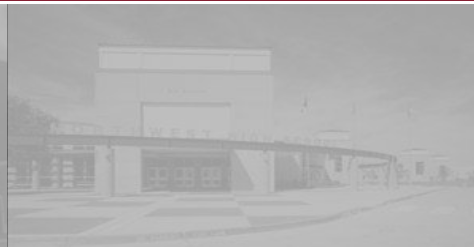
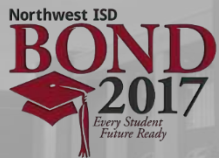


Northwest ISD Long Range Planning Committee Spring 2018 Update

May 31, 2018



Completed Projects

- ✓ District-wide Athletic Improvements
- ✓ NISD Stadium Scoreboard & Elevator
 - ✓ Beck Elementary Addition
 - ✓ Adams Middle School
 - ✓ Lizzie Curtis ES (#18)

Adams Middle School



Adams Middle School



Adams Middle School



Adams Middle School



Adams Middle School



Adams Middle School



Adams Middle School





LEO ADAMS



Lizzie Curtis Elementary School



Lizzie Curtis Elementary School



Lizzie Curtis Elementary School







The \$399 million bond package addresses facility improvements for our students in five main areas:

growth

66%

\$264,000,000

- 3 New E.S
- New Haslet E.S.
- Renovate Existing Haslet E.S.
- Beck E.S. Addition
- Existing E.S. Expansions
- M.S. Expansions
- BNHS Expansions
- EHS Expansions
- Land Acquisitions

student programs

13%

\$51,200,000

- Ag Expansion
- CTE Program Upgrades
- NHS Fine Arts & PAC Upgrades
- BNHS Fine Arts Upgrades
- M.S. Fine Arts Upgrades
- BNHS Field House
- NHS Field House
- Natatorium

technology

9%

\$37,400,000

- District-wide Infrastructure Upgrades
- Student Device Refresh
- Teacher Device Refresh
- Virtual Desktop Expansion

aging

8%

\$32,300,000

- Furniture Replacement (20+ years old)
- Roof Replacements
- Fire Alarm Replacements
- Aged MEP Equipment Replacements

safety

4%

\$14,100,000

- Entrance Security Enhancements
- Access Control Improvements
- Intrusion Alarms
- Security Camera Replacements
- Phone & Intercom System Improvements

2017 Bond Projects

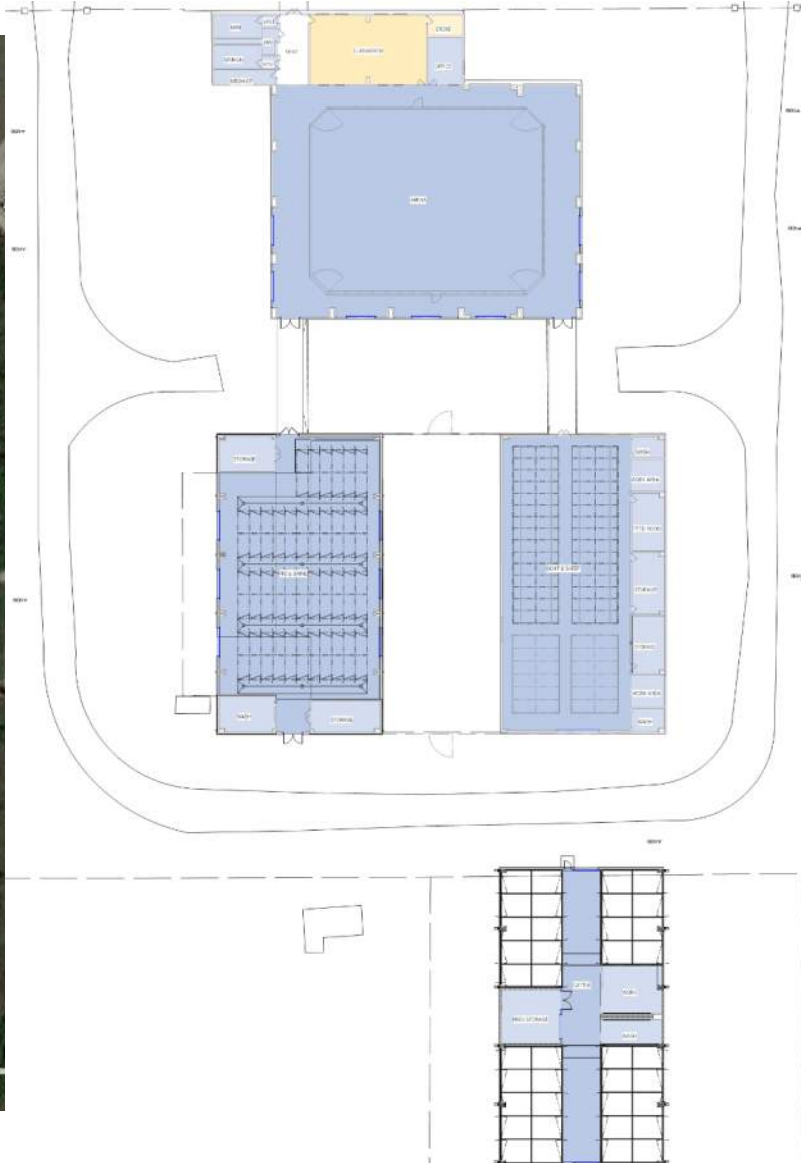
Construction Projects

- Beck Elementary School Addition
- PVES & Hatfield Partial Roofing/ HVAC & AG Barn Add & Reno
- Hughes Elementary Addition
- Safety and Security Upgrades (Reception)

Planning Projects

- Natatorium
- Byron Nelson Addition
- New Elementary Prototype
- Safety and Security Upgrades (Building Entrance)

Ag Barn Addition & Renovations



Ag Barn Addition & Renovations



New Cattle Barn Interior Rendering

Hughes 2018 Addition





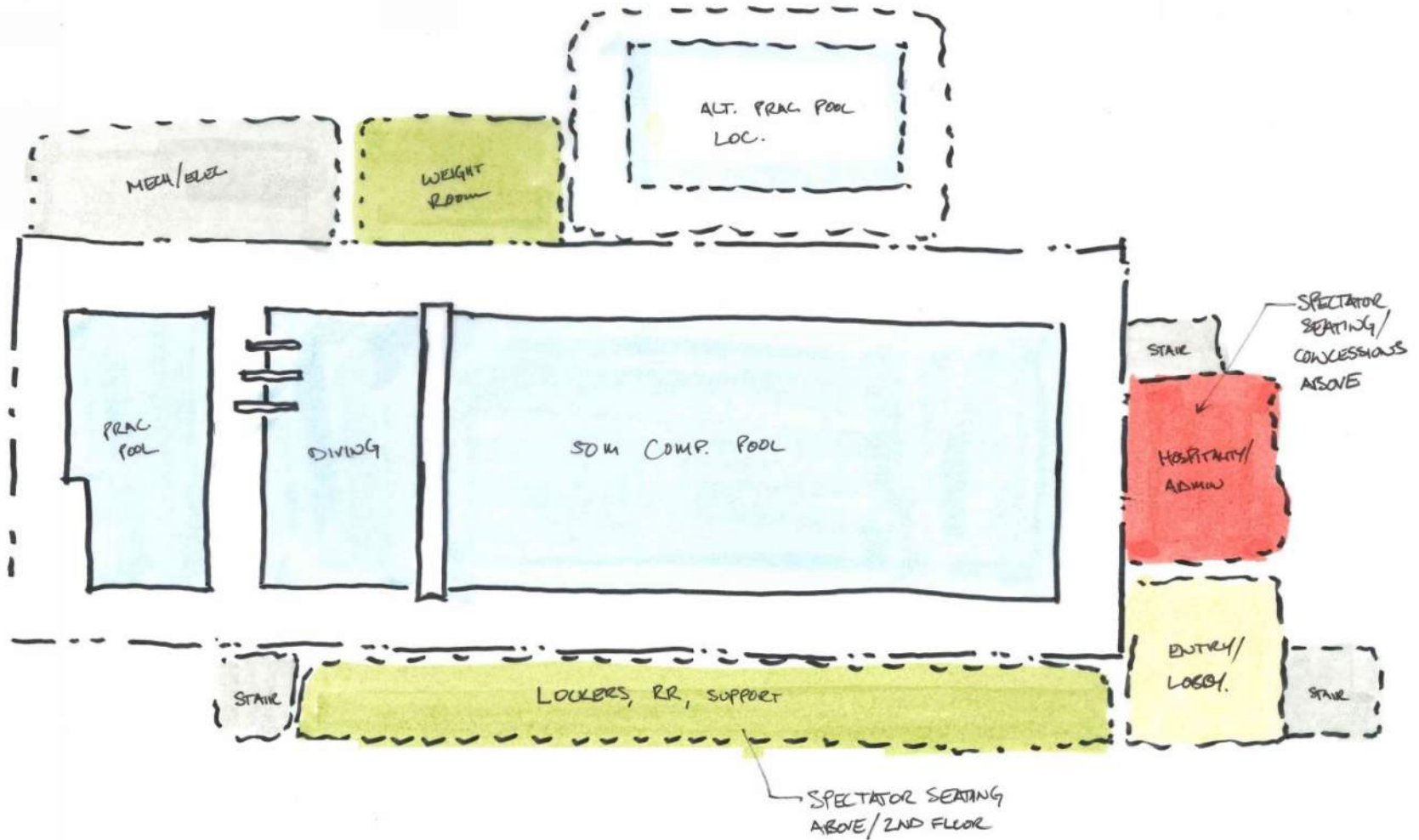
Safety and Security Upgrades



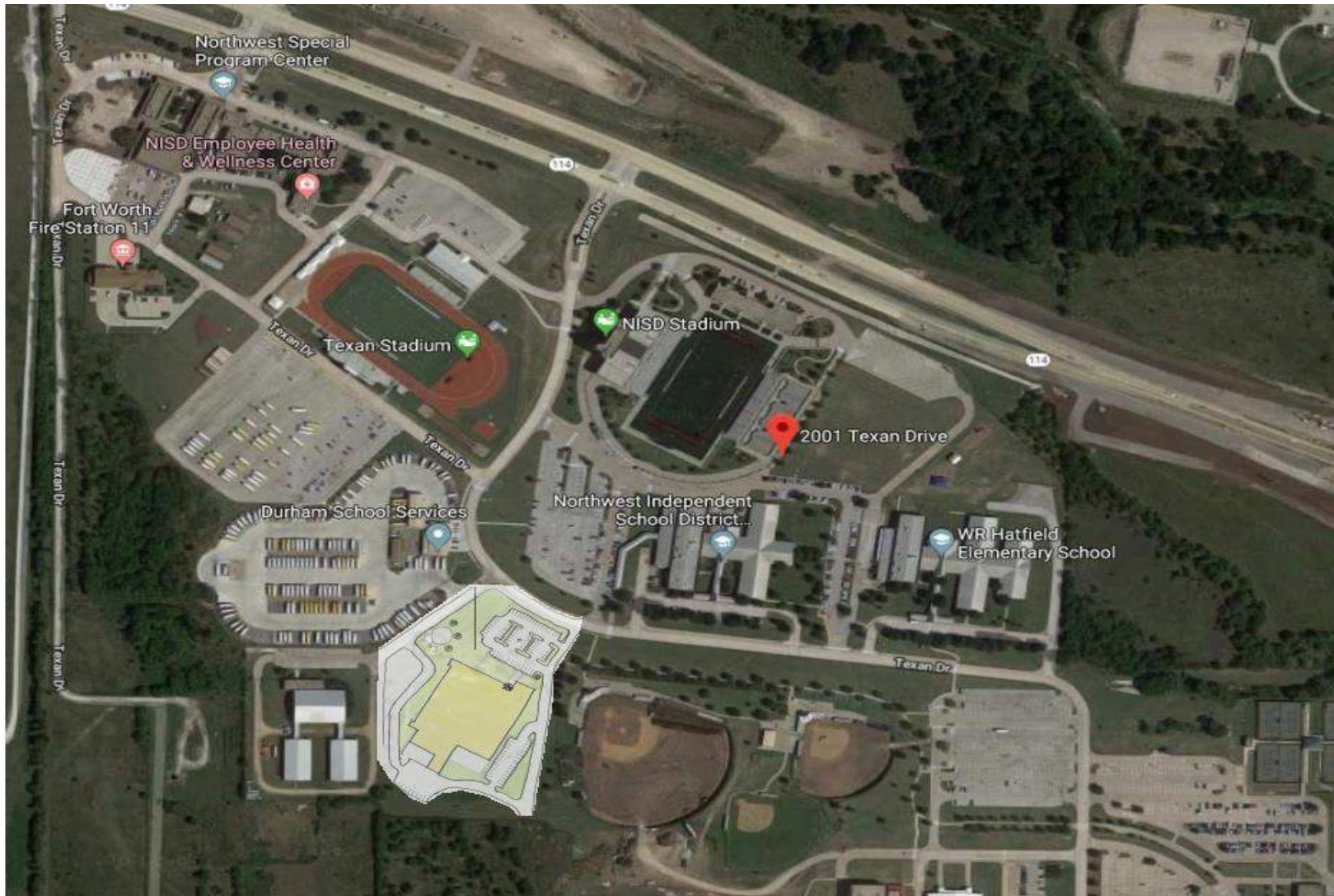
Natatorium

Northwest ISD - New Natatorium					February 5, 2018
Stadium Site					PROGRAM OF SPACES REQUIRED
	# of spaces	Area per space (S.F.)	Net Area (S.F.)	Description	
A Lobby Area & Public Use					
Lobby	1	600	600	Controlled entry required. Must pass thru reception for daily entry. Doors scheduled by NISD for free entry on meet/event days.	
Vestibule	1	125	125		
Reception	1	300	300	All users enter thru reception to be checked in.	
Facility Manager Office	1	150	150		
Public - Men's Restroom	1	275	275		
Public - Women's Restroom	1	475	475		
Hospitality/Classroom	1	700	700		
Concessions	1	300	300		
Family/Unisex Changing Rooms	2	75	150		
Unisex - Single Restrooms	2	75	150		
	Sub-total		3,225		
B Athletics					
NISD Men's Locker Room-incl RR and Showers	1	1,500	1,500	150 lockers, 2 or 3 tier layout -VERIFY, No metal lockers, provide ventilation. Provide 3 water removal machines for swimsuits	
NISD Women's Locker Room - incl RR and Showers	1	1,750	1,750	150 lockers, 2 or 3 tier layout -VERIFY, No metal lockers, provide ventilation. Provide 3 water removal machines for swimsuits	
NISD Weight Room	1	1,700	1,700	visual connection to pool area for monitoring	
Laundry	1	180	180	1 commercial washer and 1 comm. Dryer	
Training/First Aid	1	150	150	space for 2 cots/training beds and storage. Ice machine	
Custodian	1	50	50		
Coaches Office	1	480	480		
Coach Dressing - Men	1	150	150		
Coach Dressing - Female	1	150	150		
	Sub-total		6,110		
C Pool Areas					
Pool Deck	1	12,500	11,500	Pool deck area will increase if Practice Pool and Diving Pool are provided.	
Competition Pool	1	15,125	15,125	Includes diving well for 1m/3m springboards	
Practice Pool	1	2,500	2,500		
Seating - for 800	1	6,000	6,000	Aluminum tilt up bleachers on deck area.	
	Sub-total		35,125		
D Pool Support Rooms					
Life Guard Room	1	100	100		
Pool Equipment Storage	2	250	500		
Timing Equipment Storage Rm	1	200	200	separate climate (humidity) controlled HVAC	
	Sub-total		800		
E General Support Spaces					
Pool Mechanical Space	1	1,400	1,400	Pumps, water treatment, pool heaters	
Main Electrical	1	100	100		
Mechanical	1	100	100		
Chemical Storage	2	150	300	Provide direct access exterior and interior	
Riser Room	1	75	75		
MDF	1	125	125	main server room, requires an independent A/C uni	
Custodian	1	50	50		
Stairs	3	200	600		
Elevator	1	80	80		
Elevator Equipment Rm	1	75	75		
	Sub-total		2,905		

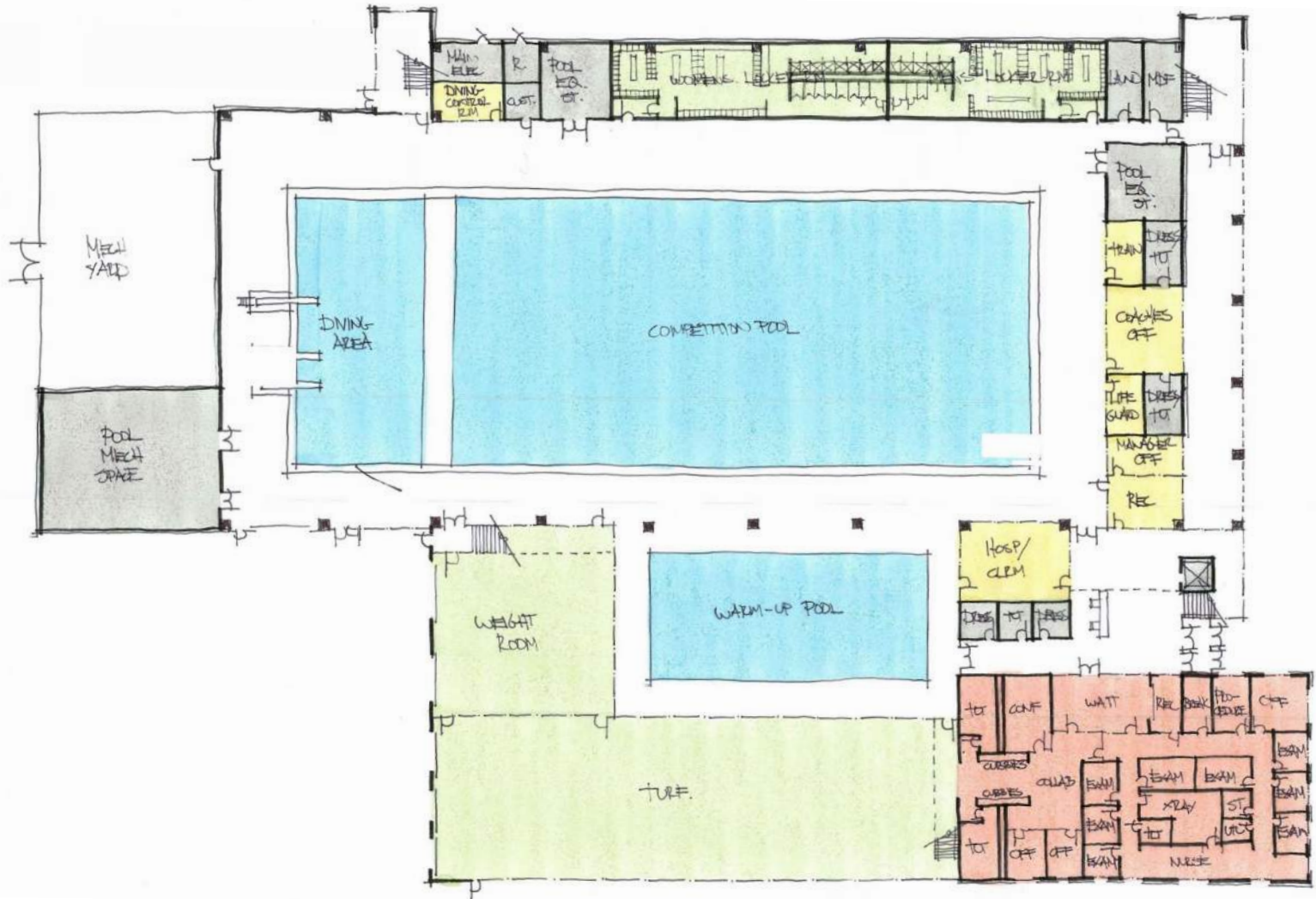
Natatorium



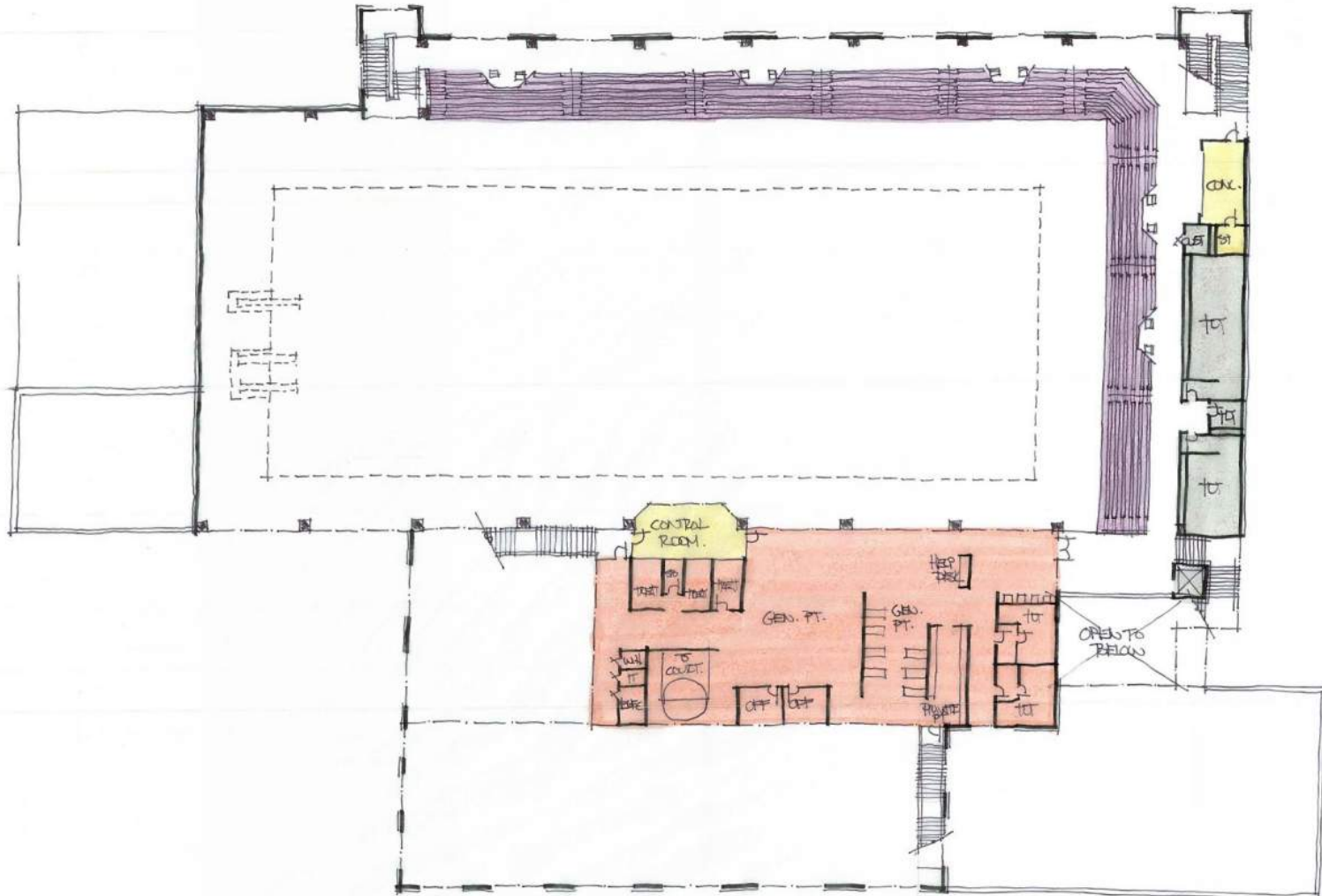
Natatorium



Natatorium



Natatorium





Byron Nelson High School

PERKINS+WILL

glenn | partners

Teamwork | Pride | Excellence
Northwest
INDEPENDENT SCHOOL DISTRICT

www.nisdtx.org

STUDENT & STAFF DESIGN WORKSHOP



SITE ANALYSIS

Geothermal Well Field Diagrammatic Layout:

- geothermal wells serving existing buildings may be disturbed by new additions.
- new roof top units to be provided to serve areas that lose geothermal service.

 Geo-thermal Well Diagrammatic Layout



LARGE GROUP ACTIVITY



LARGE GROUP ACTIVITY

heart of the campus:

- ♥ where do you think the existing heart of campus is?
if you are showing a guest the campus, what is a must see?

nodes:

- where do student typical hangout and socialize with friends before school, after school and in between class?
- where to student typically study and/or collaborate with fellow peers on individual or groups assignments | projects?
- where do student typically eat on campus?

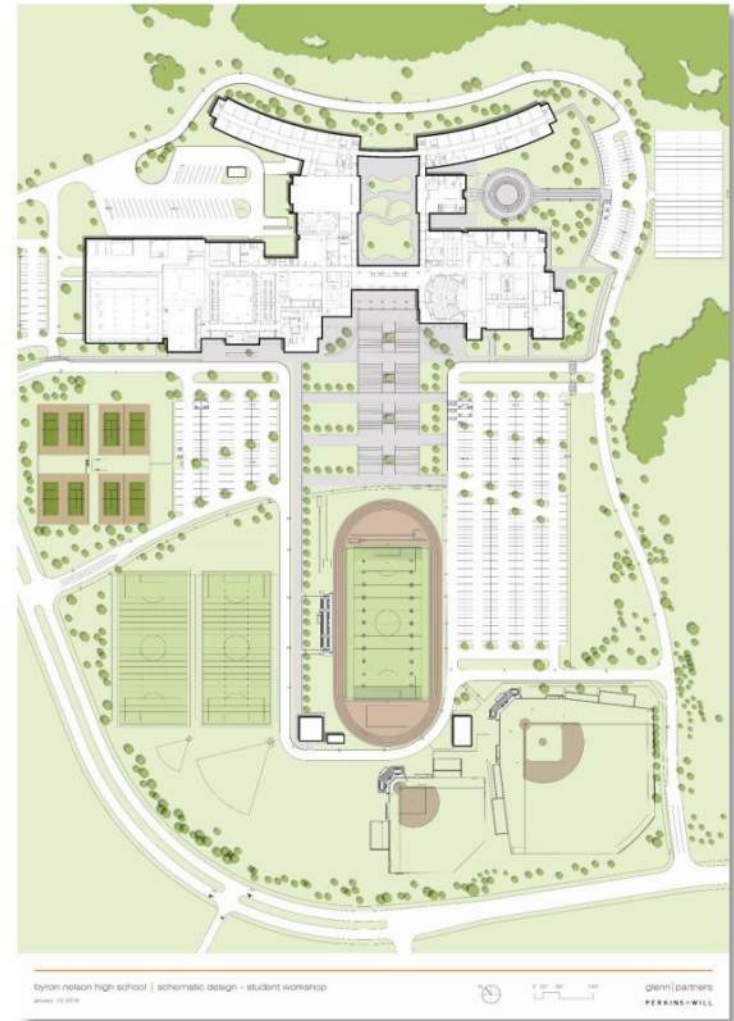
entry / exit points:

- Where do student arrive? Where do students enter the campus?

daily paths:

ex. car to classroom, classroom to cafeteria, classroom to athletics, athletics to car.

- primary path
- ■ ■ ■ ■ secondary path



tyron nelson high school | schematic design - student workshop
june 10 2014

gerrit partners
PERKINS+WILL

LARGE GROUP ACTIVITY



LARGE GROUP ACTIVITY

divide into 2 smaller teams

each group has planning blocks for the program pieces shown at the bottom of your team board.

each block represents a 1 story 15' volume

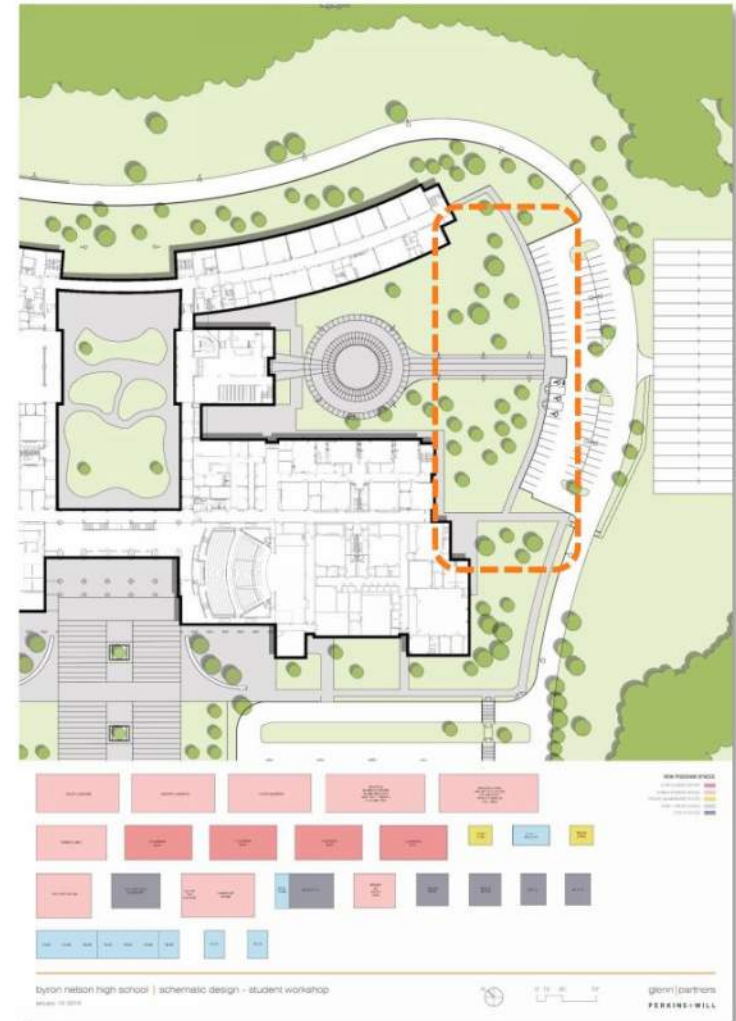
the predominant buildable area is outlined with the orange dashed line. It is possible that some program pieces could be located outside of this boundary.

work as a team to locate | stack the large program pieces placing them where you feel they should be located.

consider program adjacencies: which program pieces should be located near other program pieces.

consider which floor level: level 01? level 02? level 03?

helpful hint: It is sometimes beneficial to start by placing the large pieces first and to then fill in with the smaller pieces.



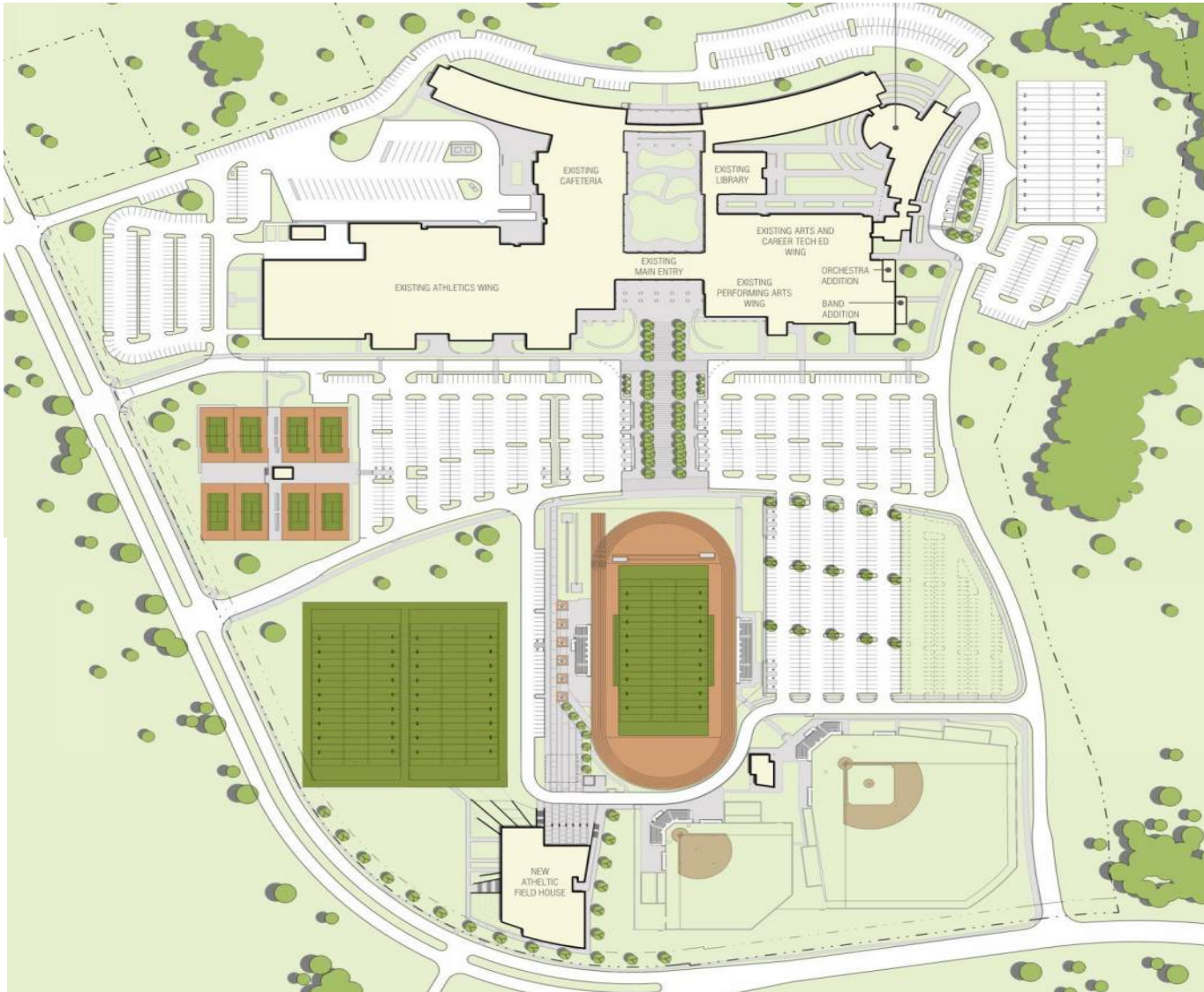
LARGE GROUP ACTIVITY



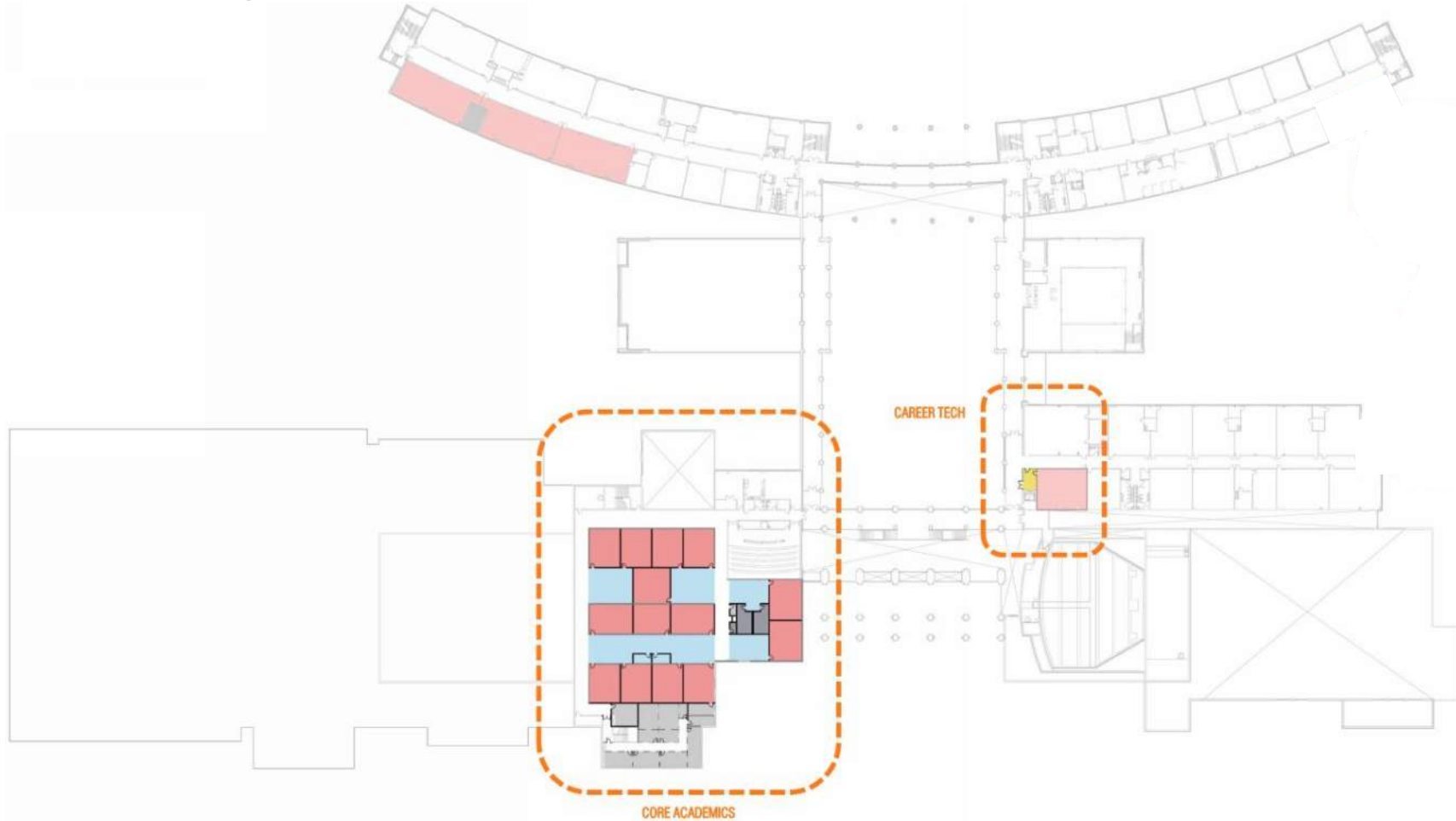
Byron Nelson Additions & Renovations



Byron Nelson Additions & Renovations



Byron Nelson Additions & Renovations



- CORE ACADEMIC SPACES
- SHARED ACADEMIC SPACES
- ADMINISTRATIVE SPACES
- ATHLETIC SPACES
- COMMUNITY SPACES
- SERVICE SPACES

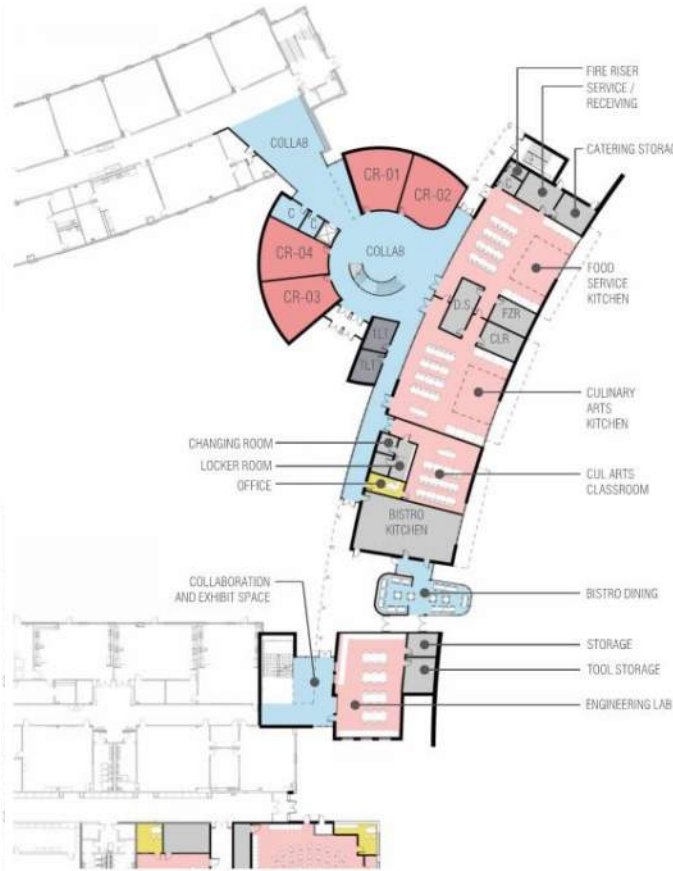
Byron Nelson Additions & Renovations



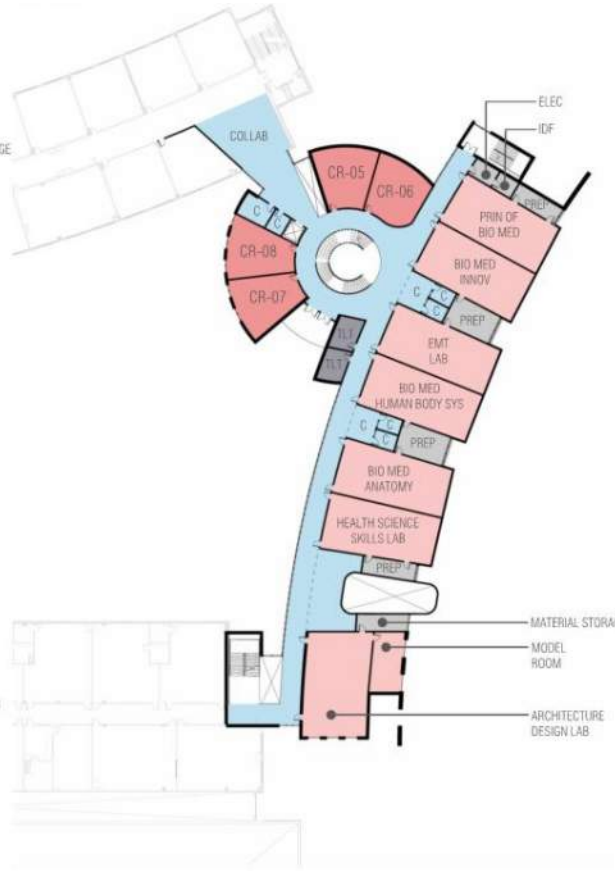
floor plan - level 01

- CORE ACADEMIC SPACES
- SHARED ACADEMIC SPACES
- ADMINISTRATIVE SPACES
- ATHLETIC SPACES
- COMMUNITY SPACES
- SERVICE SPACES

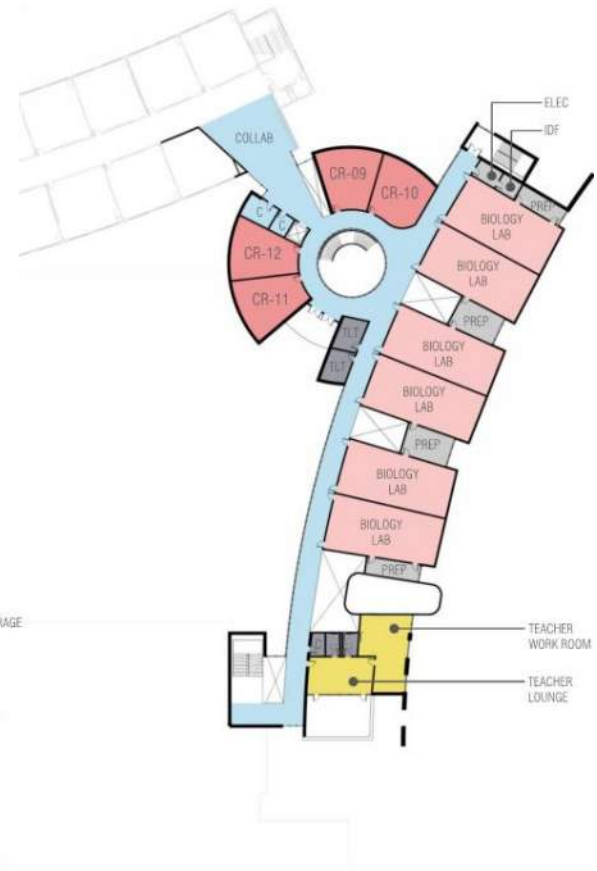
Byron Nelson Additions & Renovations



floor plan - level 01



floor plan - level 02



floor plan - level 03

- CORE ACADEMIC SPACES
- SHARED ACADEMIC SPACES
- ADMINISTRATIVE SPACES
- ATHLETIC SPACES
- COMMUNITY SPACES
- SERVICE SPACES

Byron Nelson Additions & Renovations



Byron Nelson Additions & Renovations

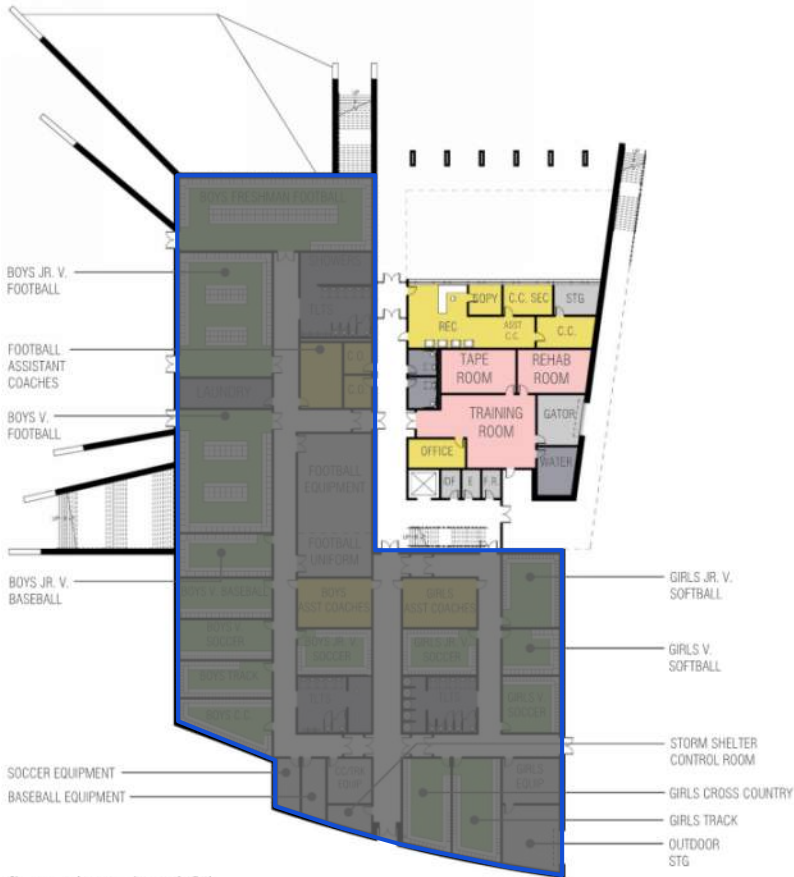


athletic training tool design concept

storm shelter parti diagram

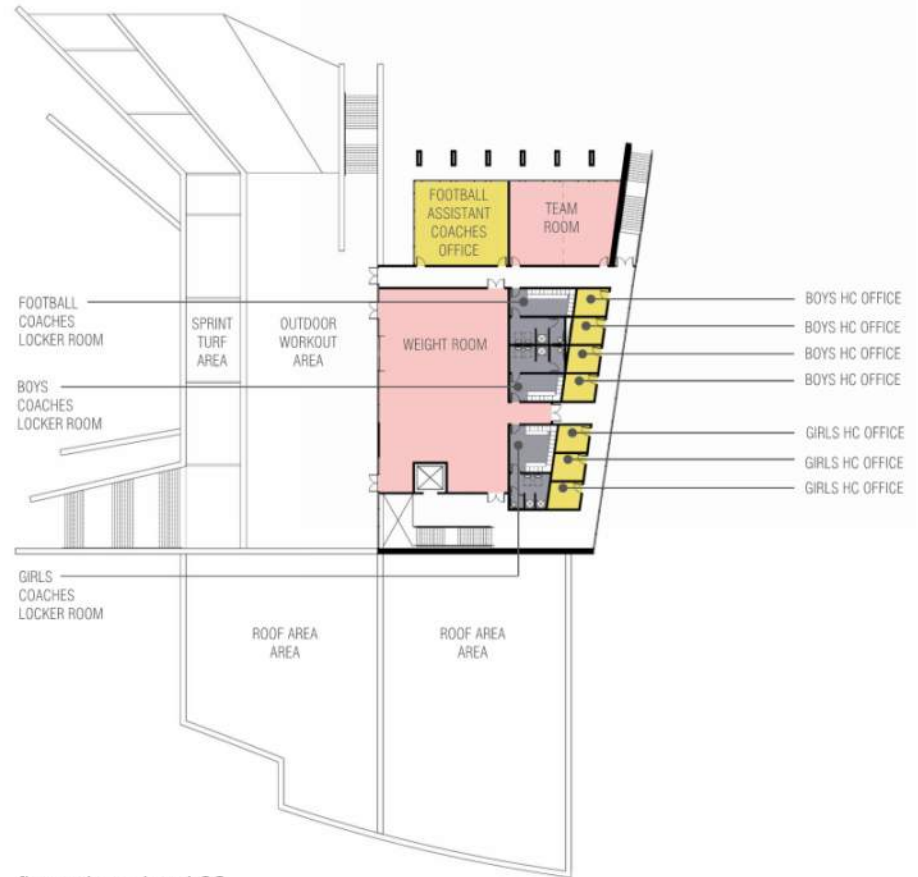


Byron Nelson Additions & Renovations



floor plan - level 01

- CORE ACADEMIC SPACES
- SHARED ACADEMIC SPACES
- ADMINISTRATIVE SPACES
- ATHLETIC SPACES
- COMMUNITY SPACES
- SERVICE SPACES



floor plan - level 02

Byron Nelson Additions & Renovations





New Elementary Prototype

Huckabee

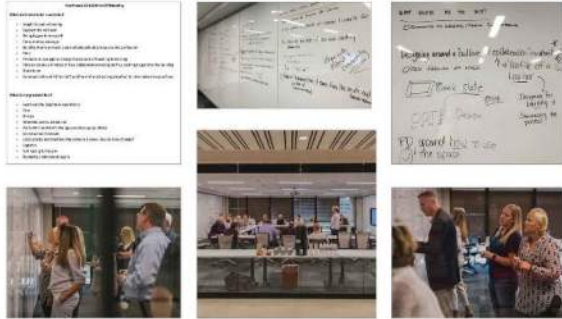
NORTHWEST I.S.D. NEW ELEMENTARY SCHOOL #19



www.nisdtx.org

New Elementary School Design

NISD Design Team Kick-Off Meeting



Huckabee Team Visits Harvest (Project Site)



Central Texas School Tours (NISD Design Team)



August 11 2017

6 ES STUDENTS (GRADES 1-3) WERE **INTERVIEWED ONE-ON-ONE**

9 HS STEM STUDENTS WERE INTERVIEWED 11 ES STUDENTS PRESENTED "SCHOOL OF FUTURE" PROJECTS

50 TEACHERS/PRINCIPALS/ADMINISTRATORS **WERE ENGAGED** (NOT INCLUDING NISD DESIGN TEAM)

111 4TH AND 5TH GRADERS WERE SURVEYED 12 MEMBERS OF NISD DESIGN TEAM

137 NISD STUDENTS WERE ENGAGED IN SOME WAY

128 ES STUDENTS WERE ENGAGED IN SOME WAY

17 DEPARTMENT MEETINGS WERE CONDUCTED



- Department Meetings**
- Instructional Technology
 - Fine Arts
 - Clinic
 - Physical Education
 - Food Services
 - Custodial
 - Campus Admin

- Department Meetings**
- SPED
 - Kindergarten
 - 1st Grade
 - 3rd Grade
 - 4th Grade
 - 5th Grade
 - Library



- ENCOURAGING THEMES**
- Modular walls and various collaboration spaces but completed.
 - Variety of spaces for social groups.
 - Light bright room.
 - WALLS Appeal for network & moving.
 - Meeting table and adjustable furniture options.
 - Open-plan.
 - Outdoor meeting spaces (covered and uncovered).

New Elementary School Design

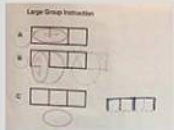
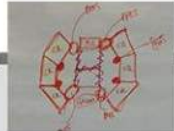
Design Strategy Charrette #3 (NISD Design Team)

- Charrette #3 Accomplishments:**
- Nail-down official names for instructional areas (book, "collaborative" hubs, community hub, hub, academy etc.) and for library-grade center, learning commons, etc.)
 - Identify where repetitive functions from charrette #2 occur (every classroom vs. some classrooms vs. every main instructional area vs. library vs. cafeteria, etc.)
 - Confirm all functions/spaces of each main instructional area (book, "collaborative," etc.)
 - Walk through ideal layout of each main instructional area (book, "collaborative," etc.)
 - Discuss mobility of walls within main instructional areas (book, "collaborative," etc.) based on large group instruction needs
 - Identify confirm all major building adjacencies



LEARNING COMMUNITY

- 8 CR in 200's
- cabal space
- 2-3 quiet spaces
- 2-3 presentation monitors
- gallery work display
- PLC?



Design Strategy Charrette #3 (NISD Design Team)

- Charrette #4 Accomplishments:**
- Re-evaluation major building adjacencies and lingering questions
 - Discuss Learning Commons in more detail—Confirm functions and adjacencies
 - Discuss Maker Spaces in more detail—How are "messy areas" in each Learning Community different from the "Maker Space" in the Learning Commons?
 - Discuss Campus Brand Environmental Graphics



Floorplan Massing/Site Charrette (NISD Design Team)



2-Day Schematic Design Charrette (NISD Design Team)



Program of Spaces & Design Brief Approval

Room	Area	Program	Notes
101	100	Office	
102	100	Office	
103	100	Office	
104	100	Office	
105	100	Office	
106	100	Office	
107	100	Office	
108	100	Office	
109	100	Office	
110	100	Office	
111	100	Office	
112	100	Office	
113	100	Office	
114	100	Office	
115	100	Office	
116	100	Office	
117	100	Office	
118	100	Office	
119	100	Office	
120	100	Office	

Northwest ES #19- Macro Adjacencies

Learning Commons

Maker Space

Library

Community Hub

Academy

Book Hub

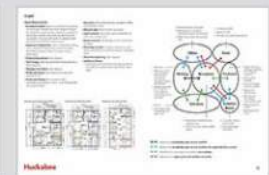
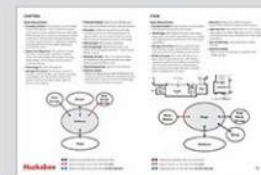
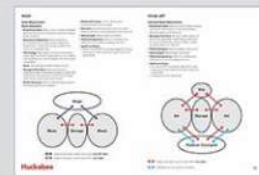
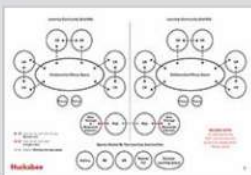
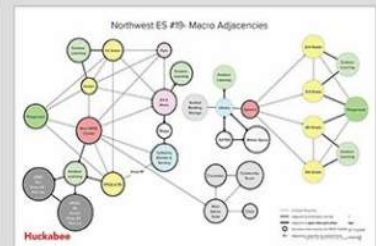
Collaborative Hub

Quiet Space

Presentation Monitor

Gallery Work Display

PLC

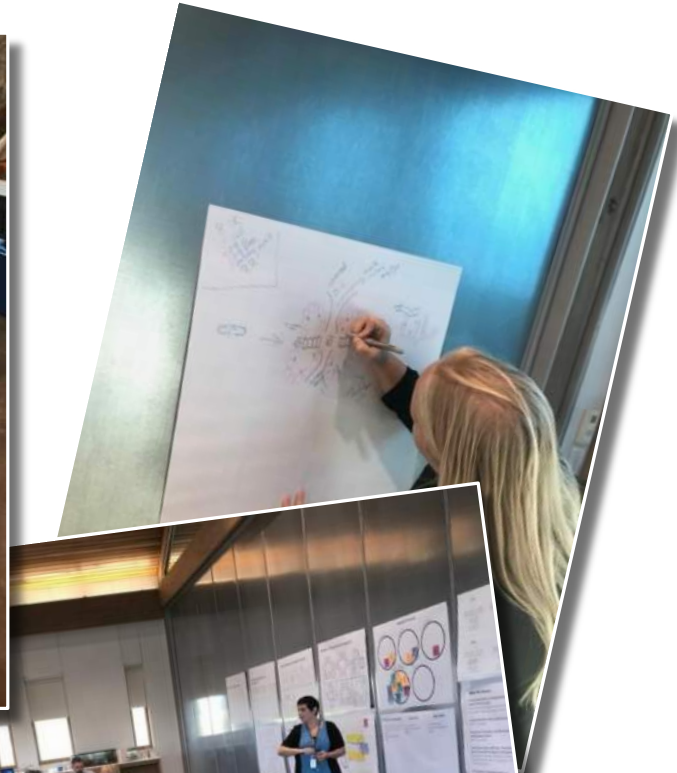
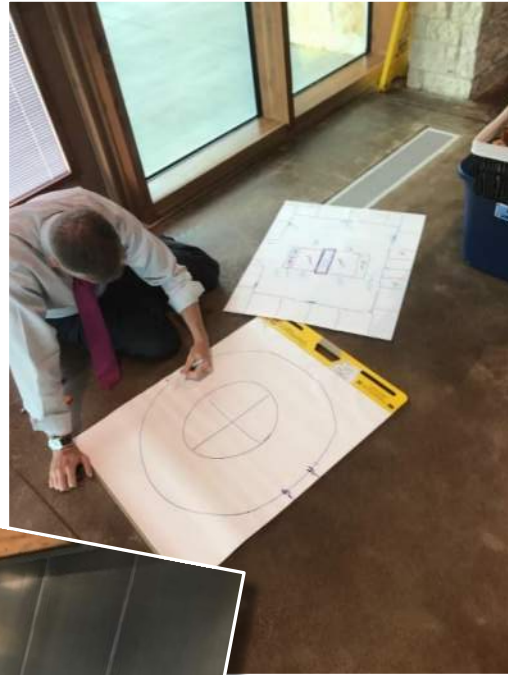


November 13 2017

Huckabee

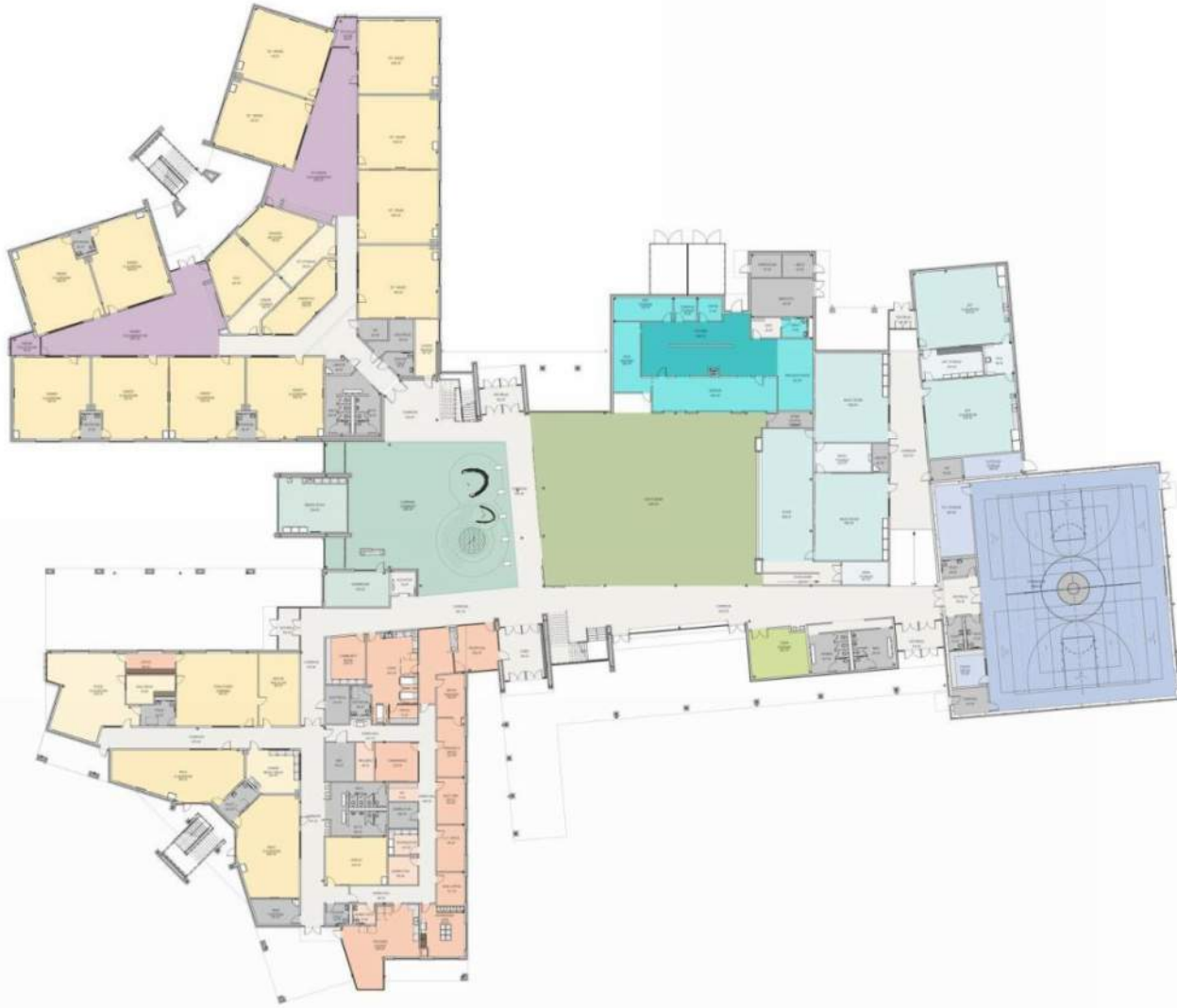
www.nisdtx.org

New Elementary School Design



Elementary School #19

COLOR LEGEND	
Yellow	Academic Space
Light Yellow	Academic Support
Orange	Administration
Light Orange	Administration Support
Blue	Athletic Space
Light Blue	Athletic Support
Grey	Circulation
Purple	Collaboration/Focus
Green	Dining
Light Green	Dining Support
Teal	Fine Arts
Light Teal	Fine Arts Support
Dark Teal	Kitchen
Light Teal	Kitchen Support
Light Green	Library
Light Green	Library Support
Grey	Support Space

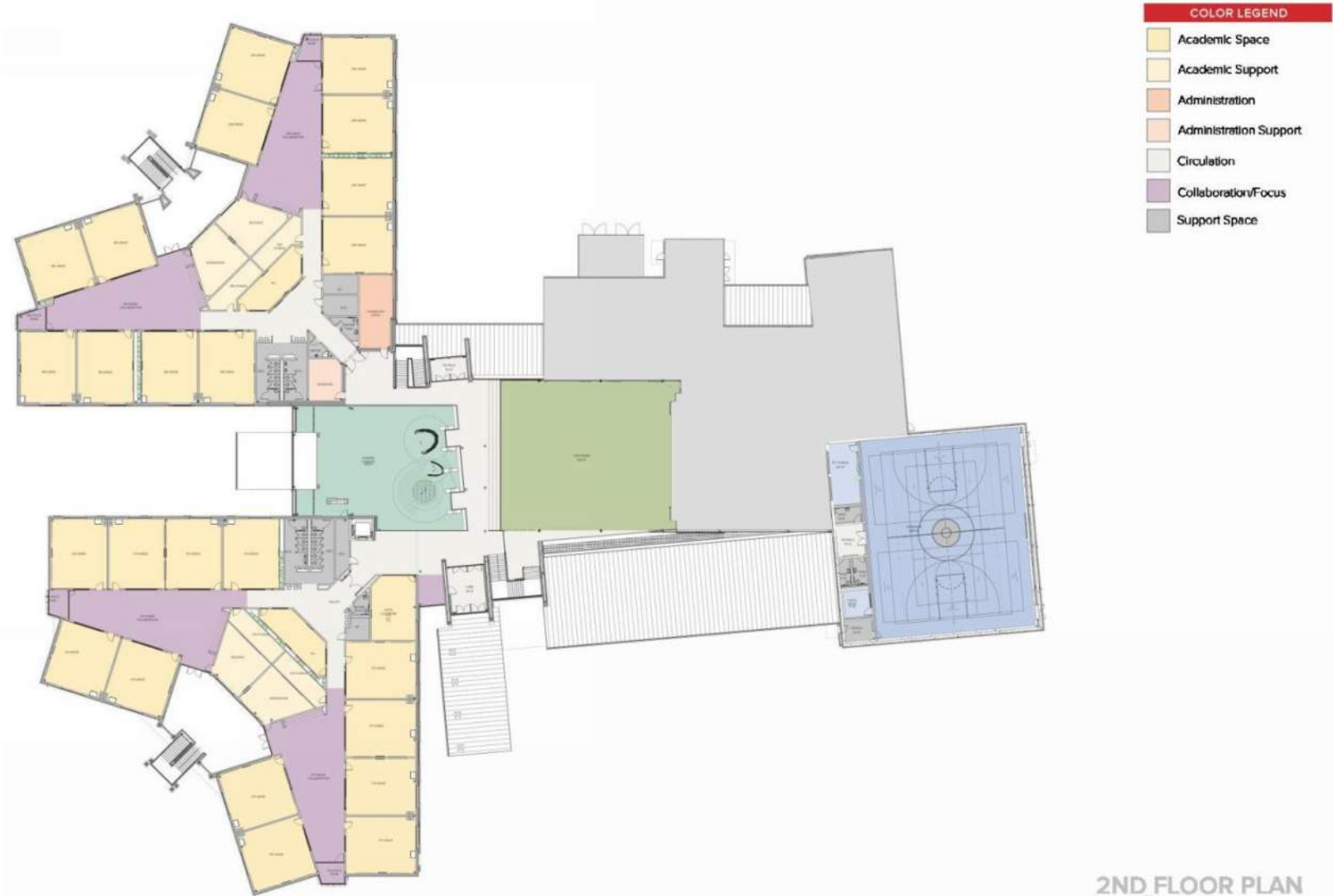


Huckabee

NORTHWEST I.S.D. NEW ELEMENTARY SCHOOL #19

1ST FLOOR PLAN
Northwest
INDEPENDENT SCHOOL DISTRICT

Elementary School #19



Huckabee

NORTHWEST I.S.D. NEW ELEMENTARY SCHOOL #19

2ND FLOOR PLAN

Northwest
INDEPENDENT SCHOOL DISTRICT



Elementary School #19



Huckabee

NORTHWEST I.S.D. NEW ELEMENTARY SCHOOL #19

Teamwork | Pride | Excellence
Northwest
INDEPENDENT SCHOOL DISTRICT

www.nisdtx.org

Lance Thompson Elementary School



EXTERIOR ENTRY

TECHNOLOGY | INNOVATION | EXCELLENCE
Northwest
INDEPENDENT SCHOOL DISTRICT

www.nisdtx.org

Lance Thompson Elementary School



<https://www.insitevr.com/view/HylZDjCQnM>

Lance Thompson Elementary School



EXTERIOR COURTYARD

Teamwork | Pride | Excellence
Northwest
INDEPENDENT SCHOOL DISTRICT

www.nisdtx.org

Economic Conditions – DFW Area (March 2018)

3.4%

124,514 new jobs
National rate 1.2%



Job Growth

Unemployment Rate



U.S. 4.1%
Texas 4.1%
DFW MSA 3.7%
Fort Worth 4.0%

-0.2%

33,516

3,298 more starts than 1Q17



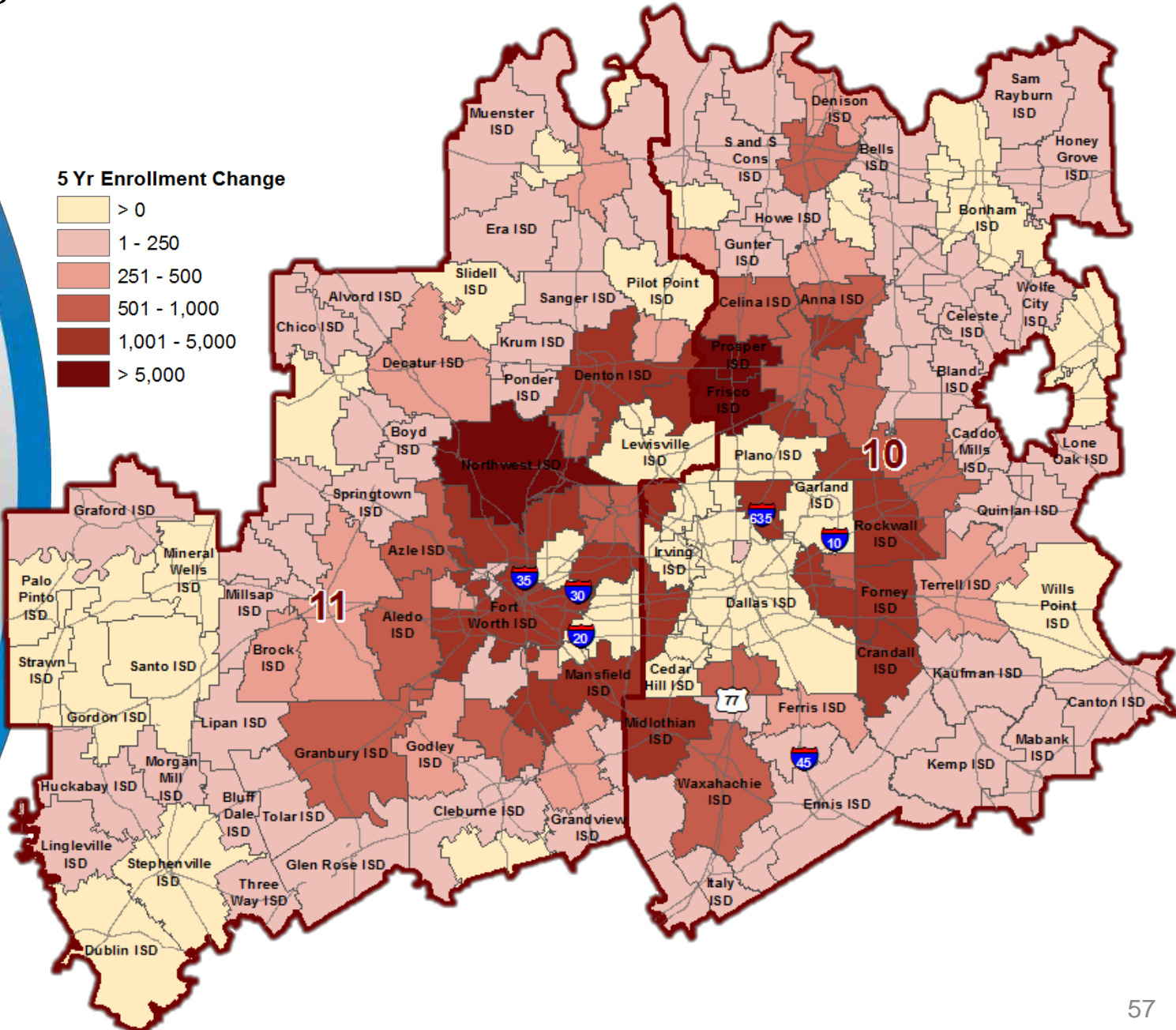
Annual Home Starts



Region 10 & 11 Enrollment Trends

5 Yr Enrollment Change

- > 0
- 1 - 250
- 251 - 500
- 501 - 1,000
- 1,001 - 5,000
- > 5,000





Region 10 & 11 Enrollment Trends

Region 10

Rank	District	2012/13 Enrollment	2017/18 Enrollment	5-YEAR Change (12/13-17/18)	5-YEAR PCT Growth
1	Frisco ISD	42,703	58,450	15,747	36.9%
2	Prosper ISD	5,502	12,133	6,631	120.5%
3	Grand Prairie ISD	26,928	29,362	2,434	9.0%
4	Wylie ISD (Collin)	13,425	15,769	2,344	17.5%
5	Mesquite ISD	39,128	41,022	1,894	4.8%
6	Rockwall ISD	14,483	16,295	1,812	12.5%
7	Coppell ISD	10,997	12,625	1,628	14.8%
8	Forney ISD	8,571	10,196	1,625	19.0%
9	Midlothian ISD	7,560	8,872	1,312	17.4%
10	Allen ISD	19,891	21,159	1,268	6.4%
11	Richardson ISD	38,046	39,314	1,268	3.3%
12	Melissa ISD	1,695	2,792	1,097	64.7%
13	Crandall ISD	3,030	4,056	1,026	33.9%
14	Princeton ISD	3,435	4,381	946	27.5%
15	Anna ISD	2,526	3,459	933	36.9%
16	Waxahachie ISD	7,652	8,517	865	11.3%
17	Royse City ISD	4,905	5,739	834	17.0%
18	Lancaster ISD	6,538	7,371	833	12.7%
19	De Soto ISD	8,900	9,657	757	8.5%
20	Community ISD	1,635	2,262	627	38.3%

Region 11

Rank	DISTRICT	2012/13 Enrollment	2017/18 Enrollment	5-YEAR CHANGE (12/13-17/18)	5-YEAR PCT Growth
1	Northwest ISD	17,813	23,141	5,328	29.9%
2	Denton ISD	25,782	29,420	3,638	14.1%
3	Fort Worth ISD	83,491	86,234	2,743	3.3%
4	Mansfield ISD	32,883	35,054	2,171	6.6%
5	Burleson ISD	10,581	12,221	1,640	15.5%
6	Hurst-Euless-Bedford ISD	21,819	23,429	1,610	7.4%
7	Eagle Mt-Saginaw ISD	17,731	19,317	1,586	8.9%
8	Keller ISD	33,365	34,937	1,572	4.7%
9	Little Elm ISD	6,399	7,526	1,127	17.6%
10	Aledo ISD	4,729	5,718	989	20.9%
11	Argyle ISD	1,907	2,716	809	42.4%
12	Carroll ISD	7,711	8,360	649	8.4%
13	Joshua ISD	4,906	5,528	622	12.7%
14	Granbury ISD	6,536	7,143	607	9.3%
15	Grapevine-Colleyville ISD	13,386	13,975	589	4.4%
16	Azle ISD	5,930	6,496	566	9.5%
17	Aubrey ISD	2,006	2,495	489	24.4%
18	Weatherford ISD	7,635	8,116	481	6.3%
19	Everman ISD	5,401	5,838	437	8.1%
20	Brock ISD	1,002	1,373	371	37.0%



DFW New Home Ranking Report

ISD Ranked by Annual Closings – 1Q18

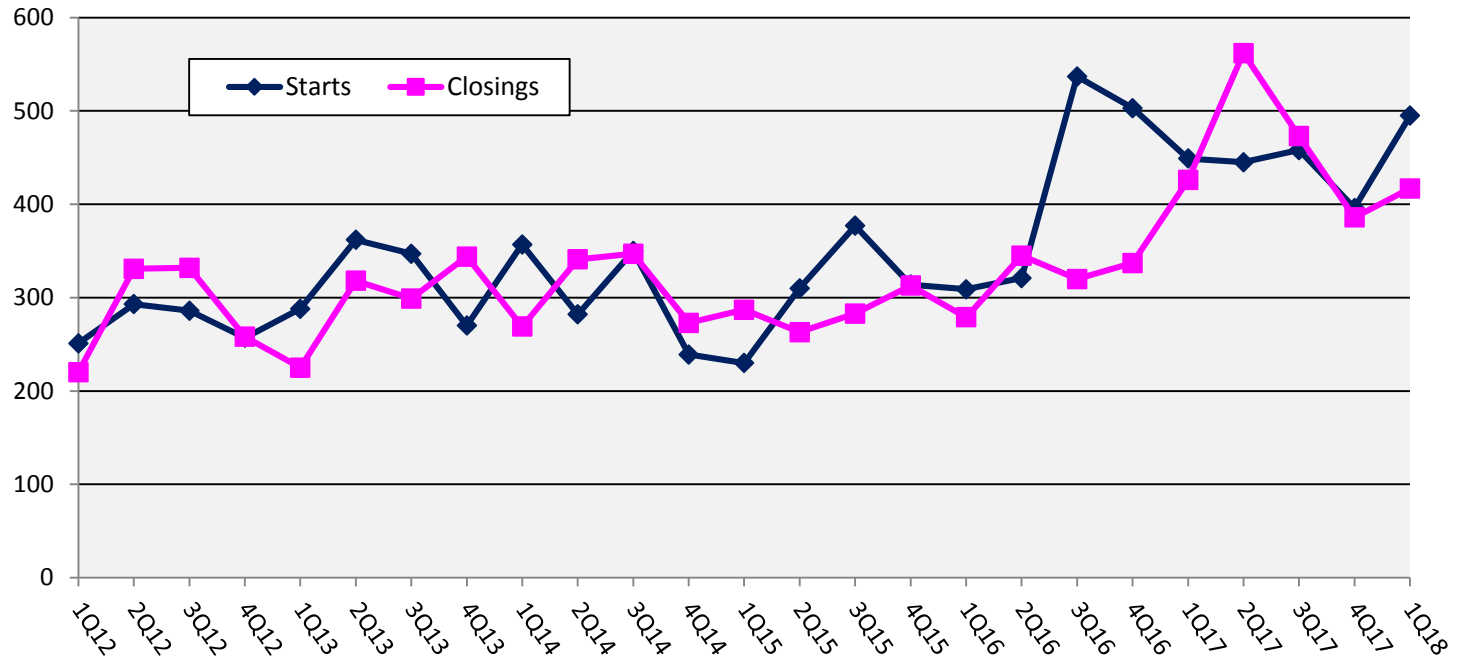
Rank	District Name	Annual Starts	Annual Closings	VDL	Future
1	Prosper ISD	2,864	2,716	6,166	24,116
2	Frisco ISD	2,455	2,620	4,894	4,938
3	Denton ISD	2,156	2,045	3,130	19,458
4	Northwest ISD*	1,816	1,822	1,766	31,939
5	Dallas ISD	1,895	1,744	1,850	7,374
6	Little Elm ISD	1,568	1,413	1,790	2,581
7	Eagle Mt.-Saginaw ISD	1,390	1,064	1,539	19,079
8	Lewisville ISD	1,107	1,039	2,329	3,982
9	Forney ISD	1,234	948	1,678	14,207
10	Rockwall ISD	903	914	1,820	8,406
11	Wylie ISD	922	809	1,006	4,150
12	Keller ISD	580	737	759	1,686
13	McKinney ISD	636	718	1,609	6,425
14	Allen ISD	703	703	1,371	1,219
15	Mansfield ISD	676	658	1,086	6,689
16	Midlothian ISD	717	635	1,280	19,666
17	Fort Worth ISD	582	612	833	4,966
18	Crowley ISD	825	595	911	12,430
19	Garland ISD	348	538	319	4,080
20	Waxahachie ISD	553	514	845	9,823

*Adjusted based on additional research by Templeton Demographics staff



New Housing Activity

Northwest ISD



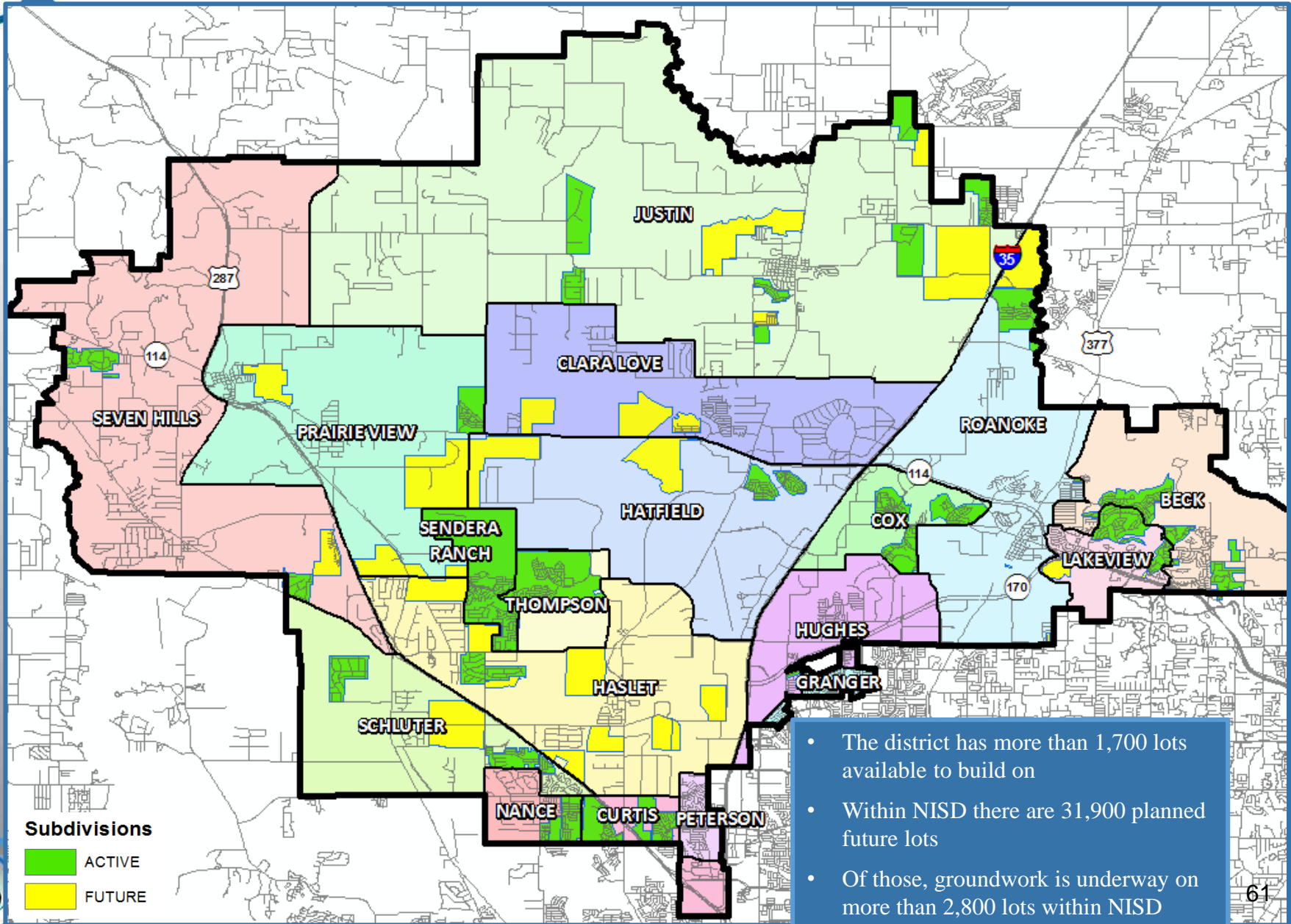
Starts	2012	2013	2014	2015	2016	2017	2018
1Q	251	288	357	230	309	449	495
2Q	293	362	282	310	321	445	
3Q	286	347	350	377	537	458	
4Q	257	270	239	314	503	396	
Total	1,087	1,267	1,228	1,231	1,670	1,748	495

Closings	2012	2013	2014	2015	2016	2017	2018
1Q	220	225	269	287	279	426	417
2Q	331	318	341	263	345	562	
3Q	332	299	347	283	320	473	
4Q	258	344	273	313	337	386	
Total	1,141	1,186	1,230	1,146	1,281	1,847	417

- Northwest ISD had the most 1Q new home starts in more than 10 years
- New home closings slowed slightly as builders started new inventory
- New home inventory is at a healthy 6.2 month's supply



District Housing Overview



- The district has more than 1,700 lots available to build on
- Within NISD there are 31,900 planned future lots
- Of those, groundwork is underway on more than 2,800 lots within NISD



Discussion & Questions