total	Houston Population	Houston Percent of Total
Total Population	**71,786**	-	**2,119,831**	-
Hispanic or Latino	16,760	23.3%	919,668	43.8%
Non-Hispanic White	38,480	53.6%	537,901	25.6%
Non-Hispanic Black	5,641	7.9%	485,956	23.1%
Non-Hispanic American-Indian	206	0.3%	126,098	6.1%
Non-Hispanic Asian	9,110	12.7%		
Non-Hispanic Hawaiian or Pacific Islander	46	0.1%		
Non-Hispanic Some Other Race	1,543	2.1%	26,828	1.3%

TABLE 1. PARK SECTOR 21 ETHNICITY (2010 CENSUS & CITY OF HOUSTON PLANNING AND DEVELOPMENT DEMOGRAPHIC DATA)

This Park Sector contains almost 4% of the population of Houston. The majority (53.6%) of residents are Non-Hispanic Whites followed by Hispanic/Latinos (23.3%), Non-Hispanic Asians (12.7%) and Non-Hispanic Blacks (7.9%). The majority of residents in this Park Sector live northeast of IH-45 in single-family communities.

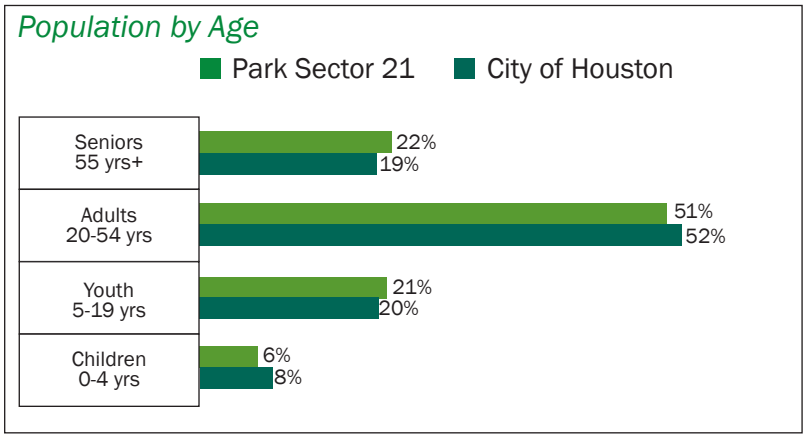


FIGURE 2. CITY OF HOUSTON VS. PARK SECTOR 21 AGE CITY OF HOUSTON ORTS BY HPARD PROGRAM AGES (2011 AMERICAN COMMUNITY SURVEY, CITY OF HOUSTON PD)

The age profile for this Park Sector shows that the percent of population under 19 is slightly lower (27%) than that of the rest of the city (28%). Further breakdown of the age groups, as shown on Figure 2, reveals that the percent of seniors 55+ years of age (22%) is slightly higher than the rest of the City of Houston (19%) respectively. However, the distribution of age groups in this Park Sector generally mirrors the same pattern as the entire City of Houston. These demographic trends can help inform future programming and park improvements.

Program Group	Age Groups	PS 21 Population	PS 21 Percent of Total	Program Age Group	City of Houston Population	City of Houston Percent of Total	Program Age Group
Children	0-4 yrs	4,671	6%	6%	166,066	8%	8%
Youth	5-9 yrs	4,854	7%	21%	148,843	7%	21%
	10-14 yrs	5,377	7%		135,622	7%	
	15-19 yrs	5,057	7%		140,673	7%	
Adults	20-34 yrs	15,993	22%	51%	539,348	26%	52%
	35-44 yrs	9,691	13%		286,117	14%	
	45-54 yrs	11,686	16%		265,060	13%	
Senior	55-64 yrs	8,466	12%	22%	204,852	10%	19%
	65 yrs +	7,244	10%		192,689	9%	

TABLE 2. CITY OF HOUSTON VS. PARK SECTOR 21 AGE CITY OF HOUSTON ORTS WITH FURTHER BREAKDOWN FOR ALL PROGRAM AGE GROUPS

Housing

There are a total of 30,026 housing units in this Park Sector. The percent of vacant housing in Park Sector 21 (6.7%) is significantly lower as compared to the vacancy rates for the entire city (12.3%). Home ownership for this Park Sector (57.1%) is higher than that of the City of Houston (39.7%) and the share of renters (36%) is lower than the city as a whole (47.1%).

Income

The median household income for this Park Sector ($70,948) is significantly higher than that of the City of Houston ($48,322). The median household income is the second highest among the twenty-one Park Sectors. Twenty-four (24%) or 14,655 of the households in this area have an income below the Houston median household income.

Educational Attainment

Within Park Sector 21 the percent (43%) of individual 25+ years of age with a Bachelor's degree or above is significantly higher than the relative percent for the entire City of Houston (28%). Conversely, the percentage of those within this Park Sector without a high school degree (9%) is lower than the same population for the City of Houston (25%).

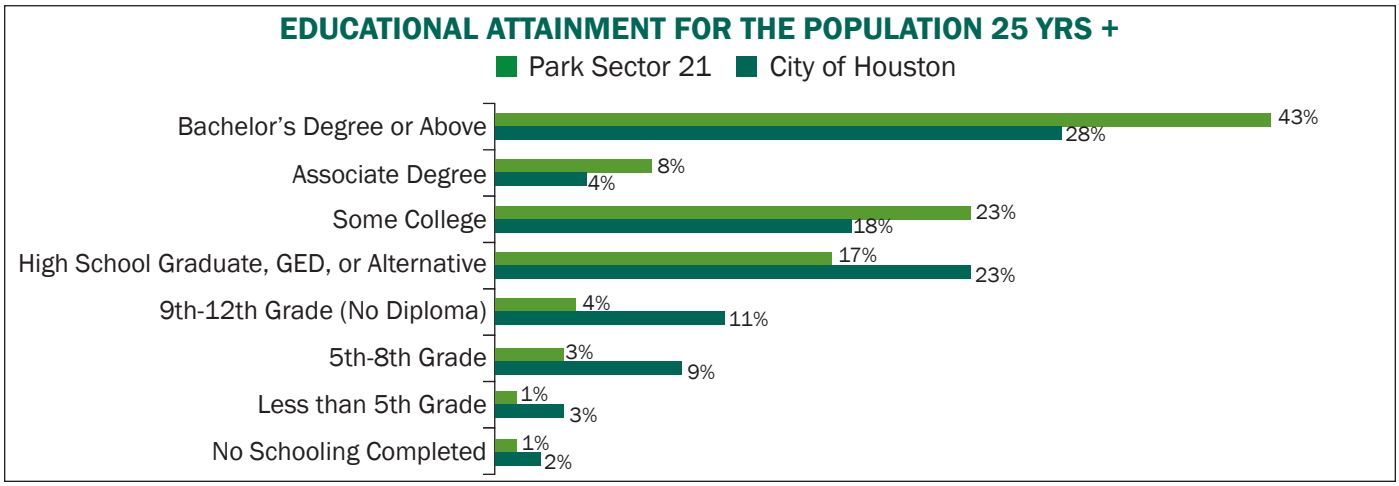


FIGURE 3. EDUCATIONAL ATTAINMENT (2011 CITY OF HOUSTON PD)

Community Health

The Health of Houston Survey 2010 data (aggregated by Park Sector by the Houston Department of Health and Human Services) shows that 17.1% of the adult population in this Park Sector is considered obese, as compared to 30.8% for the entire population of the City of Houston. The survey also showed that 5.2% of the adult population received a diagnosis of diabetes by a professional, which is less than half of the level for the entire city (11.4%). In addition, this survey inquired about physical activity level and the results indicate that over 34% of the respondents in this Park Sector engage in a moderate physical activity for 5 or more days a week, which is about the same as that of the entire city (32%). The national initiative, Healthy People 2020, has a goal to increase the amount of adults who engage in moderate physical activity for at least 5 days a week for 30 minutes to 47.9% of the population. The current national average of adults engaging in this level of aerobic activity is 43.5%.

Finally, the survey shows that 16.4% of the population does not engage in moderate physical activity at all, which is lower than the rate for the entire city (21.2%). As HPARD plans and prioritizes investments for future parks and trails, it should take into account the accessibility of parks, amenities provided and the impact to the health of the community in the long term. HPARD is an active participant in the Healthy Communities Initiative, Community Transformation Initiative, Healthy Kids Houston, and the Sustainable Communities Houston-Galveston Regional Plan, among other efforts. This involvement should continue with an emphasis on partnerships, measurable outcomes, and engagement with the community to encourage physical activity and help identify physical barriers to park access.

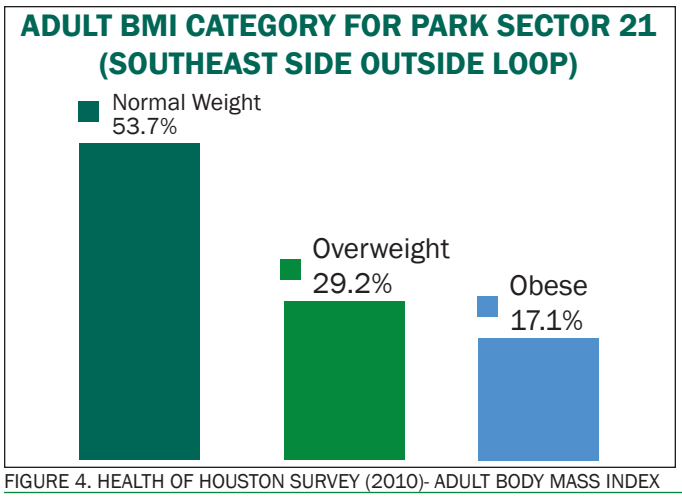


FIGURE 4. HEALTH OF HOUSTON SURVEY (2010)- ADULT BODY MASS INDEX

Moderate Physical Activity in the Last Seven Days	Percentage (%)
0	16.40
1	3.50
2	12.20
3	21.10
4	12.30
5	13.80
6	6.30
7	14.40

TABLE 3. Health of Houston SURVEY (2010)- MODERATE PHYSICAL ACTIVITY

LAND USE ANALYSIS

	Number of Parcels	Percent of Parcels	Acreage of Parcels	Percent of Acreage
Single-Family	19,181	84.1%	3,748	19.8%
Multi-Family	1,803	7.9%	443	2.3%
Commercial	317	1.4%	700	3.7%
Office	130	0.6%	210	1.1%
Industrial	118	0.5%	701	3.9%
Public & Institutional	145	0.6%	2,647	14.0%
Transportation	101	0.4%	2,951	15.6%
Parks & Open Space	108	0.5%	1,065	5.6%
Undeveloped	404	1.8%	1,838	9.7%
Agriculture Production	411	1.8%	4,639	24.5%
TOTAL	22,803	100%	18,941	100%

TABLE 4. LAND USE BY DESCRIPTION (2012 HCAD)

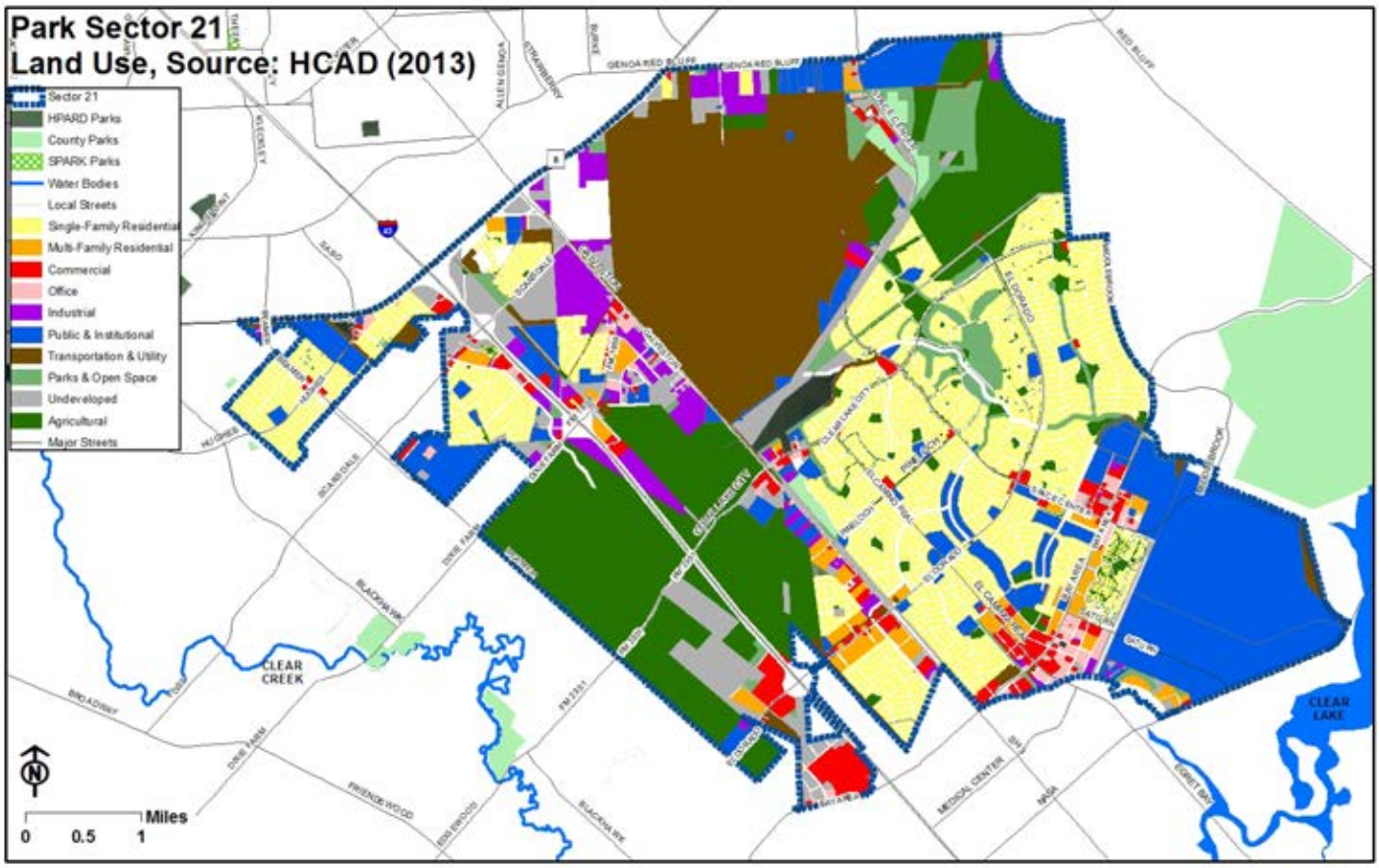


FIGURE 5. PARK SECTOR 21 LAND USE MAP (2013 HCAD) AND HPARD, COUNTY, AND SPARK PARKS

In Park Sector 21 while most of the parcels (92%) are residential, single family and multi-family account for only about one fifth (22.1%) of the acreage. Almost a quarter (24.5%) of the acreage is classified as agricultural. Ellington Field is shown in brown and accounts for most of the transportation land use acreage (15.6%). Johnson Space Center is also located in this Park Sector and this complex accounts for the majority of the Public and Institutional acreage (14%) shown in blue in Figure 5.

HPARD PARKS AND TRAILS

Facility Name	Address	Street	Total Acres	Trail Length
Neighborhood Parks				
Sagemont Park	11507	Hughes	8.30	N/A
Total HPARD Neighborhood Acreage			**8.30**	
Community Parks				
Rodriguez (Sylvan) Park	1201	Clear Lake City Blvd.	111.46	1.1
Total HPARD Community Acreage			**111.46**	
	Total HPARD Park Acreage		**119.80**	
	Total HPARD Trail Length			**1.1**

TABLE 5. HPARD PARKS, ACREAGE, AND TRAILS INTERNAL TO HPARD PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 21

Other Parks

Facility Name	Address	Street	Total Acres	Trail Length
Williams Park	15000	McConn Street	2.89	N/A

This Sterling Knoll Association maintains the park and indoor pool according to a lease agreement ending in 2029.

The Houston Parks and Recreation Department operates 2 parks in the area accounting for 119.8 acres of parkland. The maintenance for Williams Park, while owned by HPARD, is performed by the Sterling Knoll Association. The Pine Brook Community Association partnered with the Houston Audubon Society to restore 14.51 acres of wetlands and prairie in the Pine Brook community. The wetlands are now open and accessible to the public for wildlife viewing. The Pine Brook Community Association also maintains another park of 1.1 acres. The Clear Lake City Community Association maintains 6 parks for a total of 37.3 acres. The Middlebrook Homeowners Association maintains a 13.8 acre park. The Pineloch Community Association maintains 5 parks that total 17.4 acres. Piper Meadow's Community Improvement Association maintains a 5.2 acre park. The Brook Forest Homeowners Association maintains a 12.9 acre park.

The former Clear Lake City Golf Club, a 178 acre site, was purchased in 2011 by the Clear Lake City Water Authority for the purposes of flood control. However, an advisory group was formed that created a master plan for the property that will include 2 sports fields, hike and bike trails, and wetlands. The project will be phased out over 15 years into different stages; funding and further input is currently being acquired. The concrete date for beginning implementation of the project is still unknown at this time. While there are currently no amenities, trails from the previous golf course serve as de facto walking and cycling trails for the community.

There are four (4) trails maintained by the HOA's: 1.12 mile trail in North Folk subdivision trail, 2.43 trail in Middlebrook Subdivision, 1.2 mile trail in Bay Knoll Subdivision and the 1.1 mile Clear Lake Hike and Bike Trail along Clear Lake High School which was maintained by the City of Houston until the maintenance agreement expired in 2005.

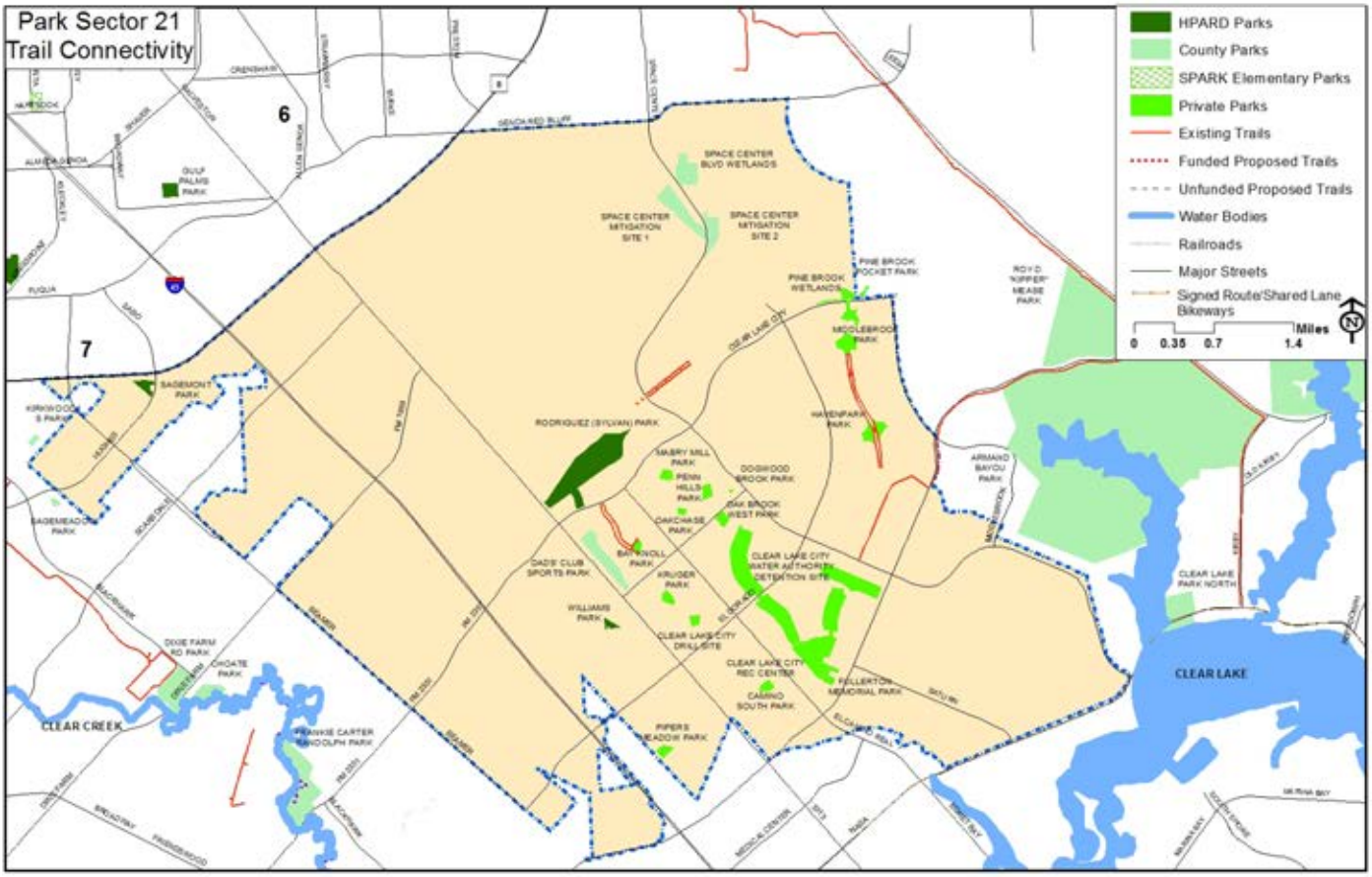


FIGURE 6. PARK SECTOR 21 BAYOU TRAILS, ON- AND OFF-STREET BIKEWAY SYSTEM (PWE), HPARD, COUNTY, SPARK, PRIVATE PARKS, BIKE/PED BRIDGES AND LIGHT RAIL

County Parks and Trails

Harris County operates 4 parks in the area accounting for 103.4 acres of parkland; it also maintains the 5.6-mile Bay Area Hike and Bike Trail of which 0.5 miles are inside this Park Sector.

County Park				
Facility Name	**Address**	**Street**	**Total Acres**	**Trail Length**
Dad's Club Sports Park	14500	Village Evergreen Trail	34.00	N/A
Space Center Blvd Wetlands			24.00	N/A
Space Center Mitigation Site 1			30.00	N/A
Space Center Mitigation Site 2			15.43	N/A
Bay Area Hike and Bike Trail (5.2 miles total)	7500	Bay Area		0.5
		Total HC Park Acreage	**103.43**	
		Total HC Trail Length	**(inside PS 21)**	**0.5**

TABLE 6. TRAILS INTERNAL TO COUNTY PARKS, BAYOU AND URBAN/SHARED USE TRAILS IN PARK SECTOR 21

SPARK Parks

There are no SPARK Parks within Sector 21.

Open and Green Space

To determine level of service, the 2007 Master Plan outlined standard distances based on park classification as well as population. Analysis in this section will be done based on population (acres/1,000 people) as well as park accessibility within a ½ mile radius using data provided by The Trust for Public Land ParkScore™ Project. The table below shows the level of service (LOS) based on the 2007 HPARD recommended standards of a number of acres per 1,000 people using the 2010 Census population. According to the HPARD recommended standards per park type (2007 HPARD Master Plan Criteria Facility Needs): this Park Sector meets the need for Pocket Parks, Neighborhood, and Community Parks. The acreage for Regional Park is accounted for in the city-wide analysis.

Park Type	HPARD Park Number	HC Park Number	HPARD Acreage	County Acreage	Other Providers	Total Park Acreage	HPARD Recommended Standard	Current HPARD LOS	Current Total Inventory LOS	HPARD NEED (2010 Population)	Total Inventory NEED 2010 Population
							Population			71,786	
Pocket Park (<1 acre)	0	0	0.00	0	1.44	1.44	0.005 ac/1,000 people	0.00	0.00	0.36	-1.08
Neighborhood Park (1-15 acres)	2	0	8.3	0	103.6	112	1 ac/1,000 people	0.12	1.56	63.5	-40.1
Community Park (16-150 acres)	1	4	111.46	103.43	0	214.89	1.5 ac/1,000 people	1.55	2.99	-3.78	-107.21
Regional Parks (150+ acres)	0	0	0	0	178	178.00	8.0 ac/1,000 people				
TOTAL	3	4	119.8	103.4	105.1	328.3	19 acres/ 1,000			63.8	-148.5

TABLE 7. PARK SECTOR 21 HPARD LOS AND PARKLAND NEED ANALYSIS
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Another way to measure the level of service provided by parks is by looking at a "walkable" distance (1/2 mile radius) from the park regardless of the size of this park. The Rice University Shell Center for Sustainability published the Houston Sustainable Development Indicators: A Comprehensive Development Review for Citizens, Analysts, and Decision Makers and used ¼ of a mile distance of persons living from a park as a sustainability indicator for quality of life and determined that 44% of residents have access to a public space (King 2012). The Trust for Public Land (Trust for Public Land (TPL)) ParkScore™ Project study mapped the park needs of the City of Houston based on accessibility by density, age, and income. The methodology used by Trust for Public Land (TPL) ParkScore™ Project factors in the accessibility to a public park within ½ mile considering freeways and major thoroughfares as barriers to park access. Trust for Public Land (TPL) ParkScore™ Project found that 45% of residents have access to public spaces (Trust for Public Land (TPL) 2012). The map was produced using data provided by Trust for Public Land (TPL) ParkScore™ Project. The areas in green on the map below represent the area within ½ mile of existing parks not blocked by freeways or major roads; the hatched area represents the service area of various homeowner association parks (owned, developed and maintained by the various homeowners association in this area) that were not accounted for when the Trust for Public Land (TPL) ParkScore™ data was produced. These 18 parks provide a significant amount of coverage for the Park Sector. Roughly 62% of the live/play areas (residential= yellow and orange and some commercial= red) in this Park Sector are not served by a park, which is much higher than that of the entire city (55%). This percentage was calculated by subtracting the areas served, industrial areas, and acreage of airports, the Johnson Space Center, and private parks from the total acreage of the Park Sector. However, even this percentage is somewhat high considering a large portion of the Park Sector is agricultural land. The majority of residential areas are served; however, there are small Pockets of residential development in the northern portion of the Park Sector that are not being served by a public or a private park. The hatched areas are not accounted in the percentage for the areas served at this time, so the service area percentage is underestimated.

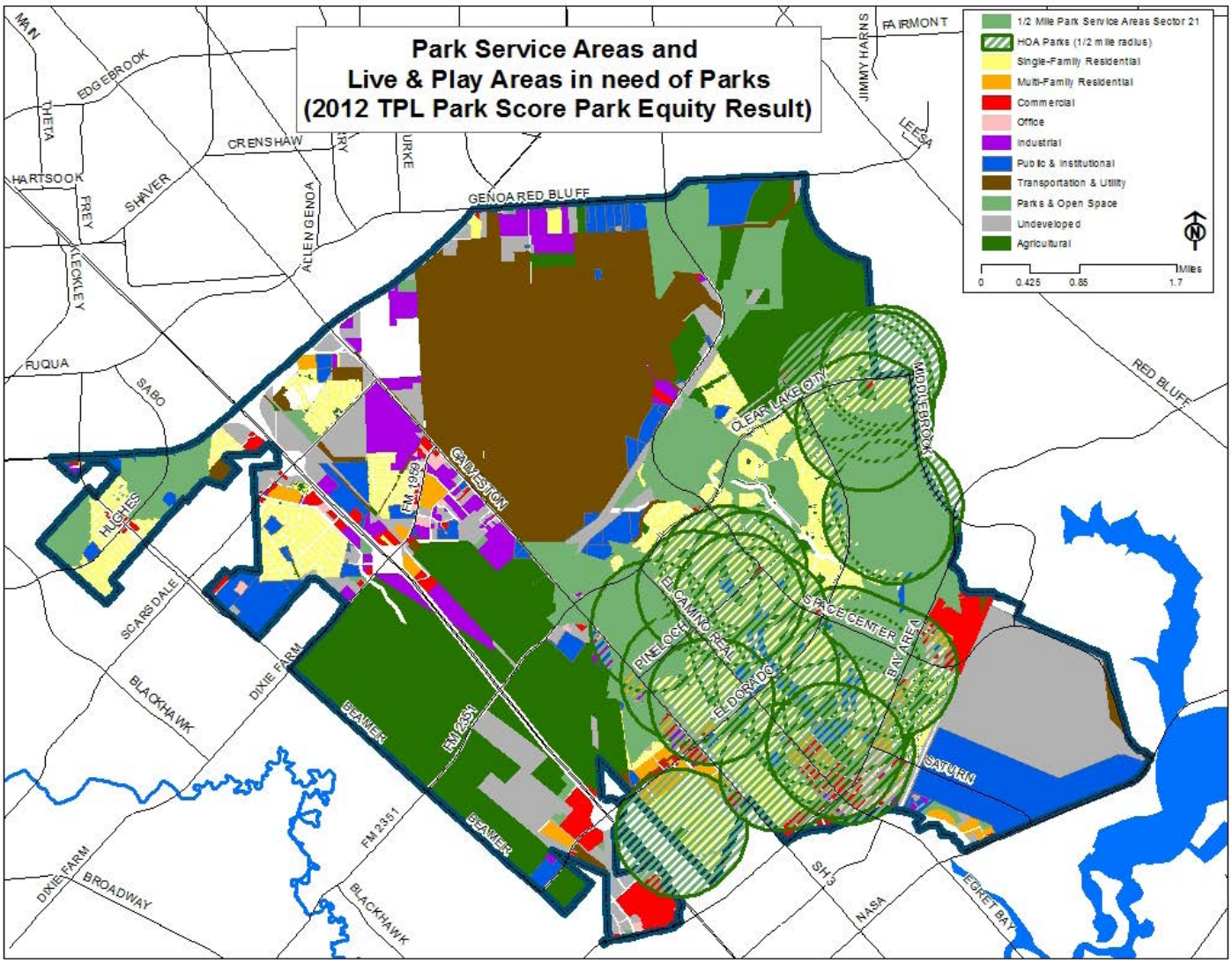


FIGURE 7. PARK SECTOR 21 PARK SERVICE AREAS (1/2 MILES ACCESS) AND LIVE/PLAY AREAS OF NEED

AMENITIES AND SERVICES

This map shows some of the community services available in this area: a community center, bus routes, schools, library & YMCAs. There is one community center located in Park Sector 21: Sagemont Community Center.

The United Way office building in Galveston County houses a number of charities for this area. The Bay Area Council on Drugs and Alcohol is located in this building and is a non-profit organization affiliated with the United Way that provides the following services: assessments and screenings, referrals, interventions, drug testing, and youth prevention education. Another charity in this building is the Catholic Charities of the Archdiocese of Galveston-Houston. This religious charity provides mental health services, disaster recovery support, pregnancy services and post-natal care, refugee resettlement, immigration legal services, affordable home ownership education, transitional housing for women and children fleeing domestic violence, veterans assistance, senior support services, adoption services, foster care services, and housing for unaccompanied refugee minors. The Greater Houston Chapter of the American Red Cross also occupies the United Way Building and provides disaster relief to families affected by home or apartment fires, community disaster education, CPR classes, and transportation services.

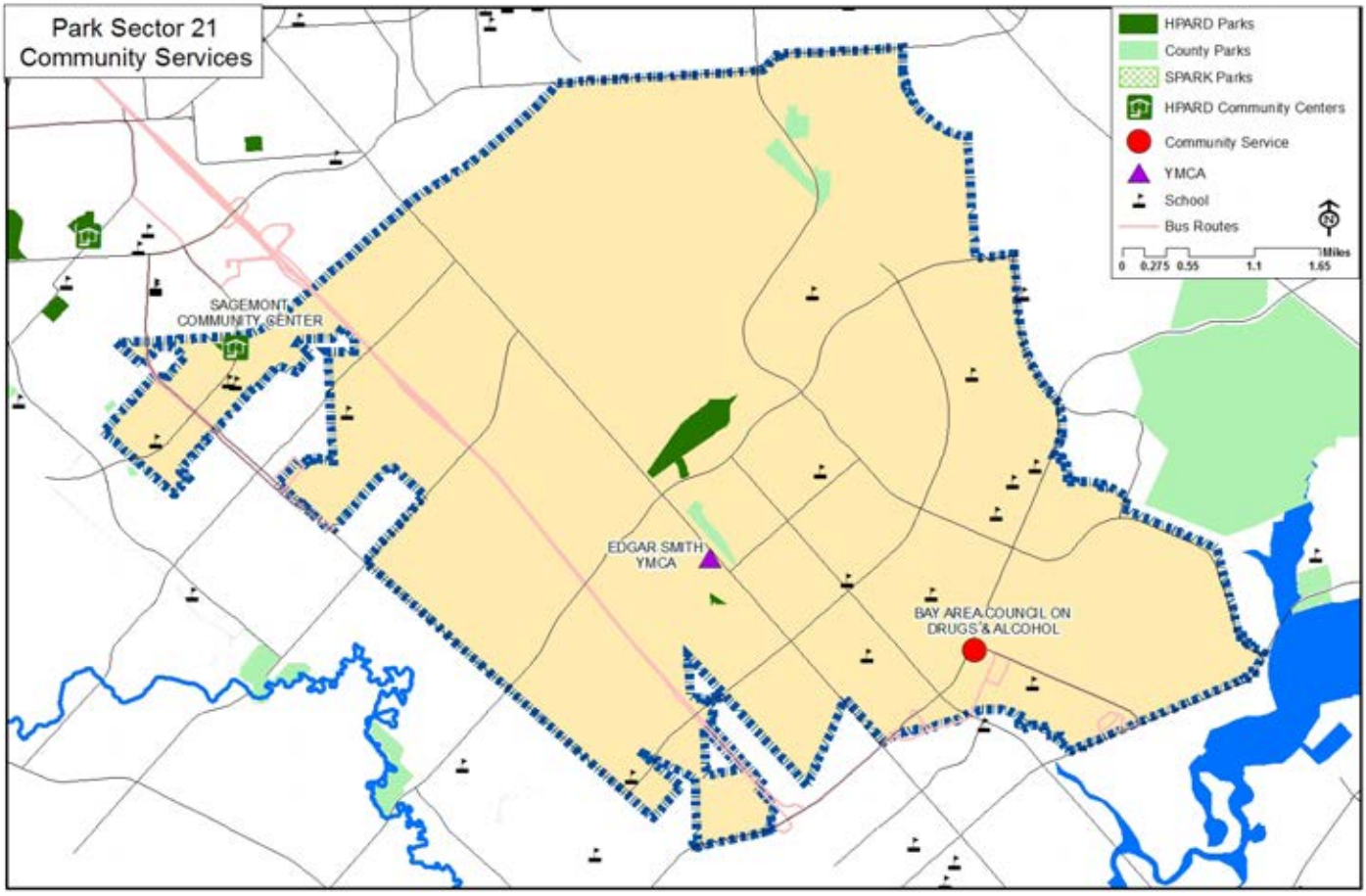


FIGURE 8. PARK SECTOR 21 COMMUNITY SERVICES AND PUBLIC TRANSIT

Amenities - Level of Service

The HPARD standards by amenity have been applied to the amenities in Park Sector 21. The standard for each amenity is then compared to the 2010 Census population data for this Park Sector to determine if the standard has been met or if more amenities are needed. The last two columns show the number of facilities needed to meet the standard using HPARD inventory only and using all providers in the Park Sector. According to these standards HPARD, Harris County and other providers are meeting the needs of the residents for the following facilities: swimming pools, baseball fields, and soccer fields. This Park Sector is deficient in playgrounds (1), picnic shelters (4), trails (7 miles), volleyball courts (2), dog parks (1), skate parks (1), community centers (1), outdoor spraygrounds (1), and softball fields (1).

The Clear Lake City Community Association has facilities that are open to the public, so long as the fee is paid for either membership or use of the facilities. The facilities include: 3 swimming pools, a playground, and 4 tennis courts. The Brook Forest Community Association maintains Havenpark Park with 4 tennis courts, a pavilion, a playground and a pool; however, these facilities are open only to those in the Brook Forest Home Owners' Association. The Pine Brook Community Association also provides 2 tennis courts, basketball court, playground, and a pool for members of their Home Owners' Association. The Middle Brook Community Association maintains a park with a pool, 4 tennis courts, trail, playground, 2 full basketball courts, and a pavilion. Piper's Meadow Community Improvement Association maintains a pool, 2 tennis courts, a playground, and a basketball court free of charge for its residents. Thus, given that these facilities are available only for a fee, and in some cases only to a certain segment of the population, they were not included in the level of service analysis below. However, as we assess the need for future facilities, we will consider facilities in these areas as a lower priority than those communities which do not have any of these amenities accessible.

	HPARD	Harris County	Other Providers	Total	Recommended HPARD Standard		Current HPARD Level of Service		Current Total Inventory Level of Service		HPARD NEEDS Over/ Under Service	Total Inventory NEEDS Over/ Under Standard
						Population		71,786				
Playgrounds	3	0	12	15	1	4,000	1	23,929	1	4,786	15	3
Picnic Shelters	1	0	2	3	1	10,000	1	71,786	1	23,929	6	4
Trails	1.1	0.5	5.85	7	0.2	1,000	0.02	1,000	0.10	1,000	13	7
Outdoor Basketball Courts	1	0	5	6	1	12,000	1	71,786	1	11,964	5	0
Tennis	4	0	28	32	1	10,000	1	17,947	1	2,243	3	-25
Volleyball	0	0	0	0	1	50,000	0	71,786	0	71,786	2	2
Dog Parks	0	0	0	0	1	100,000	0	71,786	0	71,786	1	1
Skate Parks	0	0	0	0	1	100,000	0	71,786	0	71,786	1	1
Community Centers	1	0	0	1	1	30,000	1	71,786	1	71,786	1	2
Swimming Pools	1	0	12	13	1	50,000	1	71,786	1	5,522	1	-12
Outdoor Spraygrounds	0	0	0	0	1	100,000	0	71,786	0	71,786	1	1
Baseball (Lit & Unlit)	0	7	1	8	1 field	30,000	0	71,786	1	8,973	2	-6
Softball (Lit & Unlit)	0	0	1	1	1 field	30,000	0	71,786	0	71,786	2	1
Soccer (Lit & Unlit)	0	8	2	10	1 field	10,000	0	71,786	1	7,179	7	-3

TABLE 8. LEVEL OF SERVICE FOR AMENITIES IN PARK SECTOR 21
A negative number in the last two columns means there is a surplus, a positive number means there is a need.

Status of Projects (POS/CIP/CDBG/Grants)

- In 2006 Rodriguez (Sylvan) Park received CIP funds to clear and grade brush vegetation for informal paths throughout the park, add a new concrete looping jogging trail through the eastern section of the park, create two Lacrosse fields from existing soccer fields, and make improvements to drainage and landscaping. In 2013 the park received CIP funds to install 120 new parking spaces, construct a new detention area, create a new multi-purpose field, install six MUSCO light poles for the two existing lacrosse fields, and install tree plantings and an irrigation system.

- In 2007 Sagemont Park received CIP funds to demolish the pool, pool building, pool decking, and pool fence and construct a new pool building, pool, shade canopy, concrete deck, and ornamental steel pool fence. A pool alarm, parking lot, landscape, hardscape, and drainage were installed and site lighting was improved. In late 2013 this park received Parks and Open Space funds for a new playground and surfacing.

SUPPLEMENTAL MAPS:

Park Sector 21 Council Districts

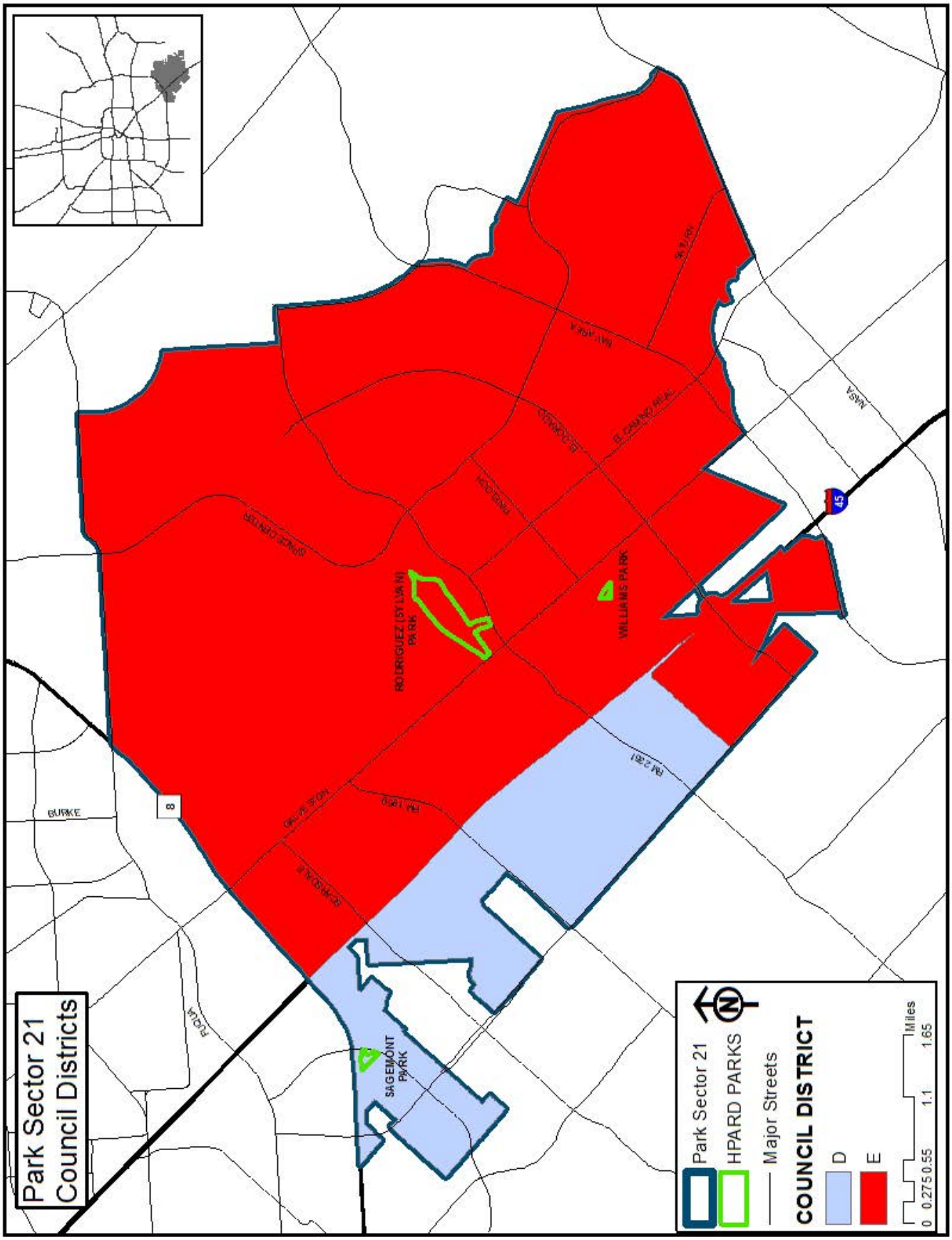


FIGURE 1: PARK SECTOR 21 COUNCIL DISTRICTS

Park Sector 21 Tax Increment Reinvestment Zone (TIRZs) and Management Districts

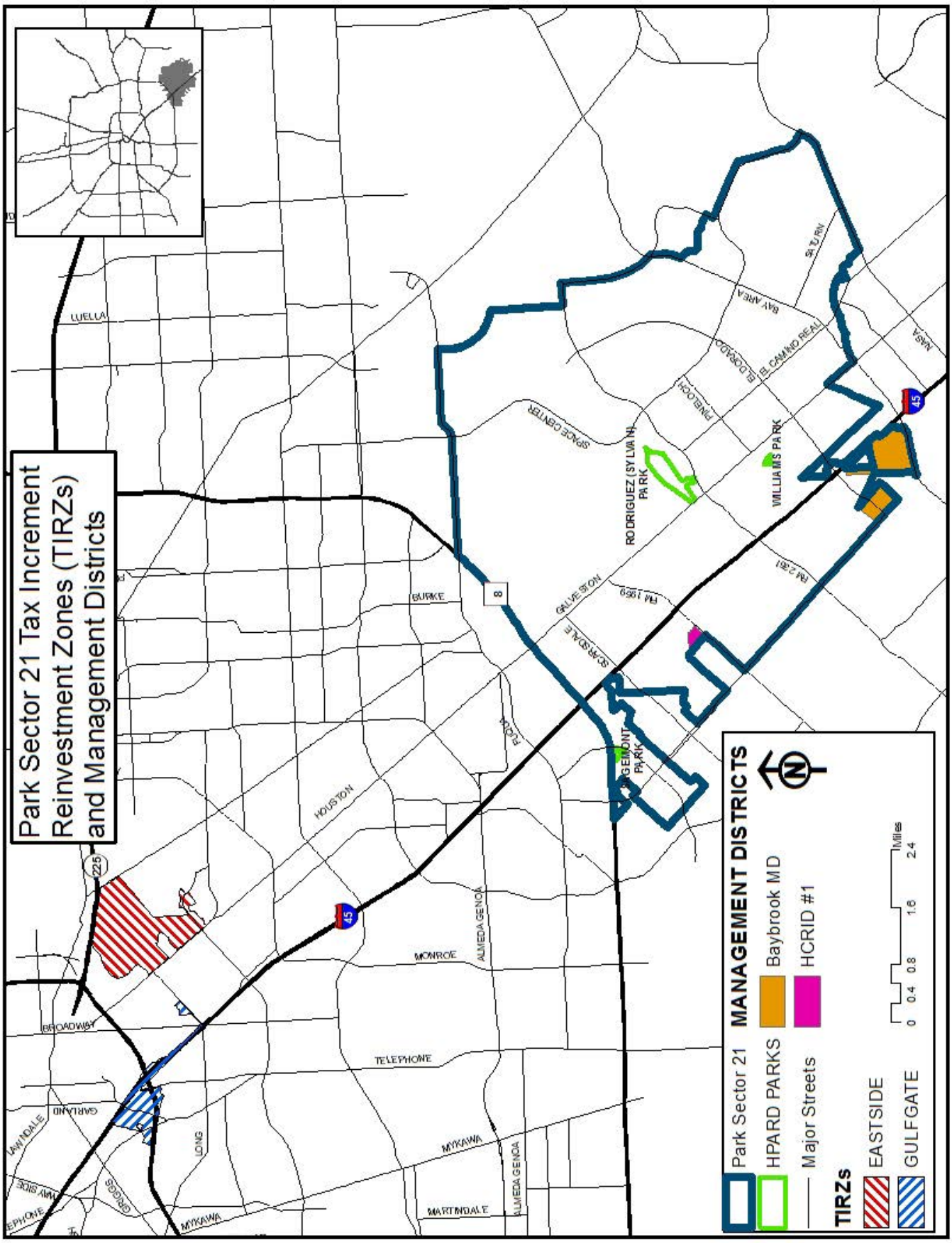


FIGURE 2: PARK SECTOR 21 MANAGEMENT DISTRICTS AND TIRZS

Park Sector 21 Super neighborhoods

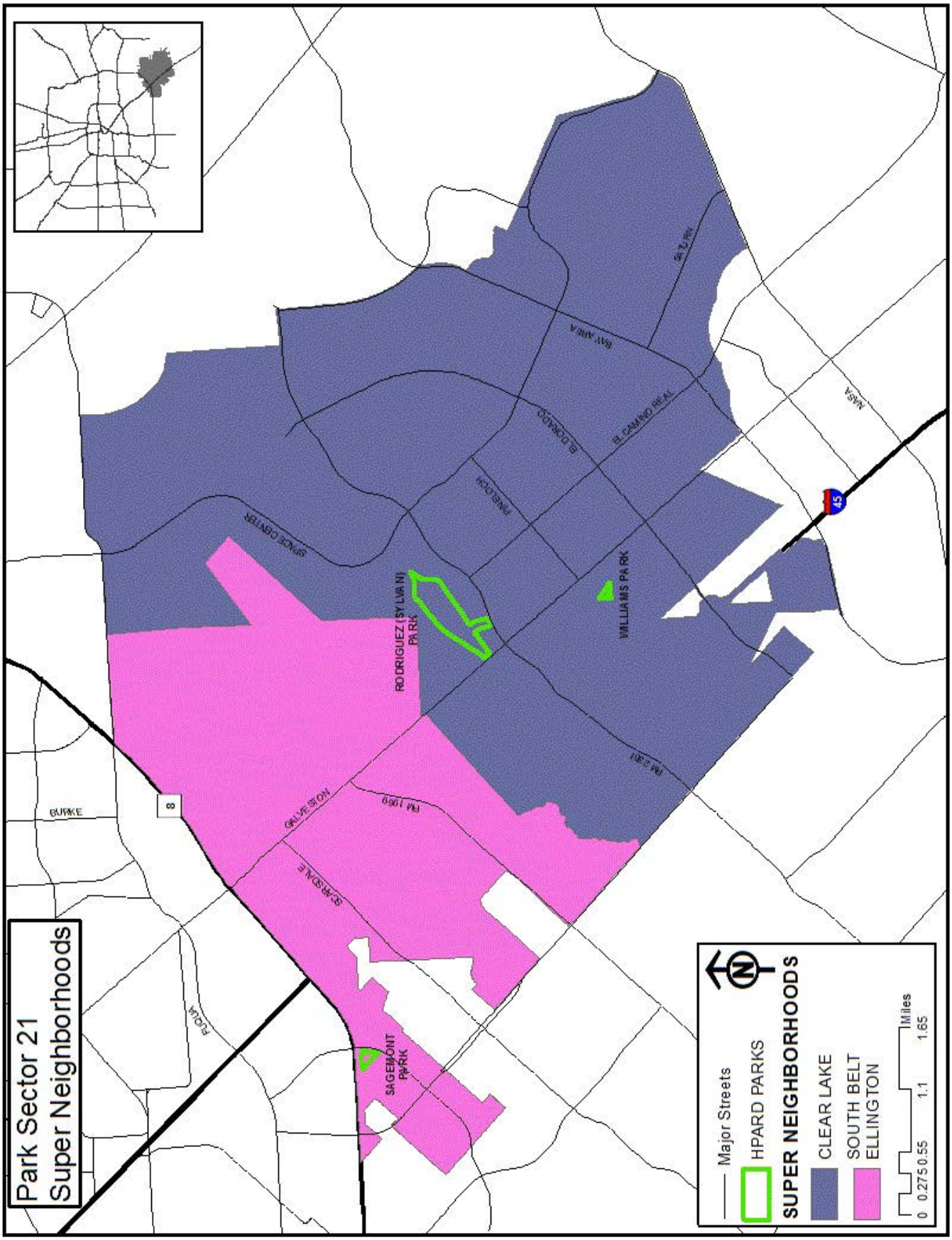


FIGURE 3: PARK SECTOR 21 SUPER NEIGHBORHOODS

Park Sector 21 Floodplain Areas

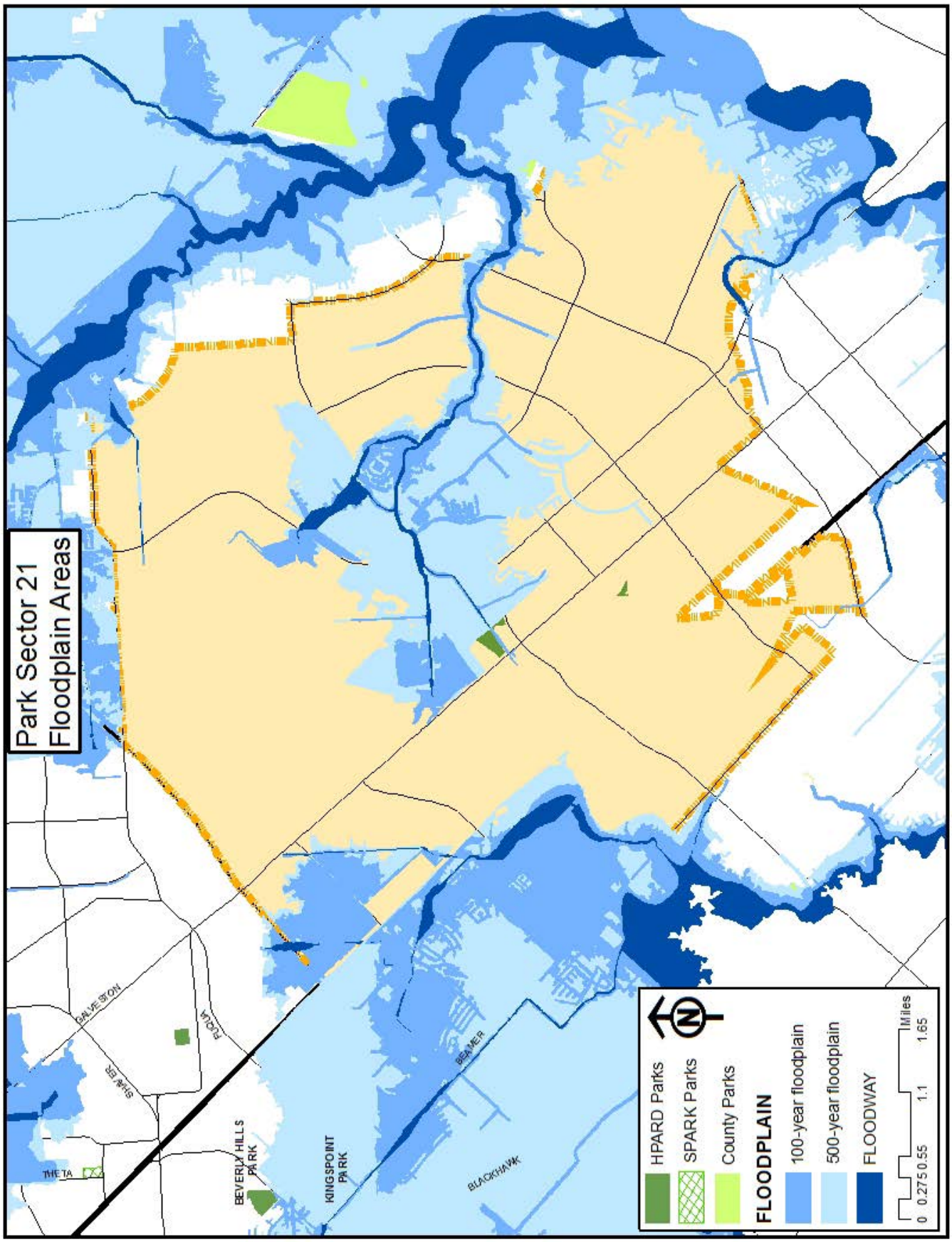


FIGURE 4: PARK SECTOR 21 FLOODPLAIN AREAS

APPENDICES

APPENDIX I - 2007 Parks Master Plan Executive Summary

EXECUTIVE SUMMARY

Houston is a green city with an incredible resource of parks and open space. A city known nationally and internationally for many accomplishments, Houston is recognized for its strong business environment with burgeoning cultural and entertainment attractions. As the 4th largest city in the nation, Houston has seen substantial growth that is projected to continue for the next 20 years. This growth includes a diverse citizenry demanding continued attention to quality of life initiatives. It is with this impetus that the City of Houston identified the need to examine its parks and recreation system and develop a new vision fitting of a world-class city. It is time for ***Discovering Houston through Parks and Recreation ... It's Worth It!***

PROJECT PURPOSE AND PROCESS

With this project, the City of Houston Parks and Recreation Department (HPARD) has undertaken an update of their 2001 Parks and Recreation Master Plan. This update looks at a broader vision of park and recreation goals and methods of accomplishing these goals.

HPARD performed a qualifications based selection process to retain a consultant team to perform the master plan update. The team of Houston based landscape architecture and planning firm Clark Condon Associates in conjunction with PROS Consulting, a specialized consulting firm with national experience, was retained. In addition, The Lentz Group, also a Houston based firm, was integrated to support the community participation process.

This update of the master plan is intended to serve as a tool and guide for HPARD to determine how to allocate 2006 and future bond proceeds. In addition, the master plan update is intended to support decision making for HPARD to guide future park and recreation operations and development aligned with the values and direction of an evolving city. Many of the goals are long-range and will require support from various public and non-profit entities to accomplish. All of the goals are directed at improving the quality of life for the citizens of Houston and the associated benefits that parks and recreation contribute to our community.

Various methods were used during this master plan update to obtain input from the general public, user groups and community leaders including elected officials from both the City and Harris County. Input from the general public included random telephone surveys within the City's nine council districts and twenty public forums.

The consultant team gathered inventory information from both the HPARD and Harris County's Parks Department for use in the update. Demographic analysis was conducted to understand the population densities and unique market needs throughout Houston.

Park classifications and facility standards were reviewed and updated to help in establishing a balanced system throughout the city by assuring that parks are developed with appropriate amenities serving unique needs and areas within the community. These standards help guide HPARD's development and renovation plans for the duration of the master plan scope. Equity maps apply the standards to population densities for each type of park and park amenity. These maps clearly show gaps within the system that need to be addressed.

The prioritization of needs is a culmination of needs expressed through input received from the community input process and the assessment of the park system's ability to meet these needs. A database was created which incorporates new parks and amenities as well as incorporating existing amenities that will need to be renovated or updated at some point in the future. This database assists in illustrating the ultimate plan – the "Big Moves" – which are depicted as individual capital projects, which then roll-up to a master list to address the overall needs and vision of the Houston community.

KEY FINDINGS AND RECOMMENDATIONS

The process described above and subsequent report identifies key findings and recommendations that have been summarized below. Each of these key findings and recommendations will require a concerted effort on behalf of HPARD, its partners, City leadership, and the community at large in order to ensure success.

The "Big Moves" gleaned from the analyses within the project are grouped in the following seven categories with a summary of each following:



CREATE **EQUITY AND BALANCE** IN THE SYSTEM

It is recommended that HPARD acquire property for additional park facilities based on the new standards contained within this report. Part of this process will require filling "gaps" in the level of service with new parks or partnering opportunities in order to make the blend of parks and programs more robust and representative of community needs. Additionally, HPARD should develop neighborhood focused park facilities and programs, create additional signature parks, and create a lifecycle replacement and repair program funded separately from bond funds to support ongoing maintenance requirements.

Land Acquisition for System Equity and Balance

Type of Park	Council District	Acreage Needed
Community Park	A	37
Neighborhood Park	A	66
Linear Park/Greenway	A	190
In-Park Trails	A	40
Connecting Trails	A	40
Community Park	B	70
Neighborhood Park	B	57
Linear Park/Greenway	B	193
In-Park Trails	B	40
Connecting Trails	B	40
Community Park	C	133
Neighborhood Park	C	77
Linear Park/Greenway	C	154
In-Park Trails	C	40
Connecting Trails	C	40
Community Park	D	0
Neighborhood Park	D	69
Linear Park/Greenway	D	0
In-Park Trails	D	38
Connecting Trails	D	40
Community Park	E-N	60
Neighborhood Park	E-N	42
Linear Park/Greenway	E-N	96
In-Park Trails	E-N	0
Connecting Trails	E-N	40
Community Park	E-S	60
Neighborhood Park	E-S	42
Linear Park/Greenway	E-S	96
In-Park Trails	E-S	40
Connecting Trails	E-S	40

",,,the backbone of a park system for Houston will naturally be its bayou or creek valleys, which readily lend themselves to 'parking' and cannot so advantageously be used for other purpose. These valleys intersect the city in such a way as to furnish opportunities for parks of unusual value within a comparatively short distance of most residential areas..."

Arthur Coleman Comey
Landscape Architect
Planning Report of 1913 for the Houston Park Commission

Land Acquisition for System Equity and Balance		
Type of Park	**Council District**	**Acreage Needed**
Community Park	F	102
Neighborhood Park	F	106
Linear Park/Greenway	F	192
In-Park Trails	F	40
Connecting Trails	F	40
Community Park	G	135
Neighborhood Park	G	80
Linear Park/Greenway	G	184
In-Park Trails	G	40
Connecting Trails	G	40
Community Park	H	78
Neighborhood Park	H	83
Linear Park/Greenway	H	184
In-Park Trails	H	40
Connecting Trails	H	40
Community Park	I	0
Neighborhood Park	I	79
Linear Park/Greenway	I	193
In-Park Trails	I	40
Connecting Trails	I	40

CREATE **CONNECTIONS**

Houston has the opportunity to create a World Class Urban Trail System by engaging the bayous and other corridors. HPARD needs to develop multi-use trails along all bayous partnering with Harris County Flood Control District (HCFCD). Partnerships with the HCFCD should be explored to the fullest extent possible to assist in the development of the trail system. This will support the necessary effort to create "green fingers" from neighborhoods to bayou corridors. A critical component of this will include the need to develop physical connections to parks and community facilities, develop better connections between parks and to promote continued development of Rails to Trails projects.

The focus of the Houston Parks Board is the continued acquisition and development of greenways along the following waterways: Sims, Brays, White Oak, Halls, Greens and Hunting Bayous. Other groups and organizations are focusing on north/south connectors to link the bayou greenways including the following: Columbia Tap east of downtown linking Buffalo (east end) and Brays Bayous, the Westchase District Trail connecting Terry Hershey Trail (Buffalo Bayou – west end) to Brays Bayou and the Cullen Park to Bush Park Connection on the far west side linking 17 miles of Cullen/Bear Creek Park trails to 27 miles of Terry Hershey/George Bush Park trails.

Both the greenway trail systems along the bayous and the north south connectors are vital for HPARD to support in creating the needed connections for recreation, connections to parks, and commuting options. In addition to hike and bike trails the City should also develop equestrian trails with associated amenities needed for access to these trails.

DEMONSTRATE **ENVIRONMENTAL LEADERSHIP**

To support Houston as a world-class city in the 21st Century, HPARD should work to support and promote an overall environmental ethic in the City through its operational and programming practices as well as its parks and open space development. HPARD should strive to create a natural habitat in all facilities classified as neighborhood parks or larger. This should be reflective of a larger effort to preserve or enhance existing natural habitats and to create environmental centers in parks to showcase "green practices", educate the public and serve as recycling centers.

IMPROVE **RECREATION PROGRAMMING** BY ADDRESSING NEEDS OF THE USERS

Recreation programming can be updated to address the needs of an extraordinarily dynamic and diverse group of users by transitioning from its current size and style of recreation center to multi-generational regional recreation/aquatic centers throughout the system, developing additional adaptive recreation sites for handicapped and physically challenged and providing transportation from neighborhood parks and schools to regional centers. Additionally it is recommended to work with Metro to develop a "Green Route" to park facilities, partner with non-profits and school systems for space to run programs and schedule the HPARD's specialized recreation staff at multiple sites based on user needs.

ADD **SIGNATURE PARKS** TO THE SYSTEM

HPARD can work to determine existing or new parks that can be improved and marketed as a destination park facility for the metropolitan area. Secondly, it is recommended that HPARD utilize the successful model of The Heritage Society, Hermann and Memorial Park Conservancies to increase funding for development and maintenance of these parks. The following parks are or are proposed to be brought to the level of "Signature Park" through non-profit organizations that will fund improvements and maintenance of the parks:

1. Hermann Park – existing signature status
2. Memorial Park – existing signature status
3. Sam Houston Park
4. Keith Wiess Park
5. Willow Water Hole Greenway
6. Lake Houston Park
7. Herman Brown Park
8. Cullen Park
9. Cullinan/Oyster Creek Park

IMPROVE **ACTIVE SPORTS FACILITIES**

Active sports facilities within the park system can be improved through innovative partnering on sport fields and game fields with Harris County. In addition, the City should install and limit field lights at sports and practice fields to Community Parks or larger. It is important that the system work to accommodate growing trends including sports such as lacrosse, cricket or skate parks.

ESTABLISH A **REGIONAL GREENSPACE AND RECREATION APPROACH**

HPARD should take the lead in the area's park and recreation community by opening lines of communication and cooperation with other agencies and providers of recreation for the citizens of Houston. Eliminating redundancy, focusing on common goals and priorities and determining the strengths and weakness of each of these providers will allow all to become focused on what is ultimately needed and who is best at providing those amenities and activities.

WHAT IS GREENSPACE?

"Greenspace is any vegetated land or water within or adjoining an urban area. It includes:

- Derelict, vacant and contaminated land which has the potential to be transformed
- 'Natural' greenspaces - natural and semi-natural habitats
- Green corridors - paths, disused railway lines, rivers and canals
- Amenity grassland, parks and gardens
- Outdoors sports facilities, playing fields and children's play areas
- Other functional greenspaces e.g. cemeteries and allotments
- Countryside immediately adjoining a town which people can access from their homes "

Source: www.greenspacescotland.org

GREENSPACE CLASSIFICATIONS AND STANDARDS

Each of the park types within the system were assigned one of the following classifications based on size or type of park. These classifications and typical developments are as follows:

POCKET PARK - LESS THAN 1 ACRE

Playground, picnic tables, gazebos or gardens

NEIGHBORHOOD PARK - 1 – 15 ACRES

To Pocket Park list add open space, natural habitat, walk trails, multi-use courts, practice sports fields and covered picnic shelters

COMMUNITY PARK - 16 – 150 ACRES

To Neighborhood Park list add lighted practice or game fields for sports, swimming pool or sprayground, recreation center, group picnic facilities, tennis courts, parking lot and screened portable toilets

REGIONAL PARK - OVER 150 ACRES

To Community Park list add lighted sports complexes, concession stand, Restrooms, golf course, tennis center, natatorium, multi-purpose and senior centers, nature areas and horticulture centers

LINEAR PARK/GREENWAY

Trails, trail amenities, screened portable toilets, natural habitat and parking if on thoroughfare or principal thoroughfare

PARK RESERVE AND NATURAL AREA - OVER 5 ACRES

Unpaved trails, wildlife observation stations, trail head, natural habitat, screened portable toilets and parking lot

PLAZAS AND SQUARES - LESS THAN 10 ACRES

Sculpture, monuments, public art, small stage, shade structure and extensive plantings

SPECIAL USE AREAS – CULTURAL OR HISTORIC PARK - LESS THAN 25 ACRES

Monuments, historic structures, interpretive graphics, picnic areas, visitor center and parking

SPECIAL USE AREAS – ESPLANADES, BOULEVARDS AND MEDIANS

Landscape enhancements

SPECIAL USE AREAS – SPORTS COMPLEX

Lighted game fields or courts, playground, restroom, concession stand, trails, picnic area and pavilions

SPECIAL USE AREAS – COMMUNITY CENTER

Stand alone center with parking

SPECIAL USE AREAS – GOLF COURSE

Stand alone golf course with parking

SIGNATURE PARKS

A status given to a park in any classification based on a partnering organization providing a higher level of design and maintenance of the facilities

Standards for each park classification take into consideration both HPARD facilities and those of other providers within the city limits. The standards developed are as follows:

Park Classification	**Inventory – all sources (In Acres)**	**HPARD Standards (Acres/1000 population)**	**2020 Needs (In Acres)**
Pocket	13	0.005/1000	Meets Needs
Neighborhood	1,945	1.0/1000	Need 702 Acres
Community	3,302	1.5/1000	Need 669 Acres
Regional	36,846	8.0/1000	Meets Needs
Linear Park/Greenway	1,158	1.0/1000	Need 1,490 Acres
Park Reserve/Natural Area	7,699	0.2/1000	Meets Needs

PARK SYSTEM NEEDS

The following list of needs has been determined for the Houston park system. Partnering with other agencies and organizations will be critical for accomplishing these needs. The three charts below show needs per Council District for Equity and Balance, Viable Recreation Programming and Creation of Connections:

Council District	Equity and Balance		
	Facility Development	Land Acquisition	Total
A	36,920,000	24,750,000	61,670,000
B	32,735,000	22,950,000	55,685,000
C	38,430,000	35,700,000	74,130,000
D	24,125,000	14,250,000	38,375,000
E	55,895,000	47,700,000	103,595,000
F	46,750,000	35,100,000	81,850,000
G	47,315,000	41,550,000	88,865,000
H	36,295,000	28,050,000	64,345,000
I	28,850,000	15,750,000	44,600,000
Total	**$ 347,315,000**	**$ 265,800,000**	**$ 613,115,000**

Council District	Viable Recreation Programming		
	Facility Development	Land Acquisition	Total
A	12,772,500	6,450,000	19,222,500
B	14,462,500	9,600,000	24,062,500
C	18,330,000	16,800,000	35,130,000
D	14,735,500	10,800,000	25,535,500
E	27,930,500	18,150,000	46,080,500
F	11,992,500	5,100,000	17,092,500
G	17,192,500	14,550,000	31,742,500
H	14,248,000	10,200,000	24,448,000
I	14,202,500	9,000,000	23,202,500
Total	**$ 145,866,500**	**$ 100,650,000**	**$ 246,516,500**

Council District	Create Connections		
	Facility Development	Land Acquisition	Total
A	23,140,000	40,500,000	63,640,000
B	23,218,000	40,950,000	64,168,000
C	22,204,000	35,100,000	57,304,000
D	17,745,000	11,700,000	29,445,000
E	32,292,000	46,800,000	79,092,000
F	23,192,000	40,800,000	63,992,000
G	22,984,000	39,600,000	62,584,000
H	22,984,000	39,600,000	62,584,000
I	23,218,000	40,950,000	64,168,000
Total	**$ 210,977,000**	**$ 336,000,000**	**$ 546,977,000**

TOP PARK PRIORITIES

According to the Citizen Survey the top priority citywide for spending additional funds within HPARD would be to revitalize existing facilities and parks. The following list of Top Priority Projects all fall within the category of renovations to existing facilities or addition of facilities at existing parks:

Project Title		Estimate		District
Moody Park Community Center Expansion/Park		3,500		H
Kendall Community Center (partnership with Library)		1,500		G/A
Townwood Phase II * (50% TPWD Grant)		1,000		D
Swimming Pool Upgrades: Sunnyside, Love, Independence Heights		3,000		D, H, H
Emancipation Park Redevelopment		2,000		I
Turner Park Phase II (50% TPWD Grant)		600		A
Squatty Lyons Phase II		1,500		B
Sylvan Rodriguez Phase III		1,000		E
Wright Bembry Park Renovation		700		H
Ballfield Lighting Renovations or Replacement: Shady Lane, Memorial, Northline, Brock		1,000		B, G, H, B
Pavilion Renovation: Trinity Gardens, Walter Jones, Haviland, Dow		2,000		B, E, C, I
Busby Park Redevelopment		700		B
Playground Replacements (Lakewood, Croyden Gardens, Cullen, River Oaks)		1,000		B, H, A, G
Keith Wiess Park		2,000		B
Roof Contract (participation in citywide contract)		500		Var
Southeast District Maintenance Facility		1,000		Var
Trail Replacement/Overlays in Various Parks		1,000		Var
Metropolitan Service Center		1,000		D
Hermann Square Master Plan		1,000		I
Memorial Greenhouse & Maintenance Upgrades		1,000		G
Sam Houston Park		1,000		I

*ESTIMATE=$1,000

DISCOVERING HOUSTON THROUGH PARKS AND RECREATION…IT'S WORTH IT!

The City of Houston has an opportunity to continue to expand the momentum gained over the last decade of investing in public infrastructure to supports its growing and ever-diversifying population. Houston is an internationally known city that, with continued focus on public features that improve the quality of life, can become a true "World Class City."

This Master Plan Update helps to organize and prioritize investment in the green infrastructure of Houston that makes Houston unique among major cities in the United Stated and even around the world.

It has been proven that investment in parks and recreation facilities and programs attracts and retains a strong population, promotes healthy lifestyles, and contributes significantly to a better environment. As one moves around Houston, it is apparent that this is a city that beckons to be explored. Now is the time to *Discover Houston through Parks and Recreation...It's Worth It!*

APPENDIX II - HPARD Online Survey

1. Please Enter Your Park Sector.

	Response Percent	Response Count
Sector 1	7.4%	137
Sector 2	1.1%	21
Sector 3	1.3%	24
Sector 4	2.3%	43
Sector 5	0.4%	8
Sector 6	1.1%	21
Sector 7	2.9%	54
Sector 8	12.1%	224
Sector 9	5.3%	98
Sector 10	3.2%	59
Sector 11	7.1%	131
Sector 12	10.9%	202
Sector 13	8.0%	147
Sector 14	**17.8%**	**330**
Sector 15	2.4%	45
Sector 16	1.1%	20
Sector 17	2.3%	42
Sector 18	10.0%	185
Sector 19	1.2%	23
Sector 20	0.6%	11
Sector 21	1.3%	24

	answered question	**1,849**
	skipped question	**15**

2. Please choose the level of priority which should be given consideration by HPARD for the following statements

	Low Priority			High Priority	Rating Average	Rating Count
Revitalize existing parks (including the improvement and/or replacement of existing equipment)	3.7% (67)	11.9% (216)	27.6% (501)	**56.7% (1,028)**	3.37	1,812
Develop new park facilities	11.1% (200)	22.8% (409)	28.2% (506)	**38.0% (682)**	2.93	1,797
Acquire new parkland	16.9% (300)	21.8% (387)	24.1% (429)	**37.2% (661)**	2.82	1,777
Preserve environmentally sensitive areas	6.7% (120)	14.2% (254)	28.2% (504)	**50.9% (912)**	3.23	1,790
Enhance park maintenance	3.9% (70)	17.7% (315)	37.0% (658)	**41.3% (734)**	3.16	1,777
Develop neighborhood connections to parks or trails	4.9% (89)	9.9% (178)	20.2% (365)	**65.0% (1,175)**	3.45	1,807
Utilize the school system for recreational facilities	20.1% (358)	**28.4% (506)**	25.9% (461)	25.6% (457)	2.57	1,782
				answered question		**1,846**
				skipped question		**18**

3. If you had $1 million to spend on improving the HPARD park system how would you allocate the funding? Please indicate your allocation by percent.

	Response Percent	Response Count
Revitalize existing parks (including the improvement and/or replacement of existing equipment)	**89.5%**	**1,559**
Develop new park facilities	79.6%	1,386
Acquire new parkland	78.1%	1,360
Enhance park maintenance	81.0%	1,411
Develop neighborhood connections to parks or trail	81.9%	1,427
Preserve environmentally friendly sensitive areas	75.5%	1,316
Development of fields	58.9%	1,026
Any other option	32.7%	569
	answered question	**1,742**
	skipped question	**122**

4. If Joe Turner, the Director of HPARD, asked you to rate what you see as the top 5 park and recreational facility needs in your neighborhood, with 1 being the most needed. Which 5 would you choose?

	Most Needed				Least Needed	Rating Average	Rating Count
Playground Areas	**33.8% (495)**	19.8% (290)	23.3% (341)	12.3% (180)	10.9% (160)	2.47	1,466
Picnic Areas and Pavilions	**31.1% (462)**	22.7% (338)	24.4% (363)	11.7% (174)	10.0% (149)	2.47	1,486
Hike, Bike, Walk Trails	**64.3% (1,064)**	16.1% (267)	9.4% (155)	4.8% (79)	5.4% (90)	1.71	1,655
Indoor Basketball Courts	12.6% (143)	7.7% (87)	14.9% (169)	18.7% (213)	**46.2% (525)**	3.78	1,137
Outdoor Basketball Courts	13.8% (163)	13.6% (160)	21.6% (254)	19.6% (231)	**31.4% (370)**	3.41	1,178
Open Space and Nature Areas	**44.1% (674)**	24.9% (381)	16.5% (253)	7.8% (119)	6.7% (102)	2.08	1,529
Sprayparks or Swimming Pool Facility	**30.9% (406)**	15.1% (198)	19.6% (257)	14.8% (194)	19.7% (259)	2.77	1,314
Baseball Fields	11.3% (127)	11.4% (128)	21.9% (247)	24.4% (275)	**31.1% (350)**	3.53	1,127
Football Fields	10.8% (120)	8.4% (93)	17.6% (196)	22.9% (255)	**40.3% (448)**	3.74	1,112
Soccer Fields	15.2% (182)	13.9% (166)	24.6% (294)	20.8% (249)	**25.5% (305)**	3.28	1,196
Softball Fields	10.7% (118)	10.9% (120)	22.1% (244)	23.4% (259)	**32.9% (364)**	3.57	1,105
Disc Golf or Frisbee Golf	10.2% (116)	12.6% (144)	19.4% (221)	18.8% (215)	**39.1% (446)**	3.64	1,142
Gymnasiums	13.5% (153)	8.6% (98)	16.9% (192)	20.0% (227)	**41.1% (467)**	3.67	1,137
Tennis Courts	15.2% (180)	13.6% (161)	24.9% (294)	19.8% (234)	**26.4% (312)**	3.29	1,181

Sand Volleyball	10.6% (120)	13.0% (146)	20.2% (228)	22.3% (251)	**33.9% (382)**	3.56	1,127
Skate Parks	10.8% (122)	11.2% (126)	20.2% (228)	20.4% (230)	**37.4% (421)**	3.62	1,127
Dog Parks	**31.7% (429)**	20.6% (278)	16.6% (224)	12.3% (166)	18.9% (255)	2.66	1,352
Amphitheater/Performing Arts Space	**25.1% (318)**	18.7% (237)	19.3% (244)	15.8% (200)	21.2% (268)	2.89	1,267
Upgrade Recreation Centers (meeting and recreation space)	**34.6% (469)**	17.5% (237)	21.1% (286)	12.2% (166)	14.7% (199)	2.55	1,357
					answered question		**1,827**
					skipped question		**37**

5. From the list below, please select the places you and your household members use most frequently for recreation. Please indicate the name of the park or parks you most frequently visit in the box below.

		Response Percent	**Response Count**
Public Park		**90.1%**	**1,629**
Public School/SPARK Park		12.3%	222
Homeowners Association Park or other Private Park		17.0%	308
Do not use recreation facilities		4.9%	88
Please list the name/names of the park or parks you most frequently visit:			1,431
		answered question	**1,807**
		skipped question	**57**

6. Are there areas in your neighborhood that you feel need a park?

	Response Percent	Response Count
Don't know	32.5%	577
No	31.4%	557
Yes - Please identify specifically where a park is needed.	**36.1%**	**640**
answered question		**1,774**
skipped question		**90**

7. Do you own a bicycle?

	Response Percent	Response Count
No	19.0%	348
Yes	**81.0%**	**1,483**
answered question		**1,831**
skipped question		**33**

8. How close do you live from a park you can access?

	Response Percent	Response Count
Don't know	2.5%	46
1/2 Mile	**58.6%**	**1,078**
1 Mile	18.5%	340
1 1/2 Mile	10.5%	193
More than 1 1/2 Mile. Please specify distance if possible.	9.9%	182
	answered question	**1,839**
	skipped question	**25**

9. How do you get to the park?

	Response Percent	Response Count
Walking	**61.8%**	**1,138**
Riding a bicycle	45.7%	841
Riding bus or light rail	2.9%	54
Driving	51.6%	950
Wheelchair	0.5%	10
	answered question	**1,841**
	skipped question	**23**

10. Are there any new connections needed to access existing parks or trails?

	Response Percent	Response Count
No	**39.0%**	**676**
Yes	32.1%	557
Other - Please specify the connection needed and specify location.	28.9%	501
answered question		**1,734**
skipped question		**130**

11. What barriers prevent or discourage you from going to the park?

	Response Percent	Response Count
No amenities that I can use	30.9%	413
Inadequate programming	11.5%	154
Health issues	3.5%	47
No easy access from my neighborhood	30.9%	414
Safety issues	**51.3%**	**686**
Do not have time	14.3%	191
I am not interested in going to park	1.9%	26
Please specify the name of your park and what amenities, programming, or safety issue/issues that present a barrier to your use of a park.		771
answered question		**1,338**
skipped question		**526**

12. How far would you walk or ride a bicycle to a park or trail? Choose one

	Response Percent	Response Count
Don't know	6.3%	115
1/2 Mile	26.4%	481
1 Mile	**28.4%**	**517**
1 1/2 Miles	19.0%	345
More than 1 1/2 miles - Please specify miles	19.8%	361
	answered question	**1,819**
	skipped question	**45**

13. Do you participate in a Houston Parks & Recreation Department (HPARD) program at a community center or park?

	Response Percent	Response Count
No	**81.5%**	**1,475**
Yes	18.5%	335
	answered question	**1,810**
	skipped question	**54**

14. What HPARD programs do you or your children participate in?

	Response Percent	Response Count
Teen Enrichment/Volunteer	5.1%	63
Summer Youth enrichment program	9.3%	115
After School Enrichment program	7.3%	91
Youth Nature Programs	4.1%	51
Fitness Programs	14.2%	177
Adult Softball Leagues	3.5%	43
Youth Softball Leagues	3.3%	41
Basketball Leagues	3.0%	37
Outdoor Environmental Education and Camping	2.5%	31
Youth Baseball Leagues	5.2%	65
Adult Baseball Leagues	0.6%	8
Youth Soccer Programs	3.9%	49
Adult Soccer Leagues	1.0%	13
Flag Football Leagues	2.2%	27
Youth Tennis Programs	4.9%	61
Adult Tennis Programs	2.6%	32
Bike Ride or Fun Run	16.4%	204
Archery Programs	1.9%	23
Swim Lessons	5.8%	72
Adaptive Sports and Recreation Programs (for people with disabilities)	1.1%	14
Skateboarding	2.2%	27

Arts and Craft Programs		7.4%	92
Fishing Activities		2.9%	36
Dance or Theater Programs		5.5%	68
Disc or Frisbee Golf		2.8%	35
Nutrition programs		4.7%	59
Senior Sports Leagues		1.4%	17
Senior Recreation and Wellness Programs		8.3%	103
None/Not Interested		**44.2%**	**549**
Other - Please specify program(s) you or your children participate in		20.0%	248
		answered question	**1,243**
		skipped question	**621**

15. Which of the following recreation program opportunities would you and members of your household be MOST interested in participating in that are not available in your area? (Please check only the programs you or members of your household are most interested in participating)

	Response Percent	Response Count
Teen Enrichment/Volunteer	7.5%	121
Summer Youth enrichment program	9.5%	154
After School Enrichment program	7.4%	120
Youth nature programs	14.9%	241
Fitness programs	33.2%	539
Adult Softball leagues	9.6%	156
Youth Softball leagues	3.0%	49
Basketball leagues	6.4%	104
Outdoor environmental education & camping	17.5%	284
Youth Baseball leagues	4.9%	80
Adult Baseball leagues	3.9%	63
Youth Soccer programs	8.7%	141
Adult Soccer leagues	7.6%	123
Flag Football leagues	7.3%	119
Youth Tennis programs	9.1%	147
Adult Tennis programs	15.2%	246
Bike ride or fun run	**40.7%**	**660**
Archery programs	15.0%	244
Swim lessons	19.9%	322
Adaptive Sports and Recreation programs (for people with	3.1%	50

disabilities)			
Skateboarding		5.7%	93
Arts and craft programs		20.7%	335
Fishing activities		16.3%	264
Dance or theater programs		19.9%	322
Disc or Frisbee golf		11.7%	189
Nutrition programs		14.1%	229
Senior Sports Leagues		6.2%	100
Senior recreation and wellness programs		14.0%	227
Any others		2.9%	47
None/not interested		12.0%	194
Other (please specify)		12.3%	199
		answered question	**1,622**
		skipped question	**242**

16. Within the past year, how often have you and/or a member(s) of your household visited a park in the Houston area? (Choose one)

	Response Percent	Response Count
Weekly	**57.2%**	**1,044**
Monthly	24.3%	444
At least once in three (3) months	9.6%	175
At least once in six (6) months	5.3%	96
Once a year or less	2.6%	47
Don't know	1.0%	19
	answered question	**1,825**
	skipped question	**39**

17. Within the past 3 years, who in your household has participated in a Houston Recreation and Wellness program such as enrichment or nature program, sports or fitness program, after school or summer program, etc.? Please check all that apply.

	Response Percent	Response Count
Senior (55+ years)	10.6%	188
Adult (20 - 54 years)	18.4%	327
Youth (5 - 19 years)	11.0%	196
Child (0 - 4 years)	3.5%	63
No one	**68.4%**	**1,214**
	answered question	**1,775**
	skipped question	**89**

18. Overall, how would you rate the quality of recreation programs offered by the Houston Parks and Recreation Department?

	Response Percent	Response Count
Excellent	4.6%	83
Good	18.5%	334
Needs minor improvement	16.8%	304
Needs major improvement	11.9%	214
Don't know/not familiar with	**48.2%**	**870**
	answered question	**1,805**
	skipped question	**59**

19. Do you have any suggestions for improvement of the recreation programs in which you or others in your household have participated?

	Response Percent	Response Count
No	**70.3%**	**1,132**
Yes - Please specify suggestion	29.7%	479
	answered question	**1,611**
	skipped question	**253**

20. In order to develop and maintain the park and recreation improvements you have suggested, how strongly would you support EACH of the following funding options? 1 = Don't Support, 4= Strongly Support,

	Don't Support			Strong Support	Rating Average	Rating Count
An increase in user fees (Paying a fee to use a facility or a program)	**39.2% (681)**	28.1% (489)	19.5% (339)	13.2% (230)	2.07	1,739
Corporate advertising or naming rights in parks (corporations that pay a fee to have their name advertised in a park or a park named after their company)	13.9% (247)	14.9% (265)	24.4% (434)	**46.7% (830)**	3.04	1,776
Voter approved bond programs (bonds provide the funds to build or renovate parks)	10.0% (179)	14.6% (260)	32.7% (582)	**42.7% (761)**	3.08	1,782
Increase impact fees for developers (developers would pay an increased fee on each lot developed that would go to parks)	6.8% (120)	12.1% (214)	23.5% (416)	**57.7% (1,023)**	3.32	1,773
				answered question		**1,807**
				skipped question		**57**

21. Do you recycle?

		Response Percent	Response Count
No		9.5%	173
Yes		**90.5%**	**1,653**
		answered question	**1,826**
		skipped question	**38**

22. How many persons, including yourself, reside within your household?

	Response Percent	Response Count
1	16.5%	303
2	**40.5%**	**742**
3	18.8%	344
4	15.7%	288
5	5.4%	99
6	1.7%	32
7+	1.3%	23
	answered question	**1,831**
	skipped question	**33**

23. What is your average annual household income?

	Response Percent	Response Count
Under $25,000	4.7%	81
$25,000 - $49,999	14.1%	245
$50,000 - $74,999	18.7%	325
$75,000 and up	**62.5%**	**1,086**
	answered question	**1,737**
	skipped question	**127**

24. Do you have children in your household under 19 years of age? Please check all boxes that apply for ages of children in your household.

	Response Percent	Response Count
0-4 years	15.4%	280
5-9 years	14.5%	262
10-14 years	13.0%	235
15-19 years	10.1%	184
No children under 19 years of age in household	**61.9%**	**1,123**
	answered question	**1,813**
	skipped question	**51**

25. Do you own a dog?

	Response Percent	Response Count
No	49.8%	907
Yes	**50.2%**	**915**
	answered question	**1,822**
	skipped question	**42**

26. What is your age?

		Response Percent	Response Count
Under 19		0.1%	2
18-24		2.8%	50
25-34		**25.7%**	**467**
35-44		21.9%	398
45-54		18.8%	342
55-64		17.4%	317
65-74		9.0%	164
75+		1.7%	31
Prefer not to answer		2.5%	46
		answered question	**1,817**
		skipped question	**47**

27. What is your ethnicity?

	Response Percent	Response Count
Non-Hispanic White	**65.9%**	**1,183**
Hispanic	14.0%	252
Non-Hispanic Black	11.1%	200
American Indian	0.5%	9
Asian	3.1%	55
Hawaiian or Pacific Islander	0.1%	1
Other	5.3%	95
answered question		**1,795**
skipped question		**69**

28. Are you interested in gardening?

	Response Percent	Response Count
No	20.7%	377
Yes	**79.3%**	**1,444**
answered question		**1,821**
skipped question		**43**

29. What is your gender?

	Response Percent	Response Count
Male	44.1%	794
Female	**55.9%**	**1,008**
	answered question	**1,802**
	skipped question	**62**

30. In a typical week, how many days do you exercise?

	Response Percent	Response Count
I don't regularly exercise	9.5%	174
Once a week	12.6%	231
2 to 4 days a week	**53.3%**	**977**
5 to 7 days a week	24.6%	451
	answered question	**1,833**
	skipped question	**31**

31. Please tell us where you live and let us know your email address so we can update you on community meetings.

		Response Percent	Response Count
Name		90.2%	1,263
Zip Code		**99.0%**	**1,386**
Email address		87.1%	1,219
		answered question	**1,400**
		skipped question	**464**

CENTER FOR CIVIC LEADERSHIP
RICE UNIVERSITY

To: Renissa Garza Montalvo
From: Bob Stein and Libby Vann, Rice University Center for Civic Leadership
Re: Analysis of 2014 Houston Parks and Recreation Master Plan Survey
Date: December 30, 2014

At the request of the Houston Parks and Recreation Department (HPARD) the Center for Civic Leadership at Rice University has undertaken to analyze responses to HPARD's *2014 Master Plan Survey*. Our analysis focuses on those factors that shape the use of HPARD's facilities and programs, user evaluations of HPARD facilities and programs and preferences for future parks and recreation programs. These factors include social and demographic information about the respondents (e.g., race, ethnicity, age, income), accessibility to parks, and household composition (e.g., children and size of household).

Survey Sample

The *2014 Houston Parks and Recreation Master Plan Survey* was conducted during the spring and summer of 2014. Park users and Houston residents were invited to HPARD's website to complete an online survey.[1] A total of 1,849 persons participated in the survey.

The sample does not closely resemble the residential population of Houston. Non-Hispanic Whites (64%), households without children (60%) and, households with annual incomes in excess of $75,000 (62.5%) are significantly overrepresented in the population of persons who completed the survey.

The geographic distribution of respondents is skewed towards areas within the 610 loop and to the immediate West, Southwest and Northwest of 610, including: Sector 14, West Side Inside Loop; 17.8%; Sector 8, Southwest Side (12.1%); Sector 12, North West Side Inside Loop

[1] Potential survey respondents were solicited through Annual City of Houston Capital Improvement Plan public meetings, emails, HPARD website, Citizens Net, a public information campaign, outreach at various community meetings, Sunday Streets, and posted messages and signage at HPARD parks and facilities. The sample for the *HPARD Master Plan Survey* is a convenience survey and not a random sampling of Houston residents.

(10.9%); Sector 18, West Side Outside Beltway South of IH 10 (10%); Sector 13, South East Inside Loop (8%); Sector 1 North West Side (7.4%); and Sector 11, East Side Inside Loop (7.1%). Respondents from these 7 sectors comprised 73.3% of all responses to the survey. Of the other 14 sectors in HPARD's system, 12 had less than a 3% response rate.

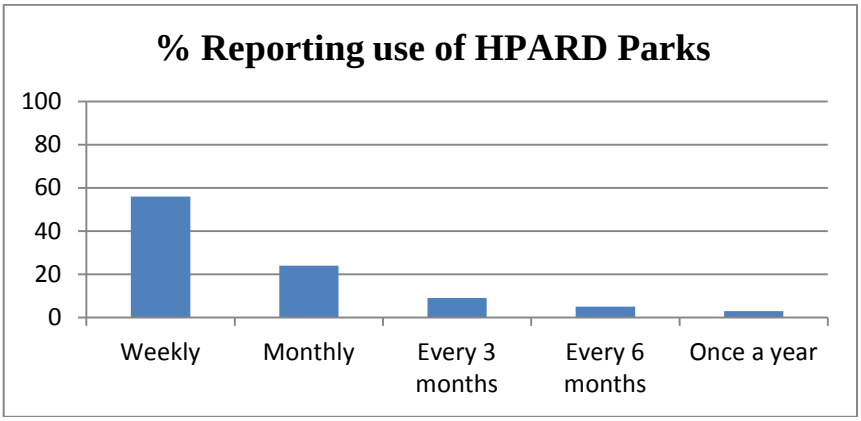
The survey sample most closely resembles the fastest growing residential areas of Houston and communities populated by middle and upper-middle class non-Hispanic Whites.

Survey highlights

- 38% of survey respondents believe their neighborhood needs a park.
- 57% of survey respondents report using a HPARD park at least once a week.
- 18% report participating in a HPARD program at a community center or park.
- 51% of survey respondents cite concerns about safety for not using HPARD parks more frequently.
- Two-thirds of survey respondents identified connecting their neighborhood to hike, bike and walk trails and revitalizing existing parks as their highest budgetary priority for HPARD.
- 48% of survey respondents could not rate the quality of recreation programs offered by HPARD.
    - Among those respondents who offered a rating of HPARD programs, 55% believe HPARD programs need either minor or major improvements.

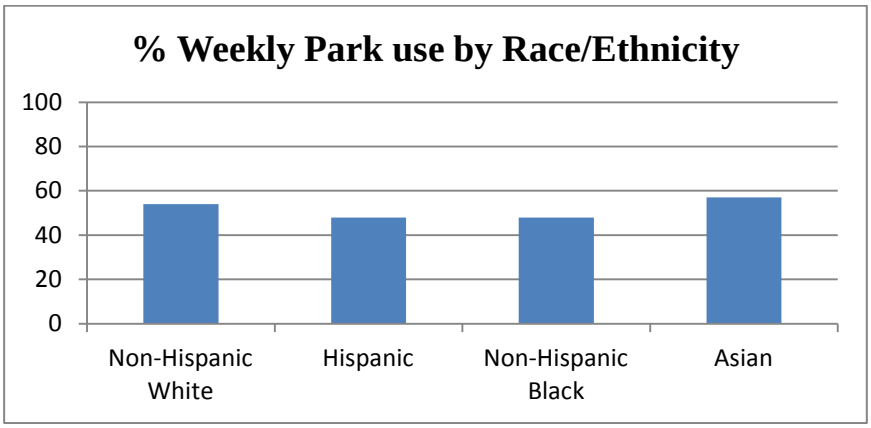
Use of HPARD parks and programs

Use of HPARD parks and programs is widespread among survey respondents, with 57% reporting that they or a member of their family visited a park at least once a week in 2014.

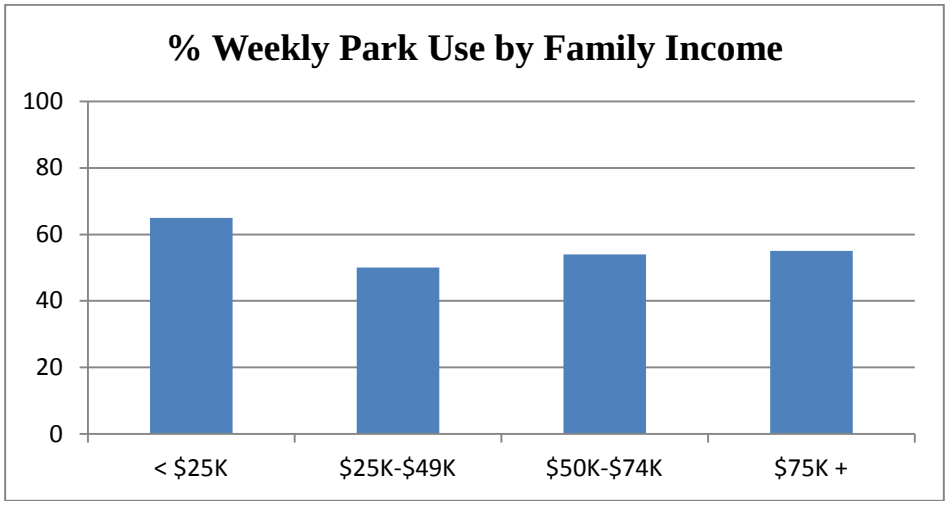


The most frequently mentioned uses of Houston parks and community centers are participation in adult and youth athletic leagues (i.e., tennis, softball, baseball, basketball, soccer, football). A third (33%) of all respondents reported participation in one or more park-sponsored athletic programs and leagues. Participation in individual fitness programs and use of bike and hike trails account for 30% of reported household usage of park facilities.

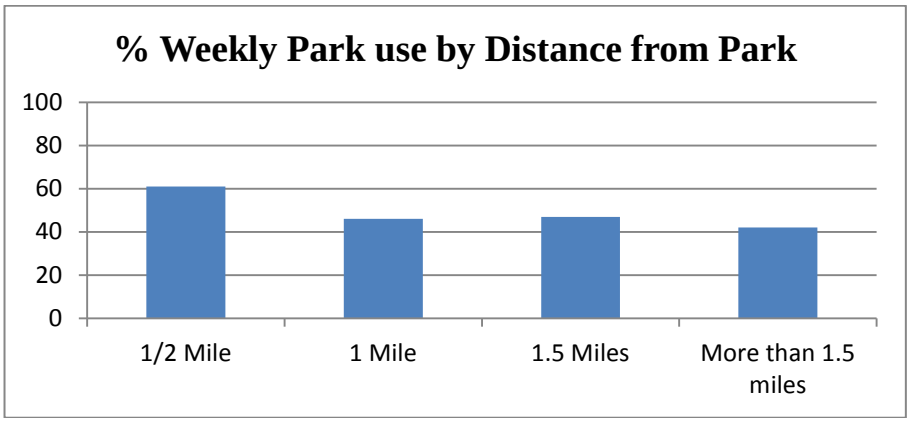
Among survey respondents, reported household use of HPARD parks and programs does not vary significantly by race and ethnicity. Comparable proportions of Non-Hispanic Whites (57%), Hispanics (59%), Non-Hispanic Blacks (54%) and Asians (55%) report visiting a park in Houston at least once a week in 2014.



Households with children (i.e., < 19 years of age) report a higher weekly usage of HPARD parks (54%) than households without children (46%). Usage of HPARD parks declines slightly as income increases among survey respondents. Nearly two-thirds (65%) of persons with household incomes below $25,000 reported weekly use of HPARD parks compared to only 58% of persons with household incomes over $75,000.



Access to HPARD parks and facilities is a strong correlate of park usage. Persons living within a half mile of a HPARD park report a significantly higher rate of weekly visits to Houston parks (64%) than persons living 1 mile (50%), 1.5 miles (47%) and more than 1.5 miles from a Houston park (45%).



Mode of access is another correlate of park usage. Persons who can walk (65%) or bike (65%) to a park report greater weekly use of HPARD parks than persons who report taking a bus (54%) or car (51%) to a Houston area park.

Concern about safety at HPARD parks is not a significant deterrent to park use. Among respondents who cited safety issues[2] as an obstacle to using HPARD parks, 56% reported weekly use of a park in Houston, the same proportion of park use reported by all respondents.

Evaluation and preferences for HPARD facilities and programs

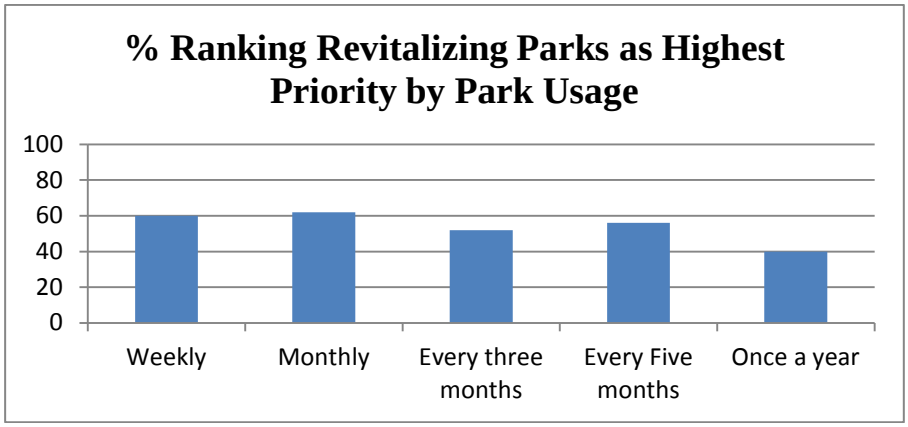
Survey respondents were asked several questions about the quality of HPARD programs, the need for repairs and maintenance of current facilities and how the department should target its budgetary priorities. Across these different questions, developing neighborhood connections to parks and trails was consistently cited as a most important problem facing the HPARD and respondents' highest budgetary priority for the department. Revitalizing existing parks, including improving and replacing existing facilities and equipment was the second most frequently identified need and priority.[3] Acquiring land for new parks and developing new parks was a high priority for only a third of the survey respondents.

Two-thirds of survey respondents ranked hike, bike and walk trails as their highest priority (4 on a scale of 1 to 4) for HPARD. Not surprisingly there is a strong relationship between respondents' ranking of hike and bike trails and their preferences to develop neighborhood connections to parks and trails. More than three-quarters (77%) of survey respondents who believe bike, hike and walk trails should be a high priority for HPARD also believe the department should make neighborhood connectivity to these trails the department's highest budget priority.

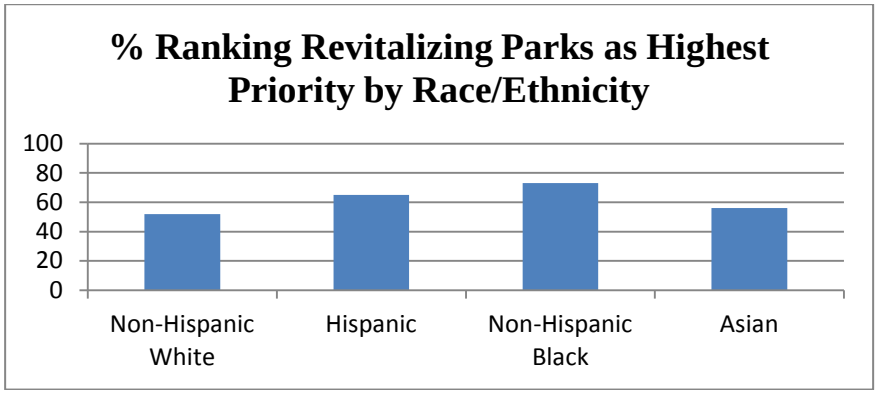
[2] It is not obvious what survey respondents considered a 'safety issue' related to HPARDparks. Personal safety concerns may arise from other park users, unsafe equipment and physical conditions of the park. The survey did not ask respondents to differentiate among these safety issues.

[3] Preserving environmentally sensitive areas ranked second among demand for parks initiatives but was ranked five among budget priorities among all survey respondents.

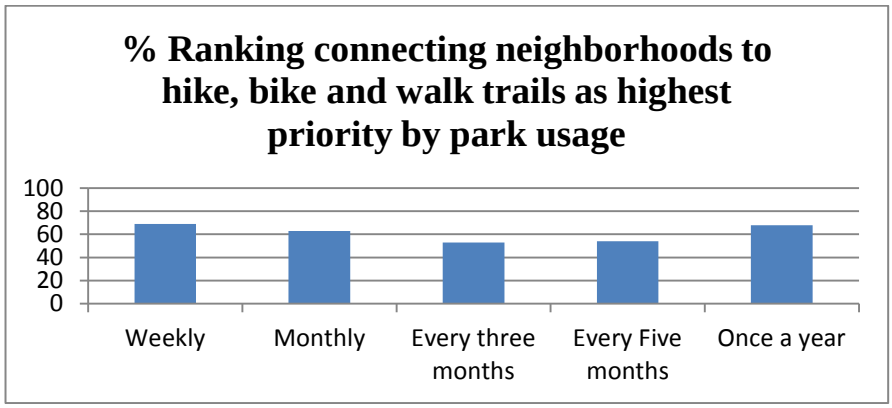
Support for revitalizing HPARD parks varies slightly across users of the Houston city parks. Among weekly users of Houston parks 60% rated park revitalization as their highest priority for the HPARD compared to between 40% and 55% of less frequent users.



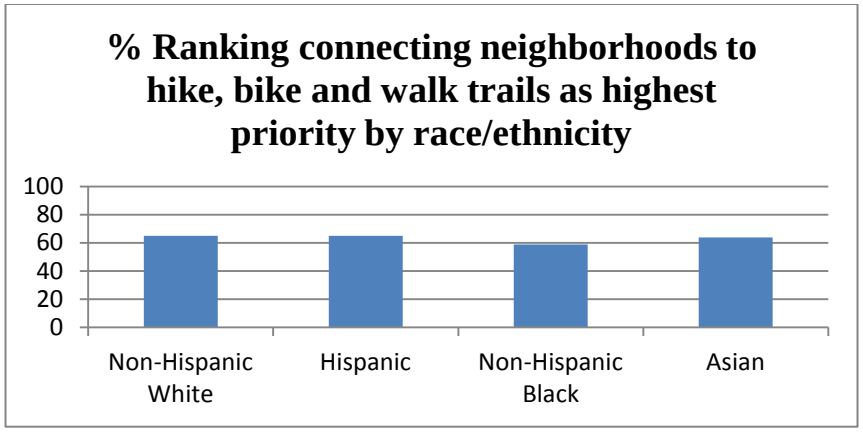
Enhanced and revitalized parks is a greater priority for non-Hispanic Blacks (73%), Hispanics (65%) and Asians (56%) than non-Hispanic Whites (52%).



Demand for connecting neighborhoods to bike, hike and walk trails is high among all users of HPARD facilities including infrequent users. Among weekly users of HPARD parks 69% rank connectivity as their highest priority. Even among those who reported visiting a Houston park once a year 68% ranked community connectivity as their highest priority.



Connecting neighborhoods to bike, hike and walk trails is a high priority for all racial and ethnic groups who participated in the survey. At or above 60% of all respondents by race and ethnicity ranked connectivity as their highest priority for HPARD.



Conclusions

Any conclusions and recommendations about future HPARD planning based on the 2014 survey must be tempered by the limited nature of the survey sample. As discussed above, the survey sample is not representative of the residential population of Houston. Moreover, it is not certain that the survey sample represents the population of current users of HPARD parks and programs. Non-Hispanic Whites are over represented in the sample as are middle and upper middle class residents of Houston. With this limitation in mind, there are several interesting if not important policy directives that can be gleaned from this survey. First, there is a strong interest in and support for HPARD's hike, bike and walk trails. This policy preference is matched with a strong preference for HPARD to spend a significant portion of its budget building connectivity between neighborhoods and HPARD's network of hike, bike and walk trails. This preference is relatively uniform across the sample of survey respondents. All respondents by racial and ethnic groups supported spending on connecting their respective neighborhoods with hike, bike and walk trails. The same is true for frequent and infrequent users of the HPARD facilities and programs. Additionally, since residents who can walk or bike to a park reported greater weekly use of HPARD parks than those who travel by bus or car, further development of HPARD's bike and network can also serve to improve park accessibility.

APPENDIX IV - City-Wide Plans and Initiatives

March 25, 2015

CITY-WIDE PLANS & INITIATIVES

The following list of plans and studies is not an exhaustive list.

H-GAC 2040 Regional Transportation Plan (RTP) (2015)
The 2040 Regional Transportation Plan (RTP) identifies long term transportation priorities that can be designed, constructed, and maintained within reasonably available local, state and federal transportation funding. It also provides a framework for short-term investments. H-GAC updates the plan every four years. The recommended investments in the 2040 RTP total approximately $75 billion and focuses first on maintenance, replacement and efficient operation of existing transportation infrastructure and services. The plan also identifies priorities for the strategic expansion of highway, transit, pedestrian and bicycle infrastructure as well as additional safety and operational improvements.

H-GAC 2040 Regional Pedestrian & Bicycle Plan (2014)
The Regional Pedestrian and Bicycle Plan is a long-range planning document that describes our region's vision for enhancing pedestrian and bicycle infrastructure within the eight-county Transportation Management Area (TMA).

METRO Bike and Ride Implementation Plan (2014)
The Regional Pedestrian and Bicycle Plan is a long-range planning document that describes our region's vision for enhancing pedestrian and bicycle infrastructure within the eight-county Transportation Management Area (TMA).

Complete Streets and Transportation Plan Executive Order
This Plan is meant to provide safe, accessible and convenient use by motorists, public transit riders, pedestrians, people of all abilities and bicyclists. The new policy, detailed in the E.O., will be achieved over time as improvements to existing roadways and redevelopment occur. The ultimate goal, where appropriate, is walkable and bike-friendly neighborhoods with amenities such as trees and landscaping, public art and street furniture.

Our Great Region 2040 (2013), H-GAC
Our Great Region 2040 is a plan that presents big ideas and proposes strategies to move our region toward achieving the vision of being one of the world's greatest places to live, work, and succeed by the year 2040.

Houston Urban Corridor Planning (2010), City of Houston PD
The Corridor Ordinance regulates development along transit corridor streets and intersecting streets (Type A) by providing standards and guidelines for the design of the pedestrian realm. Require sidewalks with a clear pedestrian space minimum 6 feet wide and 7-½ feet high along all transit corridor streets and Type A streets.

Houston Plan (On-going), City of Houston PD
Plan Houston will define successful outcomes for the City and develop strategies to enhance neighborhoods and support growth and development. This effort will improve coordination between government agencies and ensure efforts of the City and its partners are as effective as possible.

Bayou Greenways Initiative (BG2020) (2012)
BG2020 is a project to unite the 10 bayous by linking the existing stretches of linear parks, trails, and larger traditional parks with new greenways. The BG2020 is supported by the City, County, a large and growing group of citizens, neighborhoods, environmental, civic improvement, and business groups who are working together to make continuous Bayou Greenways for our County and greater Houston area a reality.

PARK SECTOR 1

Plans & Planning Studies

Independence Heights-Northline Livable Center Study (2012)

This study recommends developing a plan that prioritizes Neighborhood parks and emphasizes on improving existing parks. Independence Heights, McCullough and Kerr Parks are considered to be the parks serving the area for this Livable Center Study. In addition, the need for additional open space is identified and is recommended that the vacant and tax-delinquent lots be targeted for acquisition and public land located in the floodplain be used for public space. North Main and Crosstimbers are identified by the community as an anchor site to have a Community Center, public space and other services.

It is recommend to tie into existing trail system (White Oak Bayou) that links to other park facilities and to create different trail (multi-use gravel or concrete, shared road) opportunities to connect residents in the area to park space and destinations. It is mentioned that the development of bike lanes on N . Main Street would connect existing bike routes on Crosstimbers and Cavalcade Streets and provide access to Montie Beach Park, White Oak Bayou Park, Heights Boulevard Park and Buffalo Bayou for residents in the area.
www.hgac.com/community/livablecenters/planningstudies/current/documents/Independence_Heights_Projects.pdf

PARK SECTOR 2

Plans & Planning Studies

Antoine Corridor Livable Centers Study (2012)

The boundary of this study is from TC Jester on the east to Hollister on the west and from Hwy 290 on the south to Hwy 249 on the north, along Antoine. The focus of the Livable Center Study is to explore the creation of a Town Center along the Antoine Corridor from the former Inwood Forest Golf Course to Aron Ledet Park that would attract business into the area as well as increase the area's livability for its residents. The Livable Centers Study will help to define practical ways to improve the area's accessibility, increase venues for community activities and generally improve the area through projects like the creation of pedestrian and biking thoroughfares, providing bike parking at bus stops, adding beautification elements, revitalizing vacant shopping centers, improving existing parks and adapting the vacant golf course into a community center and wellness park.
http://www.nearnorthwestdistrict.com/Programs/LivableCenters.shtml

Harris County-Airline Improvement District Livable Center Study (2009)

The boundary of this study is just north and outside the city limits, but its recommendations may be relevant and affect the area. The study recommends the use of Halls Bayou channel and its tributaries as the backbone of a District pedestrian and bike connectivity network providing alternative routes for people to move comfortably and conveniently around the District, as well as add to the overall Halls Bayou hike and bike trail system.

- North-South potential tributary trail from Halls Bayou south along P118-27-00 (Ditch No. 2, D.D. #10).
- North east to south-west connection between Hall Bayou and Melrose Park along a utility corridor.

Under construction by this District is Raymac Park; a 10-acre park which was previously the home of Carroll Academy and had to be relocated due to flooding issues.
http://videos.h-gac.com/CE/livablecenters/Airline-District-Livable-Centers-Study.pdf

Airline Improvement District Pedestrian and Bicyclist Special District Study (2009)

http://videos.h-gac.com/CE/pedbike/airline_improvement_district_study.pdf

GreensPoint TIRZ (2011)

In partnership with the Greens Bayou Corridor Coalition, the District opened Ida Gaye Gardens, a park that provides older adults a place to socialize, exercise and relax.
www.greenspoint.org/Our%20History.shtml

PARK SECTOR 8
Plans & Planning Studies

Brays Oak Management District Parks Master Plan (2013)

The Master Parks Plan is a clearly defined guide for the future of park facilities, trail development and land acquisition for parkland. This plan includes an inventory of existing park facilities and trails, and lists suggestions for improvements of these. The plan makes recommendations of specific improvements for the following parks: Braeburn Glen, Chimney Rock, Glenshire, Hager Lee, Haviland, Marian and Westbury.

Land acquisition parcels identified by this plan for future park space are as follows: 1)Ruffino Hills site (150 acres) which would allow for potential trail connections along Keegans Bayou and West Bellfort and would directly link the neighborhoods of Glenshire and Braeburn Valley West. 2) A 3.81 acre parcel along West Airport This space would provide recreational opportunities to the South Meadow and Fonmeadow neighborhoods and could be easily accessed from the proposed trail extension along the Fondren Diversion Channel.
Westbury Community Garden: A 7 acre site currently owned by the Houston Housing Authority (HHA).
http://braysoaksmd.org/wordpress/wp-content/uploads/2013/05/Parks-Master-Plan.pdf

5 Corners Improvement Environmental Master Plan Progress Report (2013)

This report highlights the following goals for a conservation plan and preservation of existing open spaces, enhancement of existing parks and commissioning the design of Linear Parks and SPARK Parks in partnership with local schools and CenterPoint.

In addition, the following Open Space Projects are proposed: Sims Bayou Hike & Bike Trails System , the conversion of the Harris County Detention Basin conversion into District Park, Townwood park improvements, linear park along Centerpoint easement along Orem Dr. (Hillcroft Ave. to Hiram Clarke Rd.), along Orem Dr. (Hiram Clarke Rd. to Almeda Rd.), and along Hiram Clarke Rd. (South Main to Beltway 8).
http://5cornersdistrict.org/wp-content/uploads/2013/09/Environmental-Master-Plan-Update-9-9-13.pdf

PARK SECTOR 9
Plans & Planning Studies

Greater Sharpstown Management District

The purposes of the Greater Sharpstown District are to enhance the physical, social and economic well being of the community. In February 2007, the board adopted a four-point Service and Action Plan to address mobility and transportation planning, environmental and urban design, public safety, and business and economic development. The Environmental and urban design portion of the plan states that the District is interested in creating an “interconnected system of parks, trails, and open spaces serving both commercial and residential populations.”
www.sharpstowndistrict.com

The Bellaire Boulevard Reconstruction Project

is a joint project between the Southwest Houston Redevelopment Authority (SHRA) and the City of Houston (City of Houston). The SHRA was responsible for the design of the project. The City of Houston will be responsible for the construction of the project. The project will consist of several types of improvements along the Bellaire Boulevard corridor from Rogerdale Road to Osage Road. Hardscape and Landscape Improvements include: benches, trees, planter walls, irrigation systems and planter pots. Sharpstown Park and Golf Course entrance is along Bellaire and will be affected by these improvements to be completed by the end of 2014.
http://www.bellaireconstructionproject.com/about-the-project

Westchase District Long-Range Plan

was built around six elements, two of which relate to parks and open spaces: developing a canal network and creating a connected network of open spaces. Starting in 2014, two-thirds of the revenue from property tax growth collected in the Westchase 380 Area – a region including most of Westchase District and two sections just outside District boundaries – will be available to construct public projects including roads, parks, trails and drainage improvements in the area. The 1.35-mile “Library Loop Trail” was a part of this plan and was completed in 2012.
http://westchasedistrict.com/

City mobility Plan phase 2 (2012-ongoing)
The Greater West Houston Mobility Plan study will explore different land use and transportation scenarios for the Greater West Houston region (which covers portions of Park Sectors 9,10,18 and 19)and examine improved transportation strategies for freeways, toll ways, local streets, transit, and pedestrian and bicycle networks.
http://www.h-gac.com/taq/sub_regional/gw_houston.aspx

PARK SECTOR 11
Plans & Planning Studies

East End Livable Centers Study (2009)
The Greater East End Management District was awarded $5 million in stimulus funds on September 28, 2009, to bring sidewalks to city standards along Navigation, York and Sampson in the East End. These sidewalk improvements will also include lighting, striping, benches, plantings, transit shelters and ramps. All of these improvements are based on extensive community input and will be made between the existing curb and the property lines within the public right of way.
http://www.greatereastend.com/livable-centers-initiative

Urban Village Project
The Greater East End Management District, in association with BetterHouston, is planning a large-scale Urban Village project in Houston's East End. With its proximity to downtown and Metro's Harrisburg line scheduled to begin operating in 2014, this community is set to become Houston's next flourishing urban district. An additional benefit to this area is a standing commitment from the City to assist property owners, residents, and merchants in East End revitalization efforts.
http://www.greatereastend.com/urban-village-project

Fifth Ward Pedestrian and Bicyclist Special District Study (2011)
The boundary of this study from Canal Street on the south to north of I-10, to Hirsch Street on the east and a little past Elysian Viaduct on the west. Recommendations affecting the northwest corner of Park Sector 11 include:1) North-South Rail Trail - Construct new multi-use trail parallel to existing railroad, using unused right-of-way south (Baron Street) of Market Street. 2) Create a safe connection from the west to Finnigan Park. Extend existing Providence Street, connect through Buck or Gillepsie Streets to Finnigan Park. 3) Transform the 20' paved Baron Street into a bike boulevard to Bringhurst Street. 4) Jensen and Buffalo Bayou Bike Connector (New Sidewalks from Baron to Lyons).
http://www.fifthwardcrc.org/bikepedistudy.asp

Mason Park's bridge across Brays Bayou
It is a plan for tying one side of Mason Park to the other, via a roughly 400-foot long pedestrian bridge.

East End Mobility Study (2012)
Comprehensive area bicycle improvements that connect the Columbia Tap, MKT, Harrisburg and Buffalo Bayou Trails and Major Destinations PB3: Implement a regional wayfinding system targeting pedestrian-bicyclist connections as well as automobiles
http://www.h-gac.com/taq/sub_regional/docs/East-End-Mobility-Study-Final-Report-Exec-Summary-Oct30-2012.pdf

PARK SECTOR 12
Plans & Planning Studies

Near Northside Livable Center Study (2010)
Proposes creating public spaces within the area that are walkable, performing infrastructure improvements and existing plans for the study area with special emphasis on plans for the Hardy rail yard and inter-modal center and creating bicycle and pedestrian trails. http://www.greaternorthside.org/LivableCenterStudyNearNorthsideStudy.shtml
One of the projects that need to be done to implement the study is establishing a hike and bike trail along the Little White Oak Bayou that includes connections into the Neighborhood.
http://www.h-gac.com/community/livablecenters/planningstudies/past/northside.aspx

Heights-Northside & Northwest Mobility Study (2014)

The purpose of this study is to identify near and long range projects which promote better mobility by considering a multi-modal classification for streets within the study area which are inclusive of pedestrian, bicycle, transit, vehicular and other modes of transportation. Based on the study the highest population and employment growth in Houston will be mostly inside Loop 610 including Park Sector 12. This change will impact our need for green and public spaces. Mobility studies emphasize a multi-modal mobility solution.

This study identifies gaps in the bikeway system, on-street as well as off-street and maps some of the existing Center Point easements which present opportunities for connectivity. Center Point easements north of Memorial Park and west of Little Thicket Park are of special interest for connectivity from the neighborhoods to the parka and the White Oak Bayou trail system.

http://heights-northside.org/

I-10 Detention Pond Greater Heights Super Neighborhood

The property located north of White Oak Bayou and west of Yale Street has a perimeter surface to be managed by the City of Houston as open space or a recreation area, but not a park. The GHSNC voted the property to be accessible to the public, with the perimeter containing trails and with the property containing sufficient lighting to deter crime.

http://www.ghsn.org/docs/maps/Civic_Map_of_the_Greater_Heights_Super_Neighborhood_-_2011-05-24_-_Full_Size.pdf

PARK SECTOR 13

Plans & Planning Studies

Greater Southeast Management District Service Improvement and Assessment Plan (2008-2018)

The district obtained the Federal Transit Administration (FTA) Grantee Status that allows the district to receive federal funds for pedestrian improvements throughout the district. Hundreds of trees were planted to enhance the beautification of the district. Among the Districts goals are to promote access to bayous and neighborhoods linking transportation routes to hike and bike trails.

http://greatersoutheastonline.com/wp-content/uploads/2013/08/GSMD_Service_Improvement_Assessment_Plan.pdf

Herman Park Centennial Campaign 2014

is the Centennial Year of Hermann Park. Adopted in 1995, the new master plan aimed to increase accessibility, restore the Park's historical elements, encourage community activity through new gathering spaces and increased services, and maintain the Park through thoughtful stewardship programs. Through a public-private partnership with the City of Houston, the Conservancy has secured $84 million toward a $121 million goal for the Centennial Campaign for Hermann Park. Half of this goal is comprised of public funds.

http://www.hermannpark.org/centennial_campaign.php

Medical Center Mobility Study (2014)

The study area includes Rice University, Hermann Park and Zoo, neighborhoods, as well as Reliant Stadium and Reliant Center and an estimated 1,000 acres of vacant land stretching to the South Beltway 8. TxDOT is also conducting three transportation improvements in the same general area. One study is evaluating direct connectors from SH 288 north of IH 610 to the TMC. A second study is evaluating a new interchange for Cambridge at IH 610 South to assist in providing access to the TMC from the West and Southwest sectors of the region. The third study is evaluating the use of toll lanes on SH 288 providing improved access to Harris County from Brazoria County. These three studies are being carefully coordinated between the City of Houston, Harris County, TxDOT, METRO, TMC and other related stakeholder The Team is reviewing the current conditions of the area, including the impact on neighborhoods as well as any recommendations for improvements.

http://www.houstontx.gov/planning/mobility/CMP.html

Houston Inner West Loop Mobility Study (2013)
Explores multi-modal mobility solutions and system transportation improvements. The plan emphasizes connecting existing bicycle facilities and developing new ones to create a comprehensive bike network that provide access to destinations in the area.
www.houstontx.gov/planning/mobility/CMP/IWL/Houston_IWL_Report.pdf

Midtown Livable Center Plan (2010)
This Livable Center Study by the Houston-Galveston Area Council is part of a process to identify strategies for making the Midtown study area more walkable, connected, have mixed-use areas, and be a destination Neighborhood while also keeping local residents' needs in mind. The boundaries of the study are Rosalie Street on the north, Isabella Street on the south, Spur 527 on the west, and Austin Street on the east side. The following are recommendations from this plan that may impact HPARD:

Parks, Plazas, and Open Spaces
In this study area, the only park is Elizabeth Glover Park, so there is a need for more parkland and open space areas here. There is a planned 'Superblock' park at McGowen Station on Main Street. Houston Community College Central Campus is also planning on building a large plaza on their grounds. However, only the HCC Plaza will be within the study area. The study recommends that there be a total of 4.5 acres of parkland within this study area. The future HCC plaza and Elizabeth Glover Park will make up 2 acres of that amount, which leaves 2.5 acres of parkland to build. The study proposes establishing one Neighborhood park and three or four Pocket parks. If possible, the new parkland should be located on the western side of the study area, because that area is lacking in parkland and open space.
www.h-gac.com/community/livablecenters/past-planning-studies/midtown.aspx

Fourth Ward Livable Center Plan (2010)
This Livable Center Study by the Houston-Galveston Area Council is part of a process to identify strategies for making the Fourth Ward study area more walkable, connected, have mixed-use areas, and be a destination Neighborhood while also keeping local residents' needs in mind. The boundaries of the study are Allen Parkway on the north, Dennis Street on the south, Taft Street on the west, and 1-45 on the east side. The following are recommendations from this plan that may impact HPARD:

Parks and Open Space
The study identifies a lack of connectivity between parks, of programs aimed at young adults and of more space for active recreation. It emphasizes the need for parks and open spaces within the area to support the historic nature of the area. The study proposes creating a new crossing to Buffalo Bayou at Allen Parkway and Gillette Street so that residents of this area have better access to the bayou. In addition, the study proposes expanding parkland and programming at the future Bethel Church Park site and establishing a functional ecologic park at the Gregory School for African American Studies. This would be done by removing some of the existing parking spots, which are underutilized. The resulting green space could be used as a recreation area, and the remaining parking lot could potentially be used as a ball court for residents surrounding the area.

The study also recommends improvements at Founders Memorial Cemetery to be used as a historic destination for visitors as well as additional park space for residents. There should also be several community gardens established within the Fourth Ward in order to give a greater sense of community to the area. Opportunities to provide access to the amenities of the local schools within the Neighborhood should also be explored.
www.h-gac.com/community/livablecenters/past-planning-studies/fourth-ward.aspx

Upper Kirby Livable Center Plan (2010)

This Livable Center Study by the Houston-Galveston Area Council is part of a process to identify strategies for making the Upper Kirby study area more walkable, connected, have mixed-use areas, and be a destination Neighborhood while also keeping local residents' needs in mind. The boundaries of the study are West Alabama on the north, US 59 on the south, Buffalo Speedway and Greenbriar on the east side. The following are recommendations from this plan that may impact HPARD:

Parks and Open Space

If the University Light Rail line is built along Richmond Avenue, there would be a station that stops within the Upper Kirby study area. The study proposes that a transit plaza be built at this location that would provide seating, public artwork, fountains, or other elements of placemaking design. In addition, improvements to Levy Park should be made in order to make it more accessible and transit-friendly. There should be several small parks created throughout this study area, if possible, because the area needs more parkland. Finally, Eastside Street from West Alabama to US 59 should be turned into a "green corridor" that would link Levy Park to the rest of the area.

www.h-gac.com/community/livablecenters/past-planning-studies/upper-kirby.aspx

Washington Avenue Livable Center Plan (2013)

This ongoing and current Livable Center Study by the Houston-Galveston Area Council is part of a process to identify strategies for making the Washington Avenue study area more walkable, connected, have mixed-use areas, and be a destination Neighborhood while also keeping local residents' needs in mind. The boundaries of the study are 1-10 on the north, Buffalo Bayou on the south, Memorial Park on the west, and 1-45 on the east side. The following are recommendations from this plan that may impact HPARD:

Redesigning the Memorial-Waugh Interchange

Buffalo Bayou Park, Cleveland Park, and Spotts Park, all of which are owned by HPARD, would all be affected if the Memorial Drive-Waugh Street Interchange were to be redesigned. The study recommends redesigning this interchange in order to improve connectivity and flow to the parks as well as improving connectivity from the Washington Avenue area to Montrose. Also, there would be more land for open space or development. The interchange area does not currently have very safe pedestrian or bicycle crossings.

Pavement to Parks

This recommendation seeks to increase the amount of parks and open spaces within this study area. This study has over ten proposed parcels for new parkland or open space areas. These proposed areas are worth looking at to see if they could be used to expand the amount of parks within this sector.

Bike Lanes

The study offers several suggestions for what streets bike lanes or signed bicycle routes should be established on. In addition, they propose connections for bicycles from Memorial Park and the White Oak Bayou trails. The study also proposes that the bike share network within Houston be expanded.

www.h-gac.com/community/livablecenters/past-planning-studies/washingston-avenue.aspx

PARK SECTOR 15
Plans & Planning Studies

The OST / South Union
Area was selected to receive a significant investment (as part of the Disaster Recovery Round 2 program) in the creation of a quality, affordable multifamily community, known as the Village at Palm Center. The mixed-use, mixed-income community will be located at the intersection of MLK and Griggs Road (2013).
http://debbieswindow.wordpress.com/communities/ostcp-old-spanish-trail-community-partnership/

Project Row House Project
Renovates abandoned homes, construct affordable housing in vacant lots.
http://arch.umd.edu/research/pdfs/PHAM_ThirdWardHouston20110517.pdf

METRO SOUTHEAST Corridors Southeast Light Rail Line/Purple Line
Metro is adding a new transit plan, which includes new light rail lines running from the Uptown-Galleria area to the University of Houston through the Third Ward .The Southeast Corridor, from Downtown Houston to vicinity of Martin Luther King at Griggs will be completed in fall 2014.
http://www.ridemetro.org/AboutUs/

East End Hike and Bike Trails (2013)
$1.5 million in trail upgrades by Harris County Precinct 2 will bring 8-10 foot concrete paths, wayfinding signage, and better connectivity for both cyclists and pedestrians to other modes of transportation, including the new light rail line on Harrisburg, and to schools, workplaces, and parks. Additionally, TIGER IV grant funds of $6.1 million will improve and add sidewalks and dual-use paths to many more East End streets, along with pedestrian lighting and street furniture.
http://www.greatereastend.com/east-end-hike-and-bike-trails#more-2998

PARK SECTOR 16
Plans & Planning Studies

Discovery Green
Opened in 2008, the park includes a lake, bandstands and venues for public performances, two dog runs, a children's area and multiple recreational areas. Solar panels, sponsored by BP, have been generating green energy for the park since their installation in late 2007.
http://www.discoverygreen.com/why-discovery-green-is-%22green%22

Houston Bike Share Program (2014)
The Houston B-cycle program began with three stations in April 2012 as a pilot program. The system now includes 29 stations and is averaging 1,850 checkouts per week. Houston B-cycle stations are located inside the 610 loop mostly in Park Sectors 16 (Downtown) and 14 (west of Downtown). There are also one or two stations in all other Park Sectors inside 610.
https://houston.bcycle.com/home.aspx

Houston Public Central Library
The renovation includes expanding and enhancing children's and teen's services, and providing additional space for the public.

Harris County Jury Assembly Room and Transportation Plaza
was converted from a parking lot to a public park (2011)with four below-grade, 250-seat jury assembly rooms which are tunnel connected to the Criminal Justice Center, Civil Courthouse, Juvenile Justice Center, and Family Law Center.

METRORail North and Southeast Corridors

North Corridor construction continues the Main Street Red line and connects the University of Houston-Downtown to the Northline Station, north of 610. The downtown portion of the Southeast Alignment will connect residents and businesses to the East End Alignment and the Main Street Red line. The downtown segment runs a little more than a mile (from IH-45 to US-59). It starts on Nagle Street and travels west on Capital and east on Rusk. Six stations will be established – on Capital at Crawford, Fannin, and Smith Street and on Rusk there will be stations at Smith, Fannin and Crawford
http://www.downtowndistrict.org/Home/Development/ProjectList/

Downtown/EaDo Livable Centers Study (2011)

This study covers an 11x16 block area bounded by Pease, St. Charles, Commerce and Austin. The pedestrian recommendations include the creation of a north-south linear park to connect light rail transit to the Bastrop Promenade. The bicycle recommendations include implementing a separated on-street bike path pilot project
www.h-gac.com/community/livablecenters/past-planning-studies/downtown-eado.aspx

PARK SECTOR 17

Plans & Planning Studies

Northside Livable Center Plan (2010)

This Livable Center Study by the Houston-Galveston Area Council is part of a process to identify strategies for making the Northside study area more walkable, connected, have mixed-use areas, and be a destination Neighborhood while also keeping local residents' needs in mind. This plan outlines a series of recommendations: 1) Encourage a regional open space network along Little White Oak Bayou including Neighborhood connections, 2) create a stronger pedestrian connection at the Burnett/North Main Tunnel while implementing "Parkway" upgrades to Burnett Street, 3) Create streetscape improvements along the east-west Hogan/Lorraine corridor, and establish plazas and small open spaces within publicly owned METRO remnant properties along the rail corridor.
www.h-gac.com/community/livablecenters/past-planning-studies/northside.aspx

The Fabulous Fifth: A Revitalization Strategy for Houston's Fifth Ward (2012)

This plan focuses on strategies to be developed with Lyons Avenue as a focal point of the community. There is a desire to have more recreational options for youth closer to the area as well as a desire to have more small parks that are programmed in the Neighborhood.
www.aia.org/aiaucmp/groups/aia/documents/document/aiab095606.pdf

Fifth Ward Pedestrian and Bicyclist Special District Study (2012)

There are two projects recommended in this study that would have a positive impact on parks in this Park Sector: 1) Jensen and Buffalo Bayou Bike Connector (new sidewalks from Buffalo Bayou along Jensen to Lyons) and 2) painting the bike lanes green on Lyons Avenue from Hirsch Road to McKee Street. Hennessy Park fronts onto Lyon Street.
www.h-gac.com/community/qualityplaces/pedbike/special-districts.aspx

Homestead Stormwater Detention Basin (HCFCD Unit H500-01-00) Draft

The Homestead Stormwater Detention Basin is located on a 75-acre site near the northeast corner of Homestead Road and Loop 610 and will help to reduce flooding damages by safely storing excess stormwater during heavy rain events and slowly releasing it back into the bayou as water levels recede. The first phase of excavation of the basin was completed in 2009. This phase removed more than 265,000 cubic yards of soil and cost approximately $1.25 million. The second phase of excavation began in summer 2013. This phase will remove more than 647,000 cubic yards of soil and is estimated to cost $5.1 million. The third and final phase of excavation is not yet funded. Upon completion of all phases, the Homestead Stormwater Detention Basin will hold approximately 300 million gallons of stormwater that would otherwise flood houses and businesses along Hunting Bayou.
www.hcfcd.org/L_huntingbayou.html

PARK SECTOR 18

Plans & Planning Studies

West Houston Mobility Plan (on-going)

The Greater West Houston area, home to nearly 660 thousand residents and 388 thousand jobs, has seen significant growth over the last 20 years. H-GAC has initiated a comprehensive transportation and land use study for West Houston. The study will collect information to analyze existing land use and envision future land-use scenarios (including protection of environmentally sensitive areas and green spaces).
http://www.h-gac.com/taq/sub_regional/gw_houston.aspx

West Houston Hike and Bike Trail Master Plan (2009)

In October, 2008, The Energy Corridor District and the National Park Service conducted a stakeholder workshop. Seventy-eight participants drew proposed trail lines on the West Houston maps, completed surveys and prioritized important characteristics they'd like to see in a trail system Connect new trails .
Some recommendations from this plan include:

- • Developing a road- and bridge-abutment slope policy that support future trail additions by providing a ledge under bridges or elevated roadways allowing a trail along drainage ways.
- • Developing recreational-use easements on all open and accessible areas currently slated as public maintenance easements.
- • Adopting trail corridors in this and other regional plans and, when properties containing proposed trail corridors are submitted for development review, incorporating requirements for implementation responsibilities.
- • Including a minimum 8-foot wide multi-use trail or a set aside easement in the design of new public road right-of-ways.
- • Evaluating vegetation management policies that surround drainage and riparian corridors to encourage appropriate vegetation growth, reforestation of the upper banks and habitat restoration, improved water quality and reduced maintenance costs.
- • Removing unnecessary fencing surrounding detention basins, thus expanding amenity opportunities to allow trail access, wildlife reviewing and habitat development

http://www.energycorridor.org/parks-trails-recreation/west-houston-trails-master-plan

Alief SPARK Park and Nature Centre

This 7-acre parcel of land is located at the corner of Beechnut and Dairy View. The signature element of the nature center is the pavilion. It was designed and built by University of Houston architecture students. The $35,000, 20-by-20-foot structure, funded by the SPARK School Park Program, features a roof resembling the wings of a butterfly that funnel rainwater into eight rain barrels, benches, crushed granite flooring, and a solar panel to provide power for lights and fans.
http://www.imdhouston.org/IMD/parks-and-recreation

PARK SECTOR 19

Plans & Planning Studies

Neighborhood Street Reconstruction (NSR) Project

The project, which improved drainage in the community, replaced existing residential streets that have deteriorated beyond economical repair and normal maintenance. The project, completed in March 2013, involved the design and construction of concrete paving with storm drainage, curbs, sidewalks, driveways, street lighting and necessary underground utilities.
http://sbmd.org/rebuild-houston-project-completed-in-spring-branch-area/

PARK SECTOR 20

Plans & Planning Studies

Spring Recreational Area

Being built by the Greenspoint Redevelopment Authority is a 10-acre site located at Rankin and Kuykendhal that will feature a world-class skateboard park on one side and a park without limits for special needs patrons on the other. Construction began in January of 2013 and is expected to be complete by 2014.
http://www.greenspoint.org/blog.aspx

Cypress Creek Greenway

Cypress Creek Greenway is a project of Harris County Precinct 4 in partnership with Cypress Creek Flood Control Coalition, Harris County Precinct 3, Texas Park and Wildlife and MUDs in the area, that seeks to connect Cypress and Little Cypress Creeks through and extensive system (Hwy 249 to US 59) of parks and over 40 miles of trails.
http://www.hcp4.net/Parks/ccgw/index.htm

PARK IMPROVEMENT PREFERENCES OF UNDER-SURVEYED POPULATIONS

Parks and Recreation | Houston Action Research Team (HART)
May 2015

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Executive Summary

Our Houston Action Research Team (HART) was charged with designing and conducting a survey to supplement and verify the findings from the Houston Parks and Recreation Department's (HPARD) web-based *2014 Master Plan Survey*, which indicated that Houston residents widely desire increased connectivity between parks and neighborhoods. Respondents to the 2014 HPARD survey were predominantly high income, non-Hispanic Whites living on the west side of Houston, within or immediately outside the 610 loop. To obtain a more representative perspective on park improvement preferences, our team of four Rice undergraduate students designed and conducted a survey targeting Black, Hispanic, and low-income park users at parks on the east side of the city. We conducted face-to-face interviews with 403 park users at 18 parks in park sectors 2, 7 and 15. Park users were asked about their preferences in two different ways: an open-ended question in which they could voice any opinions on what they would like to see from the Parks Department, and a multiple choice question asking them to choose their priority among three of the highest-rated preferences from the 2014 HPARD survey. When survey respondents were given options, their first choice was to clean-up and repair parks; greater connectivity was their second choice. Further examination of the data suggests that there may be a correlation between the quality of the park at which the interview took place and the desire for connectivity. This suggests the possibility of a threshold effect: once parks achieve a particular standard of quality, park users will prioritize greater connectivity. We recommend further research into the preferences of park users in Houston, the variation in park quality across the city, and the situations in which opportunities for greater connectivity exist.

Background and Context

In spring and summer of 2014, the Houston Parks and Recreation Department (HPARD) conducted the *2014 Master Plan Survey* to gather information on park usership and residents' priorities for park improvements. The Center for Civic Leadership (CCL) at Rice University produced a report on the findings from the survey. The results of the survey were unexpected because they indicated that Houston residents desire additional connectivity between parks and neighborhoods. Demand for neighborhood connections to parks and trails was high among all parks visitors, including infrequent visitors. At least 60% of all racial/ethnic groups represented in the sample ranked connecting neighborhoods to parks and trails as their highest rated priority for HPARD. Correspondingly, two-thirds of respondents ranked hike, bike, and walk trails at parks as the most "needed" facility at Houston parks.

Although a majority of survey respondents considered connectivity between neighborhoods and parks to be a top priority, the results of the 2014 survey are not generalizable to all of Houston because the 1,849 person survey sample did not resemble the city's population. Non-Hispanic Whites comprised 63.5% of survey respondents, though they make up 25.8% of the population of Houston. Households without children and households with annual incomes above $75,000 were also overrepresented. The sample was also skewed geographically: 73.3% of all survey respondents lived in just seven of Houston's twenty-one park sectors, and twelve of the park sectors comprised less than 3% of the total pool of respondents. Hispanics and Blacks were underrepresented in the survey sample, considering that they constitute 43.7% and 22.6% of Houston's population, respectively. Previous research on parks has shown that racial and ethnic groups have distinct park usage tendencies and varying park attribute preferences. Because such variation exists, we believed that the preferences of the Hispanic and Black communities needed to be studied further in order to better inform HPARD's development of a new master plan.

In order to test the validity of the findings of the 2014 survey, a follow-up survey targeting underrepresented groups needed to be conducted. We created an enhanced survey instrument with questions adapted from the web-based survey to learn more about the park usage tendencies and the preferences of these underrepresented populations. Face-to-face interviews of parks users were conducted to determine whether Hispanic, Black, and low-income populations of Houston would prefer more connectivity between neighborhoods and parks, as implied by the original survey. Believing that the original online format of the original survey may have excluded individuals with limited internet access, we reduced this bias toward internet users by conducting face-to-face interviews with parks users at specific Houston parks. Our goal was to provide HPARD with information about the preferences of parks users that the department could use to inform their next master plan.

Methodology

Between February and mid- April of 2015, we designed an enhanced survey instrument, selected park sectors and specific parks at which to survey, trained a team of six undergraduate assistants, and conducted 403 face-to-face interviews with park users, ages 18 and older. By approaching individuals at targeted parks, this research design balanced the effects of selection bias present in the 2014 Web-based Master Plan Survey, in which those with internet access and knowledge of the survey self-selected to complete the survey online.

The seven questions asked in our survey were designed to determine the park improvement preferences of park users and allow us to compare these expressed preferences to the results from HPARD's web-based survey. The survey included questions about the respondents' general park visitation habits: frequency of visitation to the specific park at which they were being interviewed (Question 1), which additional parks they visited (Question 2), and the activities they usually engaged in at the park (Question 4). Because questions regarding the need and desire for greater connectivity were of particular interest to the project, respondents were also asked about the mode of transportation they used to travel to the park (Question 3). Finally, we asked respondents to give their zip code (Question 7), which allowed us to obtain two additional pieces of information: 1) an estimation of each park user's household income, based on the median household income of residents of that zip code, and 2) an estimation of the distance that respondents travelled from their home to the park.

Respondents were asked an open-ended question (Question 5) about what improvements they thought would make Houston parks better. The open-ended form was chosen so as not to bias the results by restricting responses to pre-determined categories. The next question (Question 6) asked respondents to identify which potential improvement would be their top priority from a list of three options: "cleanup and repair existing facilities," "develop new facilities," or "create new biking and walking connections between neighborhoods and parks." These three options were adapted from some of the most frequently selected answer choices on the HPARD survey. Since a desire for greater connectivity was a prominent finding in HPARD's survey, we included connectivity as a potential answer choice to test this finding. We did, however, alter some language from the original survey in order to clarify the meaning of "connections." This closed-ended question allows us to both understand parks users' desire for connectivity relative to other improvements and to compare their responses to the findings of the web-based survey. (See Appendix B for the complete list of survey questions in English and Spanish.)

Our team, together with trained undergraduate assistants, conducted face-to-face interviews with park users in park sectors 2, 7, and 15. These sectors were chosen in concert with HPARD on the basis of reaching the targeted demographic of Black and Hispanic parks users who were underrepresented in the

2014 web-based survey. Each of these park sectors was underrepresented in the web-based survey and has a large Black or Hispanic population. Figure 1 displays a map of the three selected park sectors.

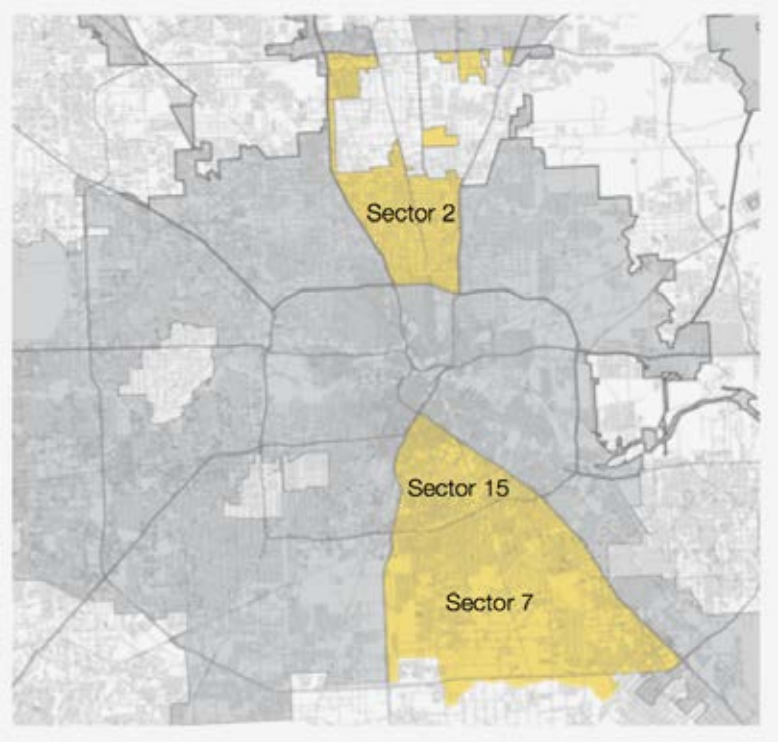


Figure 1: Park Sectors 2, 7, and 15

In deciding which parks to visit within the targeted sectors, we solicited the advice of representatives from HPARD. We prioritized parks at which it would be likely to find a large number of users engaged in a variety of activities, although several smaller parks with fewer users were also visited multiple times to obtain a more representative sample. Each of the parks recommended by HPARD was visited at least once; a complete record of park visitations a record of parks visited can be found in Appendix A. (It should be noted that the overwhelming majority of responses for sector 15 came from MacGregor Park. Responses from MacGregor constituted 102 out of 403 total responses.)

Our goal was to conduct 384 interviews. We calculated this to be the number of survey responses required to be confident that our findings could be generalized to the populations of the three park sectors we visited with a 5% margin of error. We ultimately exceeded this goal, conducting 403 interviews at 18 parks.

Findings

Demographics

We were successful in reaching our targeted demographic of predominantly Black and Hispanic park users: of the 403 respondents, 44% were Hispanic/Latino and 47% were Black (Figure 2). 56% of those surveyed were women, while 44% were men (Figure 3). Our sample included many young adults. 64% of the sample were park users under the age of 40 (Figure 4). Using the respondent's reported zip code and U.S. Census data to estimate income characteristics, we determined that three-fourths of respondents lived in zip codes with a median household income of $41,980 or less (Figure 5). The median household income in Houston is $45,010.

Figure 2: Race/ethnicity

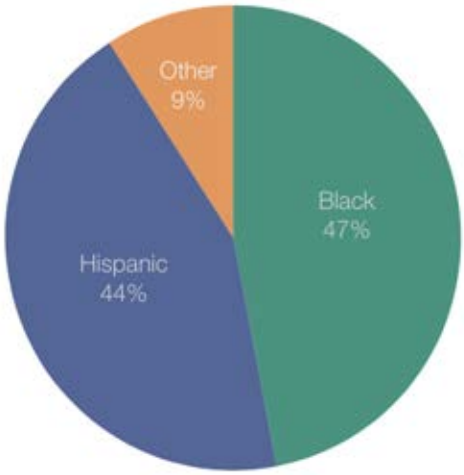


Figure 3: Gender

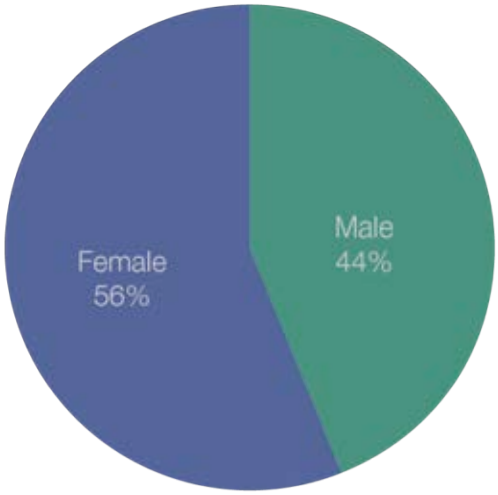


Figure 4: Age

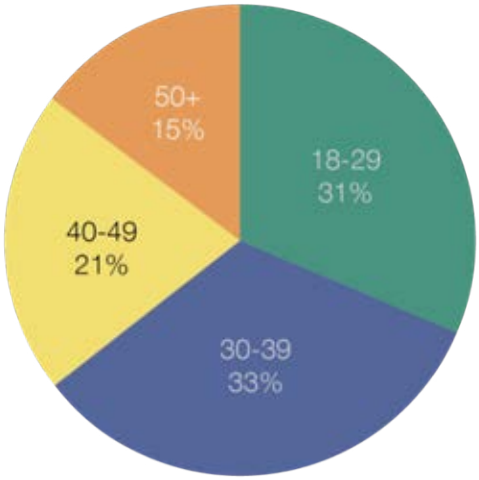
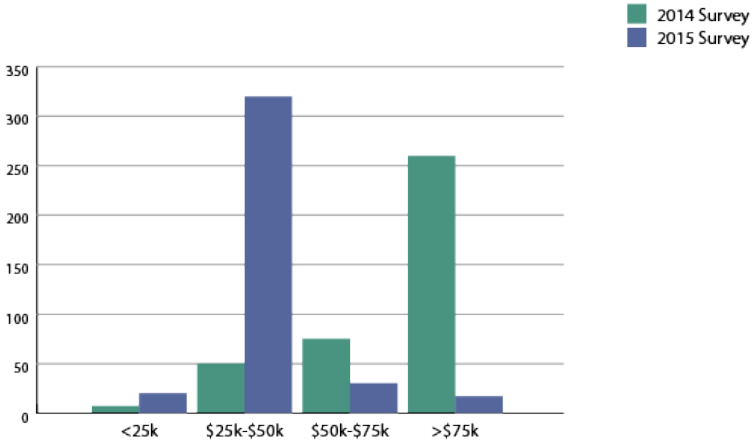


Figure 5: Income



The demographic composition of our sample is quite different from that of HPARD's *2014 Master Plan Survey*. Non-Hispanic Whites comprised 65.9% of respondents in the HPARD survey, while in our survey non-Hispanic Whites are 5.2% of the sample. Our sample is also younger than the sample in the first survey: 50.5% of respondents to the HPARD survey were under the age of 45, while in our survey approximately 64% of respondents were under the age of 40. Age and family structure can be important influences on park users' preferences. Because so many of our respondents are young adults, they are more likely to have young children and therefore may use parks differently than the older sample obtained in the web-based survey.

Usership Characteristics

About one-half of respondents (48%) visited the park at which they were surveyed at least once a week. Over a third of respondents (36%) were exclusive users of the park at which they were surveyed, and an additional 32% reported visiting only one other Houston park. Overall then, 68% of respondents were users of only one or two parks. 132 of our respondents visited "Signature Parks" in Houston, such as Hermann Park or Memorial Park.

Figure 6 displays how respondents reached the park. Over three-fourths of respondents (79%) drove a car, 16% walked, and 2% rode a bike. Figure 7 displays the estimated distance that respondents traveled to reach the park[1]. Based on this estimate, close to half (46%) of respondents lived within one mile of the park at which they were surveyed, while 60% lived within two miles of the park. Given that many respondents drove to the park, the fact that many respondents also appear to live within biking or walking distance suggests that there is an opportunity for increased connectivity. Additional research would be necessary to explore this opportunity.

Figure 7: Distance travelled

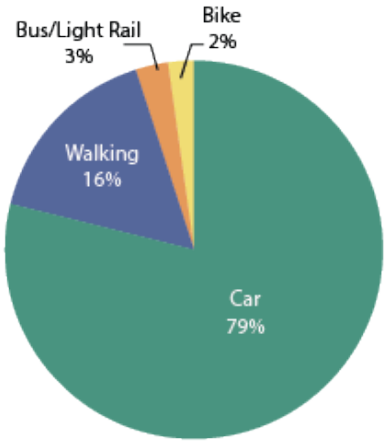
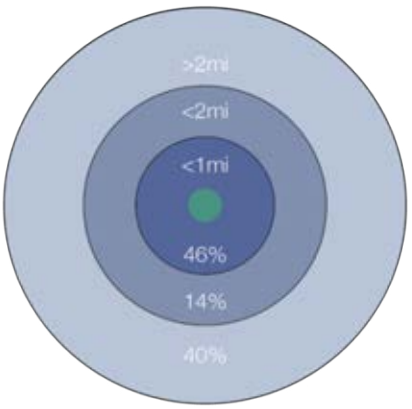


Figure 6: Form of Transportation



[1] The survey asked the respondent what zip code they lived in. We used the centroid of the zip-code to determine the approximate distance people traveled to the park at which they were surveyed.

Improvement Preferences

When asked an open-ended question about the improvements and changes they believed would make Houston parks better, park users offered a wide variety of suggestions. Figure 8 groups these responses into a few broad categories. 54% of respondents wanted new recreation and leisure facilities, such as playground equipment, sport facilities, swimming pools/spraygrounds, and dog parks. 37% wanted additional "health and cleanliness facilities," which includes restrooms, trash cans, and water fountains. Maintenance concerns were mentioned by 25% of respondents, while 23% cited safety and security issues. In their open-ended responses, only three respondents expressed a desire for what we define as greater connectivity: increased walking and biking connections between neighborhoods and parks. Only 16 respondents expressed a desire for more hike, bike and walk trails at parks -- an improvement that is related to, but distinct from, connectivity.

Figure 9 expands these categories to show a more detailed breakdown of responses. As we can see, requests for additional or improved playground equipment constituted a large portion of new recreation facilities responses, while additional/increased access to restrooms made up the bulk of "health and cleanliness facilities" responses.

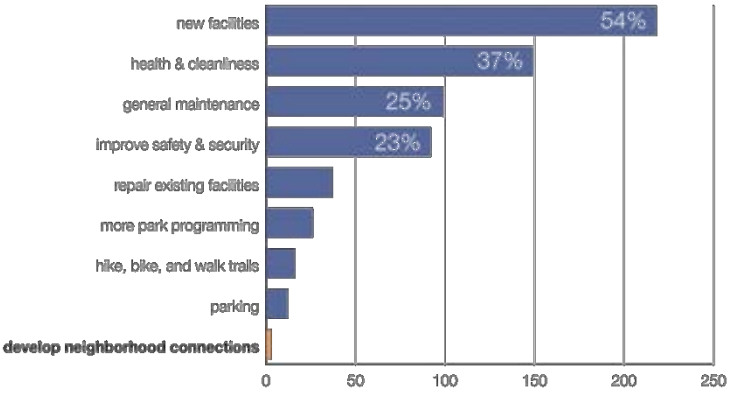


Figure 8: Responses to Q5

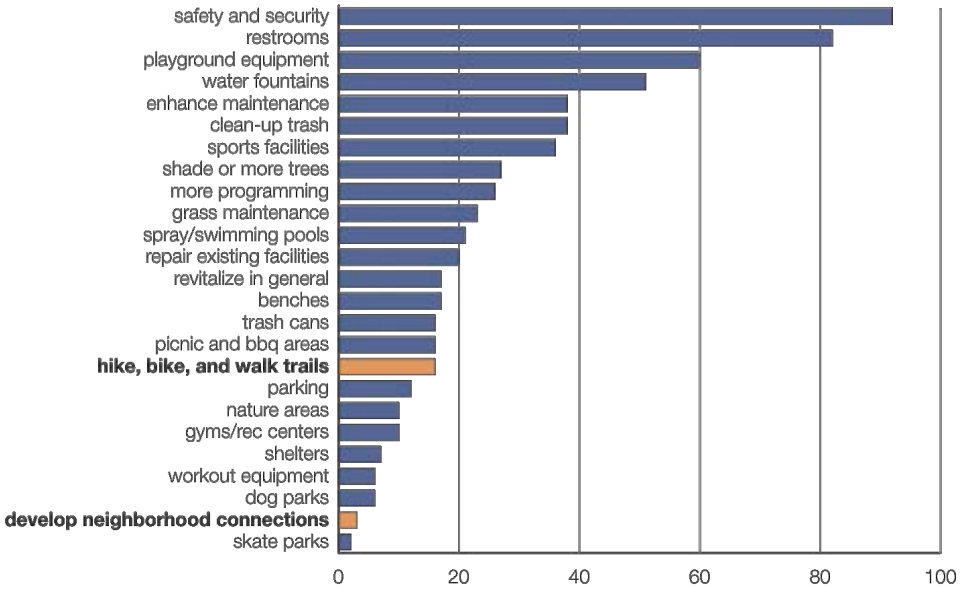
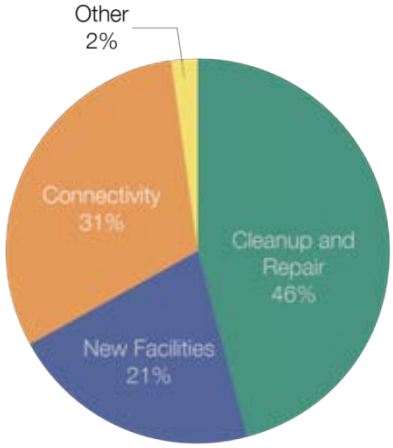


Figure 9: Responses to Q5 (expanded)

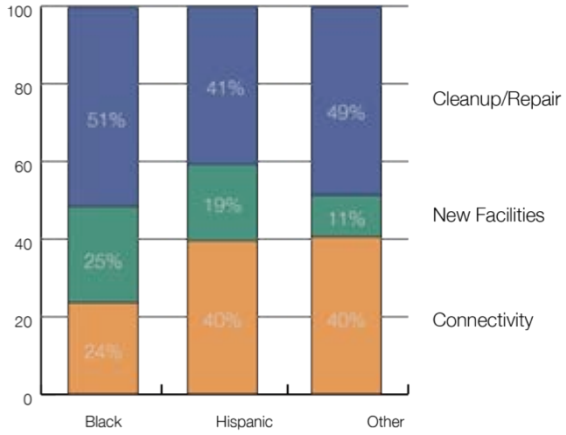
Following the open-ended question, respondents were asked to choose their top improvement priority from a list of three options adapted from the original survey: a) clean-up and repair existing facilities, b) develop new facilities, or c) create new biking and walking connections between neighborhoods and parks. Respondents were also told that they could name a fourth, unlisted option if none of the other three appealed to them. Figure 10 displays the percent of respondents selecting each option. "Clean-up/repair" was chosen most frequently (46%), followed by "neighborhood connections" (31%), followed by "new facilities" (21%). Examples of "other" responses include: improve safety and security, publicize parks programs more, and tai chi classes.

Figure 10: Park users' improvement preferences



Respondents' improvement priorities did not appear to vary significantly by park sector, gender, age, or mode of transportation to the park (see: Appendix E). Figure 11 displays priority preferences according to race/ethnicity of respondents[2]. Hispanics are somewhat more likely than Blacks to prioritize neighborhood connections (40% versus 24%), while Blacks are more likely to prioritize "clean-up/repair existing facilities" by a margin of 10%.

Figure 11: Priority by race/ethnicity

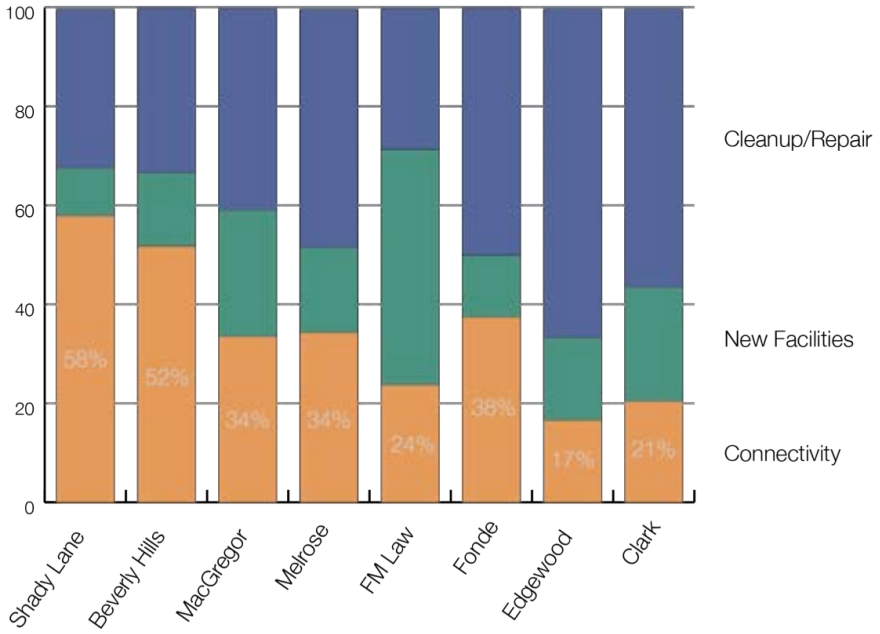


[2] The "Other" category in Figure 11 comprises all racial and ethnic groups other than Black and Hispanic. This includes Whites, Asians, Pacific Islanders, American Indians, and persons of multiple or other races.

Overall, we noticed that responses to Question 6 (the question asking respondents to select their park improvement priority among three options) appeared to vary the most according to the park at which the interview was conducted, rather than according to any particular demographic or usership characteristic. We formed the hypothesis that users of high quality parks were more likely to desire neighborhood connections, while users of lower-quality parks were more likely to prioritize cleaning up and repairing existing facilities. To test this hypothesis, we developed a subjective measure to rate the parks we visited according to their quality. We then ranked the parks in the order of the scores they were given. A full description of the quality measure may be found in Appendix C.

We found that there is a correlation between our rating of park quality and users' priorities for park improvement. Figure 12 shows respondents' improvement priorities according to the quality of the park at which they were surveyed, with the highest quality parks on the right and the lowest quality parks on the left. Only parks with 15 or more responses were included because many parks we visited had only a few adult visitors during the time we were conducting interviews. Using our subjective measure of park quality, we observe that, as park quality decreases, preference for neighborhood connections decreases, while preference for clean-up/repair of existing facilities increases. For example, visitors of Shady Lane Park, which we ranked as the highest quality park, were nearly three times as likely to say they desired connectivity as visitors of Clark Park, a park that ranked low on our metric.

Figure 12: Improvement Priority by Park Quality



Discussion

Our results indicate that increased biking and walking connections between neighborhoods and parks is not the first improvement that park users think of when asked how Houston parks could be made better. Only three respondents out of 403 mentioned neighborhood connections in response to our open-ended question. Respondents were much more likely to suggest more traditional park improvements, such as new recreation and leisure facilities (54%); "health and cleanliness facilities" including restrooms, trash cans, and water fountains (37%); enhanced maintenance (25%), and safety and security concerns (23%). Respondents to the 2014 web-based survey rated hike, bike, and walk trails as the most needed recreational facility at parks in their neighborhood. Despite the overwhelming desire for trails in HPARD's survey, this finding was not replicated among respondents to our survey. Only 16 of our respondents requested additional hike, bike, and walk trails at parks.

Furthermore, when respondents were asked to choose their top priority from a list of three improvement options, neighborhood connections still did not emerge as the most important improvement for park users. "Clean-up/repair existing facilities" was chosen by 46% of respondents, with almost a third (31%) choosing increased connectivity as their highest priority. Only about one-fifth (21%) selected "develop new facilities" as their top priority, an interesting result considering the large percent of respondents that mentioned new facilities in response to the open-ended question. We believe that this is attributable to the nature of the question: when asked to give suggestions off the top of their head, respondents tended to give their "wish list" of park improvements: more playground equipment, more sports fields, a new pool, etc. When-asked to choose, however -- and when made aware of "neighborhood connections" as a potential improvement -- respondents prioritized the clean-up and repair of existing facilities, followed by neighborhood connections.

The results of our interviews appear to support one important finding from the original web-based survey: preferences for park improvements do not seem to vary greatly across racial and ethnic groups, particularly once park quality is included as a factor in preferences. Findings from the 2014 HPARD survey, for instance, showed that at or above 60% of all racial/ethnic groups ranked connecting neighborhoods to hike, bike, and walk trails as their highest priority for HPARD. There was somewhat greater variation among 2014 respondents who ranked revitalizing parks as their highest priority: enhancing and revitalizing parks was a greater priority for non-Hispanic Blacks (73%), Hispanics (65%), and Asians (56%) than for non-Hispanic Whites (52%). This variation raises the question of whether Blacks and Hispanics are visitors of lower-quality parks than their White counterparts, leading them to have a stronger preference for revitalization efforts.

Among respondents to our own 2015 survey, Hispanics were somewhat more likely to prioritize neighborhood connections, while Blacks were more likely to prioritize cleanup and repair. We believe,

however, that this difference may actually be more reflective of the quality of park at which the respondent was surveyed. After developing a metric to rank parks according to quality, we observed that lower quality parks were correlated with greater “cleanup and repair” responses. This suggests that there may be a threshold of park quality that parks must meet before respondents will prioritize increased connectivity. When a park is of low quality, users will generally prioritize the cleanliness and maintenance of the park before considering amenities such as neighborhood connections. Additionally, our findings show that preferences did not vary greatly according to age or gender, as shown in Appendix E.

Conclusion

Our objective was to determine the park improvement preferences of underrepresented groups and, more specifically, to verify the strong support for connectivity indicated by the HPARD *2014 Master Plan Survey*. The results from our face-to-face interviews do not replicate the same strong preference for connectivity found in the original web-based survey. Respondents to our survey prioritized the clean-up and repair of existing facilities, while increased neighborhood connections was of secondary importance.

It should be noted that these results do not outright contradict the findings of the original survey; rather, they complement and complicate them. In the web-based survey, respondents were presented with a large variety of improvements from which to choose, and they were allowed to select multiple choices. When asked about preferences in this way, respondents showed that greater connectivity between neighborhoods and parks was an important improvement to them. However, in the follow-up survey when our targeted group of respondents was asked to prioritize, connectivity was relatively less important than cleaning up and repairing existing facilities. Finally, when our respondents were not offered any choices at all, the idea of greater connectivity rarely occurred to them. The difference in findings between the two surveys, though, is not solely attributable to methodology. We suspect that, compared to respondents to the web-based survey, our respondents were users of lower-quality parks, and that this difference contributed to differing preferences for potential park improvements. An important conclusion from our research, then, is that when trying to determine what residents want from their park system, the people we talk to, the way we reach them, and the questions we ask matter greatly for the responses we receive.

Recommendations

Based on our research, we recommend that, while HPARD should remain interested in initiatives to increase walking and biking connections between neighborhood parks, it should first and foremost continue its efforts to improve the quality of Houston parks through revitalization projects, such as the recent renovation work done at Shady Lane. Our research suggests that park users prioritize greater connectivity only after a park has reached a certain threshold level of quality. To verify this theory, a future project could conduct before and after interviews at a lower-quality park undergoing significant renovation, measuring the extent to which support for connectivity increases after the revitalization project is completed.

The existence of "connectivity gaps" is a second area for future research. Based on distances estimated using respondents' zip codes, we determined that 60% of our sample lived within two miles of the park, yet 79% chose to drive to the park. In addition to collecting more precise data to verify this finding, future research could explore the reasons why park users choose to drive rather than walk or bike, and determine what, if anything, could be done to entice them to switch to a different form of transportation. (See Appendix F for park-specific recommendations and observations from selected parks.)

Appendix A: Record of Park Visitations

Sector	Park	Dates visited	Interviews Conducted
2	Clark	3/14	39
2	Northline	3/29	8
2	Melrose	3/29	30
2	Shady Lane	3/25	34
7	Beverly Hills	3/29	29
7	Cloverland	3/20, 3/22, 4/6, 4/8	17
7	Edgewood	3/20, 3/22, 4/6, 4/9	27
7	F.M. Law	3/22, 4/6, 4/8, 4/9	32
7	Garden Villas	3/20, 3/22, 4/6	9
7	Sims Bayou	4/8	0
7	Southcrest	4/9	7
7	St. Lo	3/20	2
7	Sunnyside	3/20, 3/26	23
15	Beech-White	3/15	0
15	Bennett Mills	3/24, 3/29	0
15	Calloway	3/24, 3/29	6
15	Fonde	3/15, 4/8	16
15	Gragg	4/4, 4/8	1
15	Nelson (George T.)	3/24, 3/29, 4/8	14
15	MacGregor	3/15, 4/4, 4/8	102
15	Madison	3/29	0
15	Park at Palm Center	3/15	0
15	Riverside	3/29, 4/8	7
15	Zollie Scales	3/24, 4/8	0

TOTAL INTERVIEWS: 403

Appendix B: Survey Response Forms (English and Spanish)

Parks and Rec HART - Survey Response Form

Date:
Time:
Surveyor:
Park:

1. How often do you come to this park?
- o At least once a week
- o Once every couple of weeks
- o About once a month
- o A few times a year
- o Less than a few times a year

2. What other Houston parks do you go to?

3. How did you get to the park today?
- o Car
- o Bike
- o Walking
- o Bus or light rail
- o Other: _____

4. What do you usually do at this park?

Fitness
- o Walk/jog/run
- o Bicycle
- o Team/individual sports (Specify: _____)
- o Parks-sponsored programs (youth/adult sports leagues, community classes…)
- o Walking dog

Leisure
- o Socialize
- o Family time
- o Picnic
- o Playground
- o Sit

Other: _____

5. What changes or improvements do you think would make parks in Houston better?
- o Revitalize existing parks (replace)
- o Develop new parks facilities
  - o Playground areas and equipment
  - o Picnic areas and pavilions
  - o Hike and walk trails
  - o Bike trails
  - o Sports facilities (Specify: _____)
  - o Open space, nature areas
  - o Spray parks/swimming pools
  - o Gymnasiums
  - o Skate parks
  - o Dog parks
  - o Performing arts spaces
  - o Recreation centers
  - o Restrooms/water fountains
  - o Benches
  - o Trashcans
  - o Parking
  - o Outdoor exercise equipment
  - o Other: _____
- o Acquire new parkland
- o Enhance park maintenance (clean up)
  - o Specify: _____
- o Develop neighborhood connections to parks or trails
- o Preserve environmentally friendly sensitive areas
- o Improve security and safety
- o Improve/expand programming
- o Other: _____

6. Which of the following three potential improvements do you think would do the most to improve Houston parks? **ROTATE.**

a. Cleanup and repair existing facilities at parks
b. Develop new facilities at parks
c. Create new biking and walking connections between neighborhoods and parks
(If C: Walking, biking, or both?)
d. Other: _____

7. Zip code: _____

Demographic info Observations (e.g. who are they with?):

Sex: Female Male

Age: 18 – 29 30 – 39 40-49 50-59 60-69 70-79 80 and over

Race: White Black Hispanic Asian Other Mixed unsure

Parks and Rec HART - Survey Response Form

Date:
Time:
Surveyor:
Park:

1. Con qué frecuencia visita usted este parque?
   - Más de una vez a la semana
   - Una vez cada dos semanas
   - Alrededor de una vez al mes
   - Unas pocas veces al año
   - Menos de algunas veces al año

2. Cuales otros parques en Houston visita usted?

3. Cómo llegó al parque hoy?
- Carro
- Bicicleta
- Caminar
- Tren/bus
- Otro:_____

4. Por lo general, qué hace en este parque?

Salud
- Caminar/trotar/correr
- Andar en bicicleta
- Jugar deportes (cuales:____)
- Usar programas del Departamento de Parques y Recreación
- Pasear al perro

Diversión
- Socializar
- Pasar tiempo con la familia
- Picnic
- Parques infantiles con niños
- Sentar

Otra actividad: _____

5. Que cambios o mejoramientos piensa usted mejorarían los parques de Houston?
- Revitalizar a parques que ya existen
- Desarrollar nuevas instalaciones en parques
  - Parques infantiles y equipaje
  - Pabellones y áreas para picnic
  - Senderos para caminar
  - Senderos para andar en bicicleta
  - Canchas y campos para deportes (Especificar: _____)
  - Campos; mas áreas de pasto
  - Piscinas; amenidades de agua
  - Gimnasios
  - Pistas de skate
  - Parques para los perros
  - Espacios y plataformas para representaciones
  - Baños/bebederos
  - Bancos
  - Basurero
  - Estacionamiento
  - Equipaje para hacer ejercicio
  - Otro: _____
- Conseguir mas tierra para parques
- Mejorar el mantenimiento de parques
  - Especificar: _____
- Crear conexiones entre barrios y parques/caminos/senderos
- Preservación medioambiental
- Mejorar seguridad
- Mejorar/expandir programas
- Otro: _____

6. Cuál de las tres siguientes opciones mejoraría más los parques de Houston? **ROTATE.**
a. Limpiar y reparar las instalaciones y el equipo existentes en parques
b. Crear nuevas instalaciones y equipo en parques
c. Crear nuevas conexiones para caminar y montar en bicicleta entre barrios y parques
(Si C: caminar, bicicleta, o los dos?)
d. Otro: _____

7. Cuál es su código postal? _____

Demographic info Observations (e.g. who are they with?):

Sex: Female Male

Age: 18 – 29 30 – 39 40-49 50-59 60-69 70-79 80 and over

Race: White Black Hispanic Asian Other Mixed unsure

Appendix C: Ratings of Parks Visited by Quality

Our team created a metric to rate the quality of each of the parks at which we conducted interviews. The scores could range from 5 to 14.

The indicators we considered when rating the parks were:

- Cleanliness/Maintenance (1 to 4 points)
- Presence of facilities (1 point for having few facilities, 2 points for having many)
- Quality of facilities (1 to 4 points)
- Our overall impression of the park (1 to 4 points)

Each member of our team individually assigned a score to each park, based on the 4 metrics above. We then ranked the parks according to their average scores and grouped them into four tiers based on our impressions of their quality.

Park	**Sector**	**Score**	**Tier**
Shady Lane	2	13.5	1
Riverside	15	13.1667	1
Garden Villas	7	11.6667	1
Beverly Hills	7	11.25	1
MacGregor	15	11.1667	2
Melrose	2	11	2
FM Law	7	11	2
Sunnyside	7	10.5	2
Calloway	15	10.5	2
Fonde	15	10.3333	3
Edgewood	7	10	3
Nelson	15	9.6667	3
Cloverland	7	9.3333	3
Gragg	15	9	4
Clark	2	8.50	3*
Southcrest	7	8.25	4
Northline	2	8	4
St. Lo	7	7.25	4

*Although Gragg Park had a higher ranking than Clark Park, we opted to categorize Clark as a 3rd tier park and categorize Gragg as a 4th tier park because Clark had significantly more facilities than Gragg.

Appendix E: Additional Figures

Figure E.1: Improvement priority by park sector

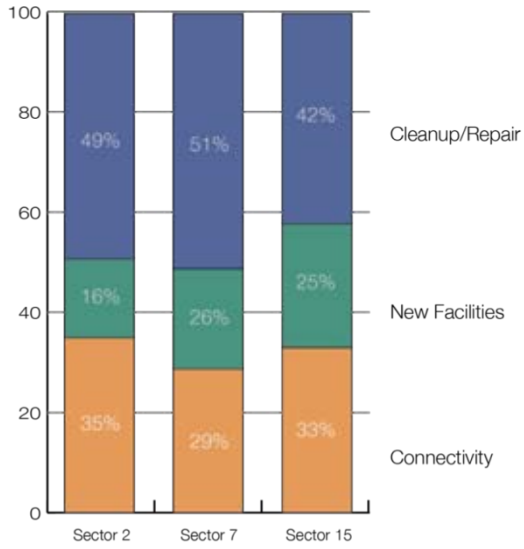


Figure E.2: Priority by gender

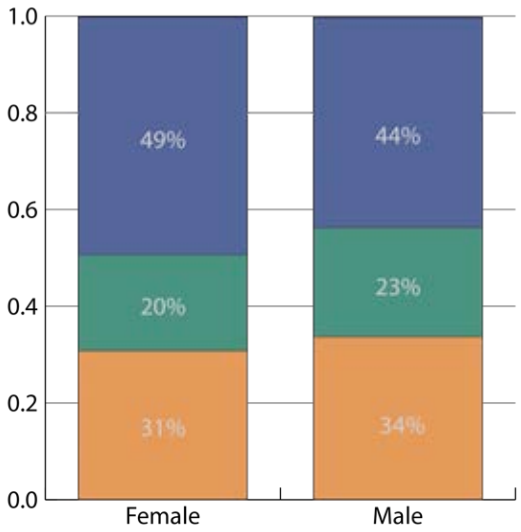


Figure E.3: Improvement priority by age

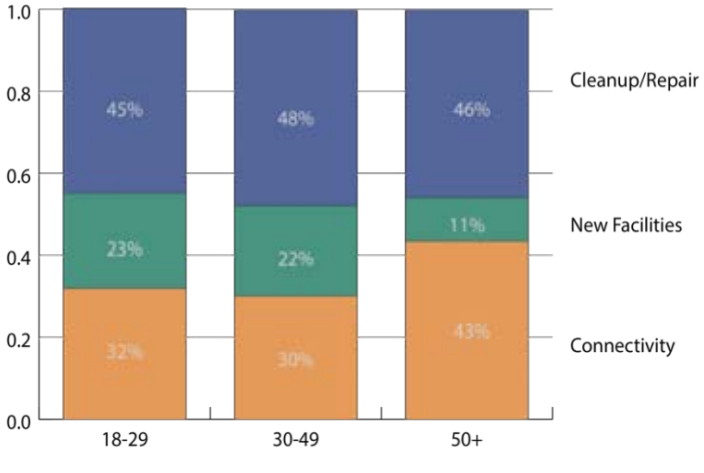
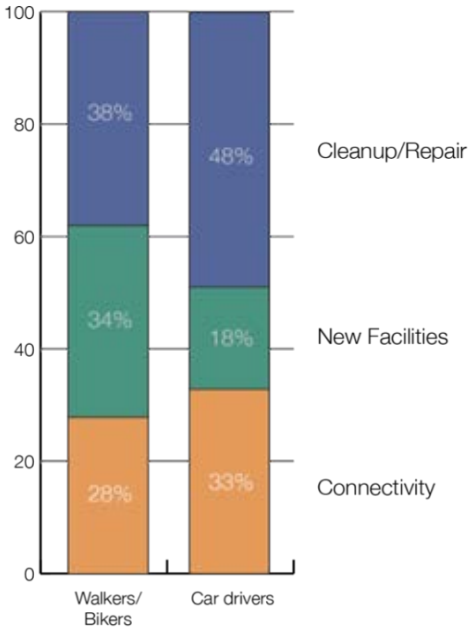


Figure E.4: Priority by mode of transportation



Appendix F: Park-specific observations and recommendations (selected parks)

Sector 2

1. Clark
    - A relatively easy and important improvement at Clark Park would be to repair the broken basketball goal; basketball players are currently only able to use half of the court. Several park users also mentioned a stray dog problem at the park, as well as a desire for the bathroom facilities to be open on the weekends.
2. Melrose
    - Park users generally seemed very pleased with the park. The playground -- and especially the sprayground area -- were very popular. The most frequent suggestion was for greater safety/security.
3. Shady Lane
    - Park users were overall very happy with the park and its recent renovations. Multiple respondents expressed the hope that the type of revitalization that took place at Shade Lane would take place at other parks. A common suggestion was to improve the safety/security of the park, including by adding more lighting.
4. Northline
    - Park users were concerned about the safety of the park and suggested that it was not a safe place to be at night. Stray dogs and people drinking were concerns of park users.

Sector 7

5. Beverly Hills
    - This park is a frequent location of soccer and baseball games. Many of the spectators of the games that were occurring during our visit expressed desire for better bathroom facilities. About a third of respondents wanted improved safety and security at the park, and several specifically requested the addition of lighting on sports fields.
6. Cloverland
    - The most popular suggestion from respondents was to clean up the trash at the park. Several park users expressed interest in there being more programming by the Parks Department.
7. Edgewood
    - Many people were unhappy with the amount of trash in the park and wanted the park be cleaned more frequently. A number of respondents were concerned about the safety/security of the park, citing illicit behavior that they had witnessed at the park.

8. F.M. Law
    - Visitors were considerably more likely than visitors at other parks to say that their greatest priority for park improvements was the development of new facilities. This could be because F.M. Law covers a large area of land, and visitors can see that there are many open areas where there are no facilities. Additionally, about a third of respondents mentioned safety and security concerns. Respondents also requested better access to bathroom facilities.
9. Sunnyside
    - Several park users believed that there was a lot of trash at the park and expressed desire for more trashcans or more frequent cleaning of the park. A number of users desired that restrooms be built at the park.

Sector 15

10. Fonde
    - Park users believed that there is a lack of trees at Fonde Park and wished for more sources of shade from trees and pavilions. Restrooms and water fountains were also a common request.
11. MacGregor
    - We interviewed many people at MacGregor Park, and our answers showed a great deal of variation. One clear trend was that many people wanted restrooms and water fountains to be built at the park. Other visitors were concerned about the safety of the park.

APPENDIX VI - Estimated Cost of Land and Amenities

November 3, 2014

Type of Amenity	Estimated Cost Guide New (FY15 Cost), November 4, 2014	Soft Costs (30%)	Total Estimated Cost Guide of New Facilites
Playground (2-5 & 5-12)	$ 390,000	$ 117,000	$ 507,000
Picnic Shelter	$ 120,000	$ 36,000	$ 156,000
Trail (1 mile)	$ 500,000	$ 150,000	$ 650,000
Multi-use Pavilion	$ 1,080,000	$ 324,000	$ 1,404,000
Multi-use Court (Half)	$ 75,000	$ 22,500	$ 97,500
Tennis Court (with lights)	200,000	60,000	$ 260,000
Sport Field (Practice)	$ 90,000	$ 27,000	$ 117,000
Dog Park	$ 600,000	$ 180,000	$ 780,000
Dog Run	$ 300,000	$ 90,000	$ 390,000
Skate Park	$ 2,400,000	$ 720,000	$ 3,120,000
Skate Pad	$ 360,000	$ 108,000	$ 468,000
Picnic Area (allowance)	$ 60,000	$ 18,000	$ 78,000
Site Furnishings (allowance)	$ 60,000	$ 18,000	$ 78,000
Landscape (allowance)	$ 120,000	$ 36,000	$ 156,000
Natural habitat (allowance)	$ 60,000	$ 18,000	$ 78,000
Open Space (allowance)	$ 60,000	$ 18,000	$ 78,000
Community Center (per SF) Avg. size: 11,500sqft	$ 330	$ 83	$ 429
Community Center Parking with lights (per bldg SF) Avg. size:12,500sqft	$ 30	$ 8	$ 39
Swimming Pool and building	$ 3,600,000	$ 900,000	$ 4,680,000
Sprayground	$ 400,000	$ 120,000	$ 520,000
Sport Field (Game)	$ 120,000	$ 30,000	$ 156,000
Sport Field Lights	$ 240,000	$ 60,000	$ 312,000
Sport Field Parking	$ 90,000	$ 22,500	$ 117,000
		Total Field	$ 585,000

Notes:

1.These amenity estimates are meant to be a guide and do not include cost of land or site specific constrain costs such as: extension of utilities to site, flood mitigation, etc.

2.The inclusion of these costs would significantly increase the base costs shown here.

3.Game fields include fences and on averge 70 parking spots.

2015 Estimated Total Cost of Land to Meet 2010 Population Needs Per Park Sector

Park Sectors	Estimated Land Value Per Sqft[1]	Acres Needed based on Current Population[2]	Estimated Total Cost of Land to meet current needs
1	3.4	102.0	$ 15,106,608
2	3.8	17.5	$ 2,896,740
3	1	6.4	$ 278,784
4	0.1	0.0	$ -
5	1.9	0.0	$ -
6	2.5	13.5	$ 1,470,150
7	1.4	45.0	$ 2,744,280
8	2.3	155.0	$ 15,529,140
9	18	221.0	$ 173,281,680
10	6.8	142.0	$ 42,061,536
11	7.7	4.4	$ 1,475,813
12	17.2	3.2	$ 2,397,542
13	52	30.0	$ 67,953,600
14	50	37.0	$ 80,586,000
15	7.9	3.6	$ 1,238,846
16	129	1.3	$ 7,305,012
17	4	55.0	$ 9,583,200
18	5.6	401.0	$ 97,818,336
19	5.1	0.0	$ -
20	1.6	35.5	$ 2,474,208
21	1.5	0.0	$ -
Total			**$ 524,201,476**

[1] Data based on 2014 HCAD values for properties minimum of 5,000 sqft in size with no structures on them from H-GAC provided 1n January 2015.

[2] Population is based on the 2010 U.S. Census. The acreage includes pocket, neighborhood and community parks including SPARK Parks, Harris County Parks and private parks.