

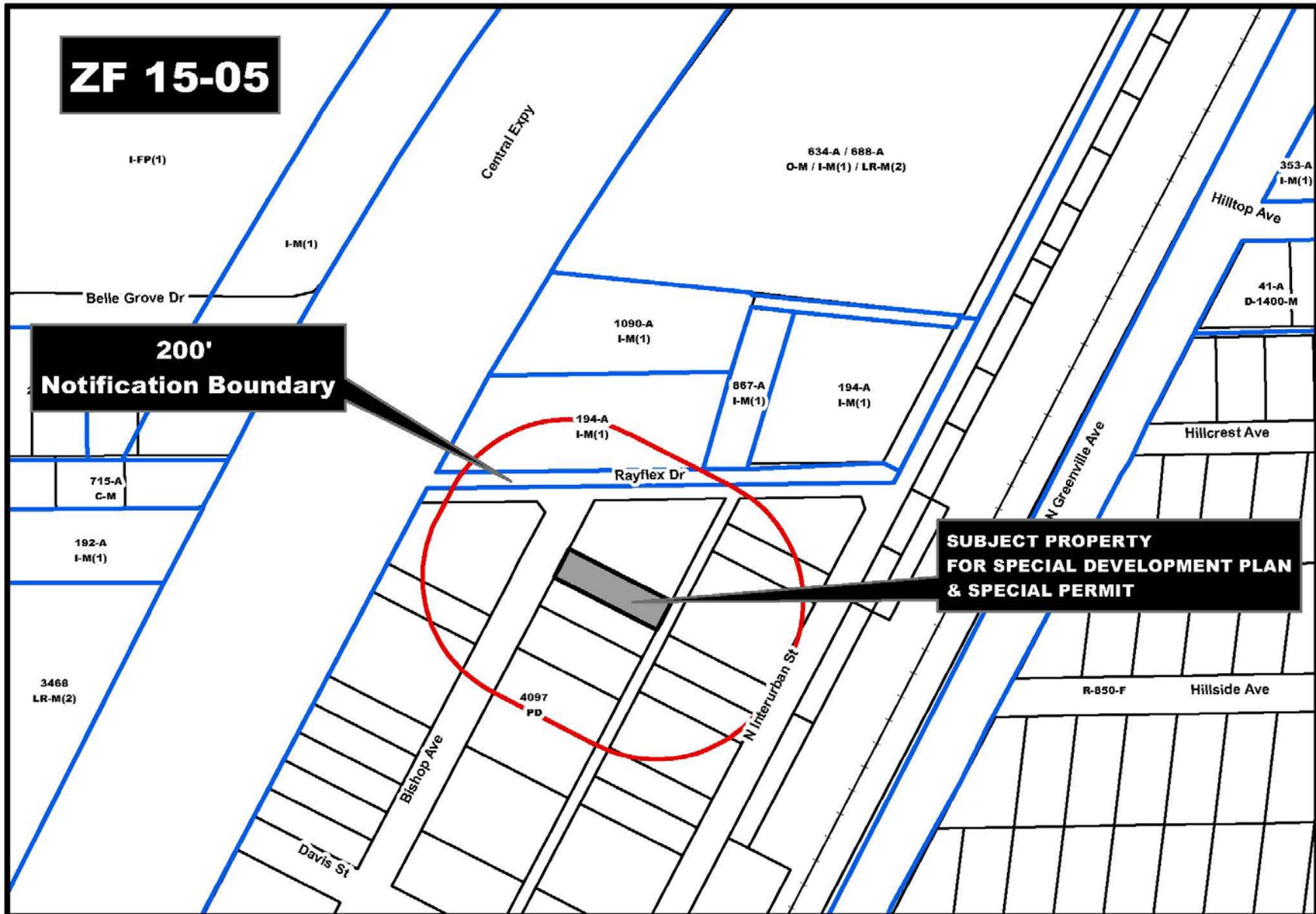
City Council Work Session Handouts

April 27, 2015

- I. Review and Discuss Zoning File 15-05
- II. Review and Discuss Zoning File 15-06
- III. Review and Discuss Variance 15-03 and 15-04
- IV. Review and Discuss Variance 15-05, 15-6, and 15-07
- V. Review and Discuss Variance 15-08 and 15-09
- VI. Review and Discuss the Drainage Capital Needs for Consideration in a Future Bond Program
- VII. Review and Discuss the Water Conservation Plan

Agenda Item 6
ZONING FILE 15-05
Special Permit (Food Truck Park)

ZF 15-05



ZF 15-05 Notification Map

Updated By: shacklett, Update Date: March 23, 2015
File: DSMMapping\Cases\Z\2015\ZF1505\ZF1505 notification.mxd

This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.



ZF 15-05



**SUBJECT PROPERTY
FOR SPECIAL DEVELOPMENT PLAN
& SPECIAL PERMIT**

ZF 15-05 Aerial Map

Updated By: shacklett, Update Date: March 23, 2015
File: DSMMapping\Cases\Z\2015\ZF 1505\ZF 1505_ortho.mxd

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Rayflex Dr

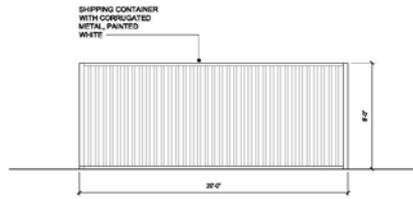
Bishop Ave

**Subject
Property**

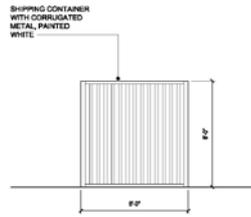
Alley

Oblique Aerial
Looking West



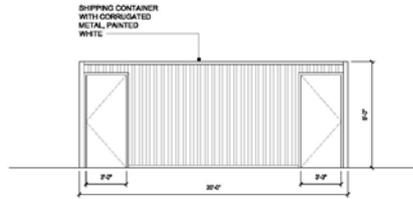


SOUTH ELEVATION

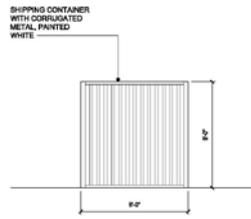


EAST ELEVATION

* NOTE:
ALL WALLS AND CEILINGS SHALL BE
1-HOUR FIRE-RATED AND ALL DOORS
SHALL BE 45 MINUTE FIRE-RATED.



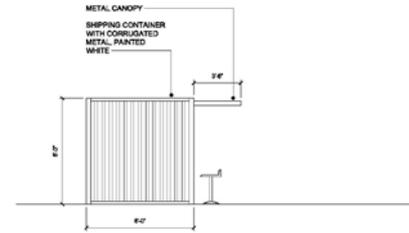
NORTH ELEVATION



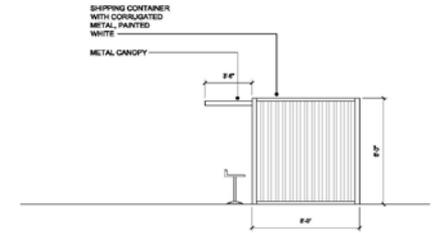
WEST ELEVATION

SCALE: 1/4" = 1'-0"

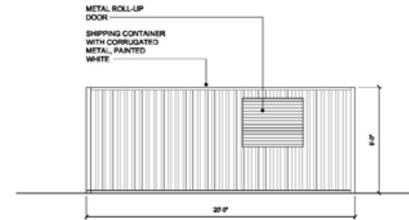
SHIPPING CONTAINER RESTROOM ELEVATIONS



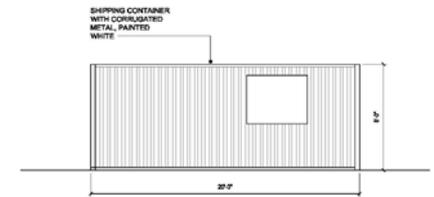
NORTH ELEVATION



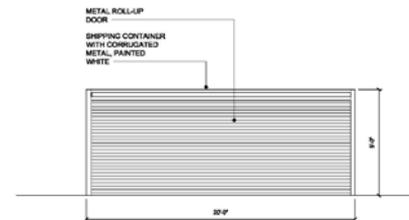
SOUTH ELEVATION



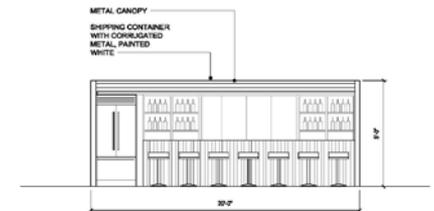
EAST ELEVATION WITH ROLL-UP DOOR CLOSED



EAST ELEVATION WITH ROLL-UP DOOR OPEN



WEST ELEVATION WITH ROLL-UP DOOR CLOSED



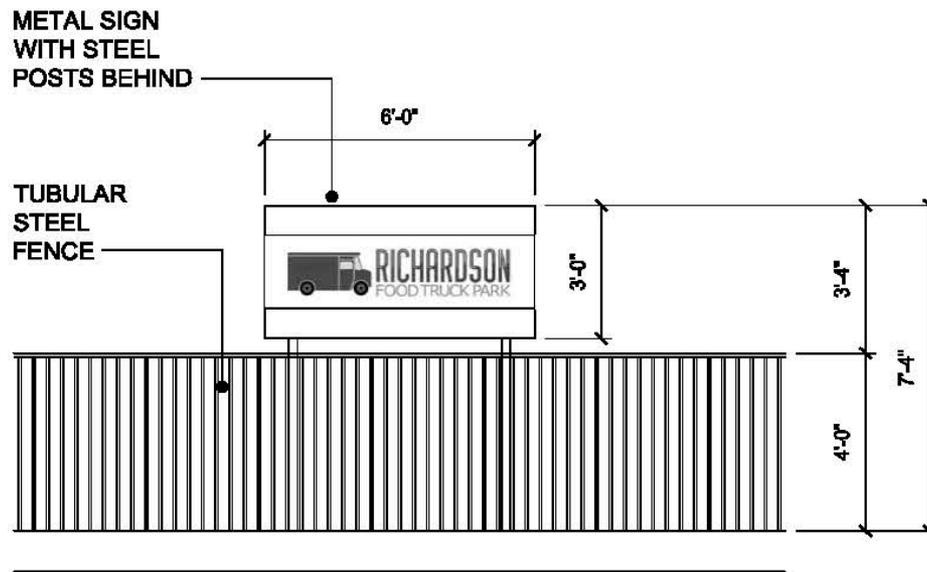
WEST ELEVATION WITH ROLL-UP DOOR OPEN

SCALE: 1/4" = 1'-0"

SHIPPING CONTAINER BAR ELEVATIONS

01

Building Elevations



SIGN ELEVATION

Sign Elevation



522

NOTICE
ALL WORKERS TO BE
ON TIME & DRESS
PROFESSIALLY & PUNCTUAL
FOR THE DAY.

Looking East at
Office Building



Looking East along
North Property Line



Looking East Toward
Food Truck Area

(3)



(4)

Looking West along
South Property Line



(5)

Looking West at
Subject Property



(6)

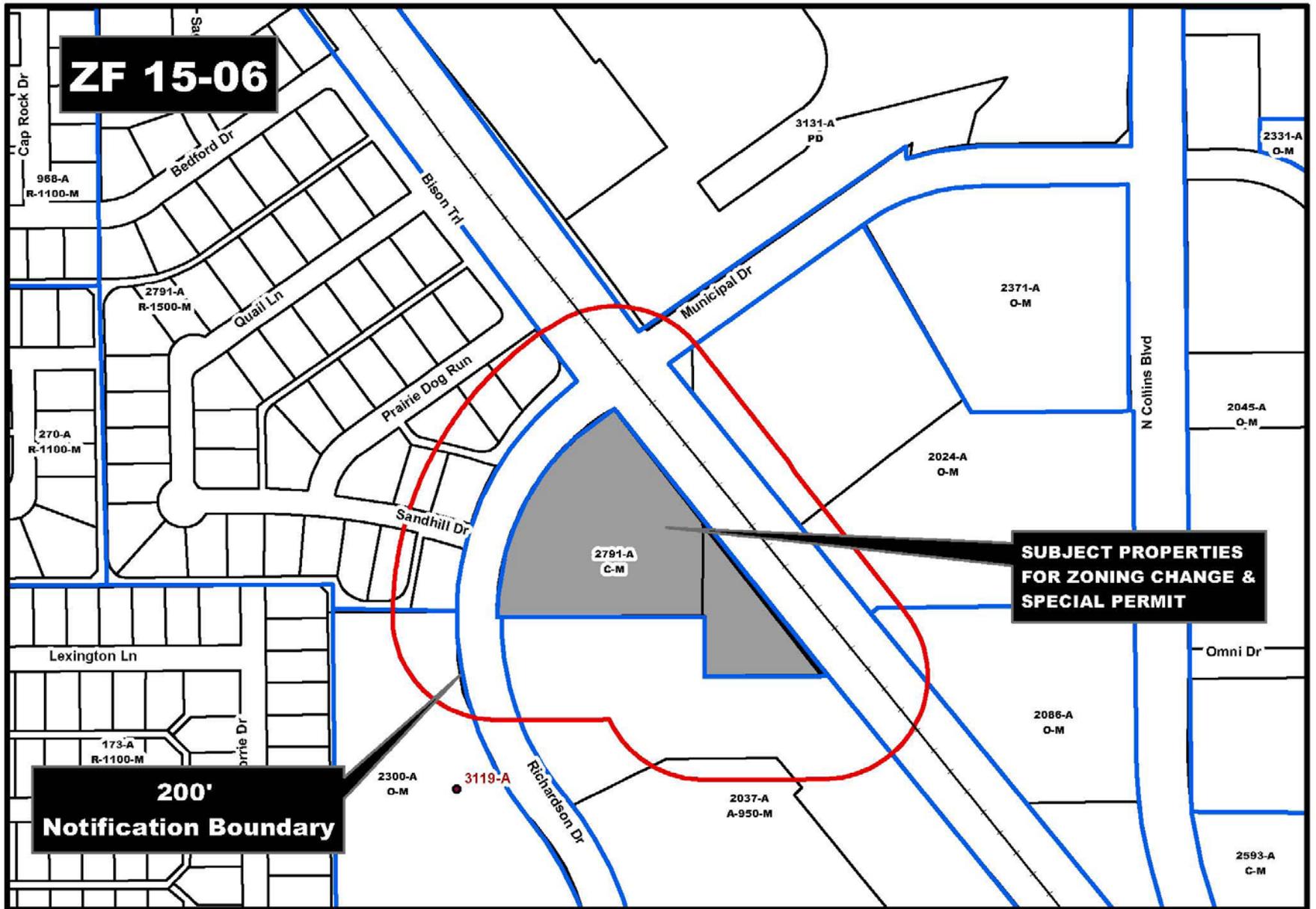
Looking East
across Alley



Looking North
along Alley



Agenda Item 7
ZONING FILE 15-06
Planned Development
(Nursing/Convalescent Home)



ZF 15-06 Notification Map

Updated By: shacklett, Update Date: March 23, 2015
 File: DSMMapping\Cases\Z\2015\ZF1506\ZF1506 notification.mxd

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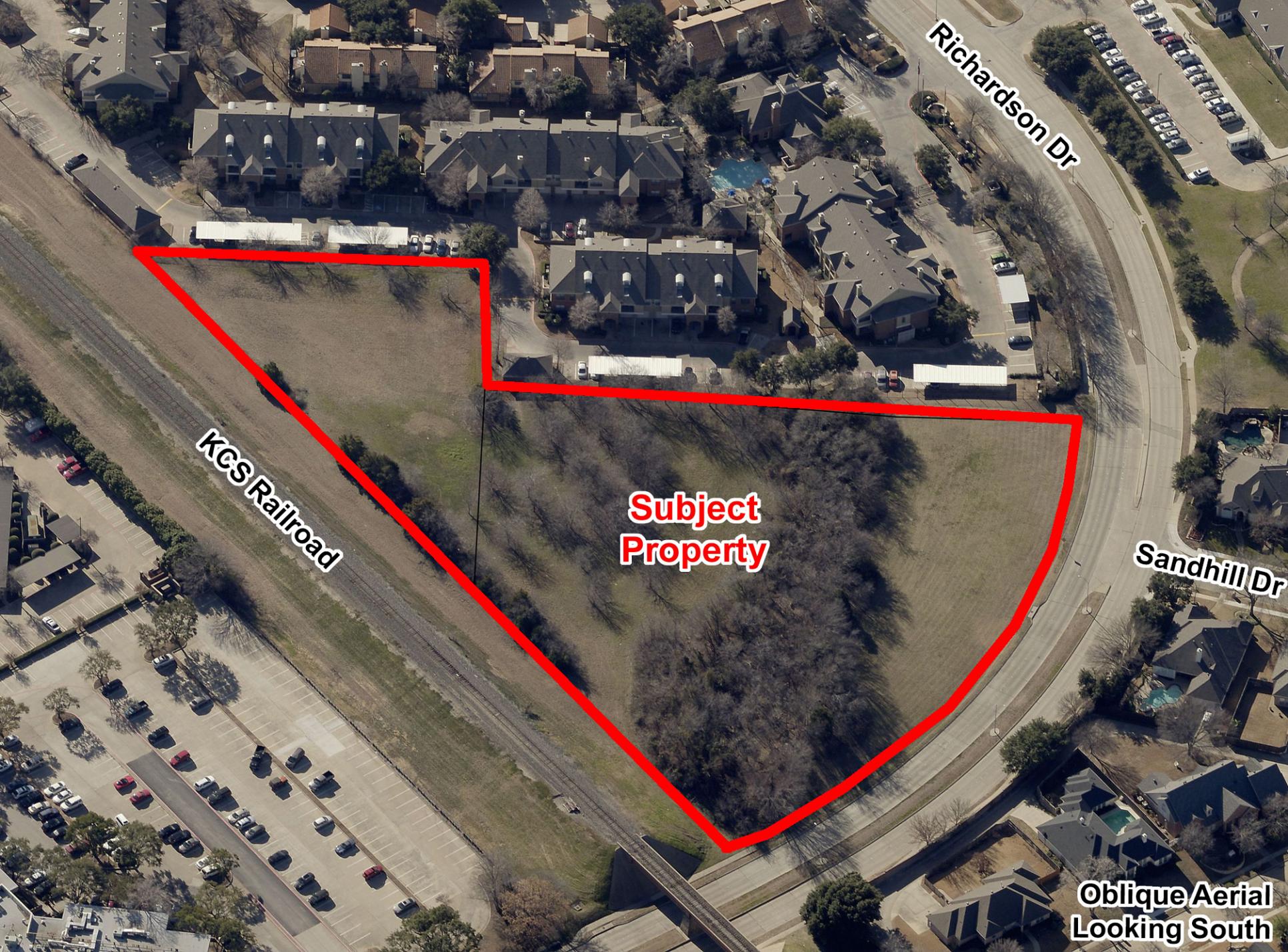


ZF 15-06 Aerial Map

Updated By: shacklett, Update Date: March 23, 2015
File: DSM\mapping\Cases\Z\2015\ZF 1506\ZF 1506_ortho.mxd

This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.





Richardson Dr

KCS Railroad

**Subject
Property**

Sandhill Dr

Oblique Aerial
Looking South



PROPERTY LOCATION



Site Data

Zoning: C-M

Proposed Zoning: PD - Planned Development - Base Zoning C-M with Setbacks by Zoning:

- Front Setback: 40 Ft
- Side of Building adjacent to Residential
- Rear of Building adjacent to Residential

Building/Parking Summary

- Lot Area: 3.54 - Acres (- 154,202 Sq.Ft)
- Building Square Footage / Building:
 - First Floor: 21,615 Sq.Ft
 - Second Floor: 18,450 Sq.Ft
 - Total: 40,065 Sq.Ft
- Parking Spaces Summary: Nursing Home. Total Parking Spaces Required: 0.6 per bed.
- Parking Spaces Provided: Regular Parking Spaces: Handicap Spaces: Total Spaces Provided:
- Landscaping: Required: 7% of total lot area (10,794 Sq.Ft). Provided: 45% of total lot area (69,707 Sq.Ft)
- Floor Area Ratio: 26:1
- Building Height: 26-11 1/4' to midpoint of roof/2. 2 story building within 150' of residential/apartment property.

Zoning Exhibit

OWNER:
AUSMONT CARE SERVICES LIVING
15000
Richardson, Texas 75080
25207 Avenue, Lot 8,
Southlake, Texas 75086



PROJECT LOCATION:
15000 Richardson, Texas 75080
25207 Avenue, Lot 8,
Southlake, Texas 75086



EXTERIOR ELEVATIONS
A801

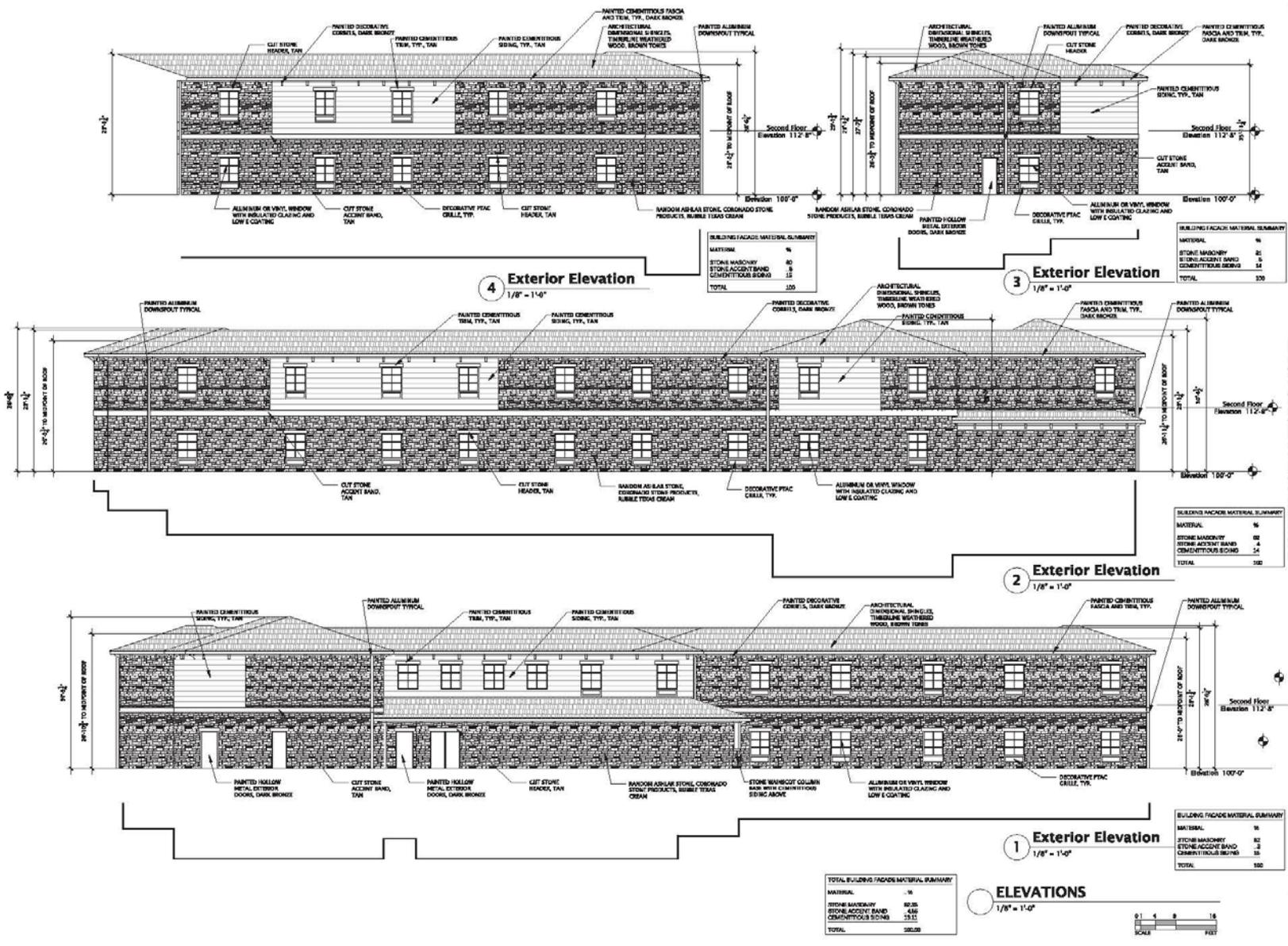


Exhibit C-1 - Part of Ordinance

Building Elevations



(1)

Looking Northeast at
Subject Property



(2)

Looking South along
Richardson Drive



**Looking Northeast along
Richardson Drive**

(3)



(4)

Looking East along
South Property Line



(5)

Looking South at
Rear of Property



(6)

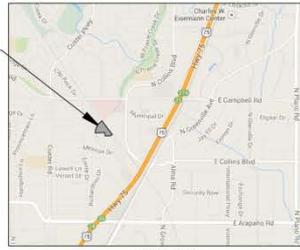
Looking East at
KCS Railroad



**Looking West across
Richardson Drive**



PROPERTY LOCATION



VICINITY MAP
NOT TO SCALE

Site Data

Zoning: C-M

Proposed Zoning: PD - Planned Development - Base Zoning C-M with Setbacks by Zoning:

- Front Setback: 40 Ft
- Side of Building adjacent to Residential
- Rear of Building adjacent to Residential

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- Floor Area Ratio: 26:1
- Building Height: 26-11 1/4' to midpoint of roof/2. 2 story building within 150' of residential/apartment.

Zoning Exhibit



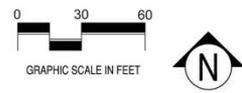
LANDSCAPE PLANT LEGEND		
SYMBOL	CANOPY + ORNAMENTALS	QTY.
	SHUMARD RED OAK QUERCUS SHUMARDII	9
	CEDAR ELM ULMUS CRASSIFOLIA	19
	CRAPE MYRTLE LAGERSTROEMIA INDICA	16
SHRUBS + OTHER		
TEXAS SAGE LEUCOPHYLLUM FRUTESCENS		
PHOTINIA PHOTINIA X FRASERI		
RED YUCCA HESPERALOE PARVIFLORA		
INDIAN HAWTHORN RHAPHIOLEPIS INDICA		
ABELIA ABELIA X GRANDIFLORA		
DWF. CRAPE MYRTLE LAGERSTROEMIA INDICA X FAUREI 'ACOMA'		
MONDO GRASS OPHIPOGON JAPONICUS		

GENERAL PLAN NOTES:

A COMBINATION OF RED OAK CANOPY TREES AND CRAPE MYRTLE ORNAMENTAL TREES TO BE PLANTED ALONG RICHARDSON DRIVE.

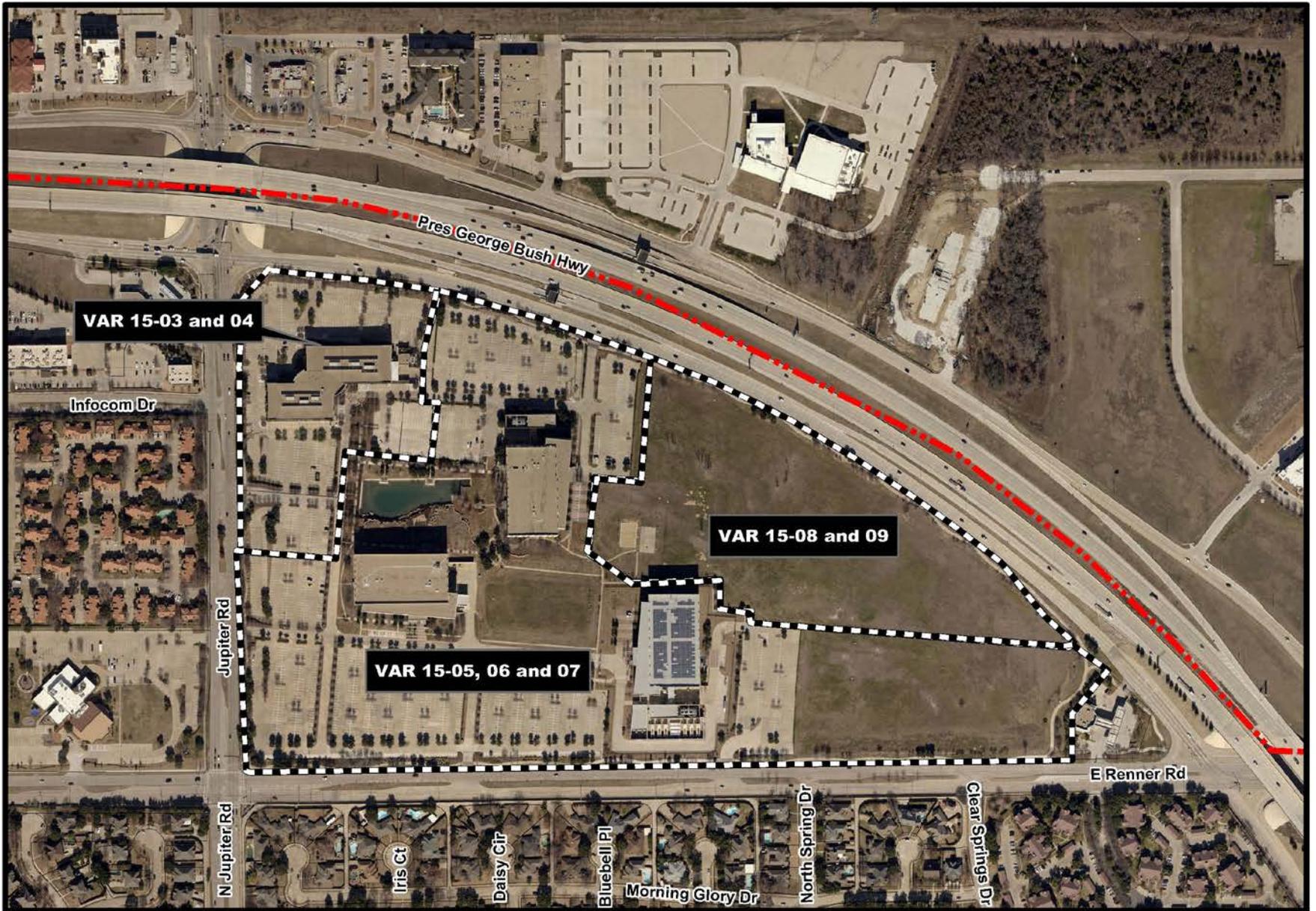
CEDAR ELM CANOPY TREES TO BE PLANTED IN LANDSCAPED ISLANDS WITHIN THE INTERIOR OF THE SITE.

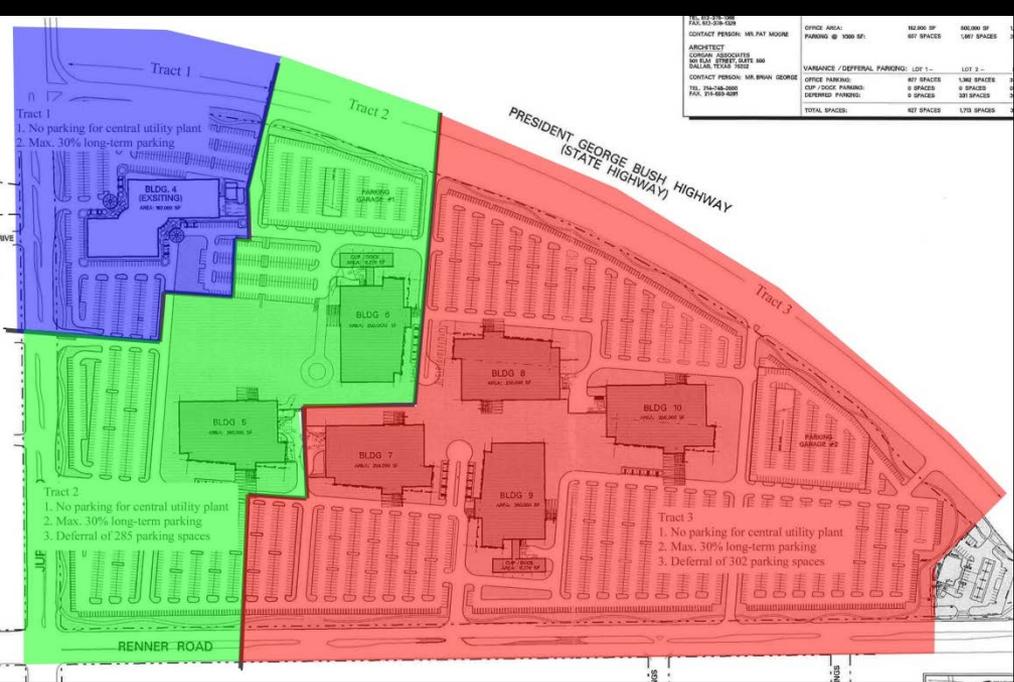
ALL SHRUBS ON SITE TO BE 5 GALLON MINIMUM UNLESS OTHERWISE NOTED BY OWNER / LANDSCAPE ARCHITECT.



Illustrative Landscape Plan

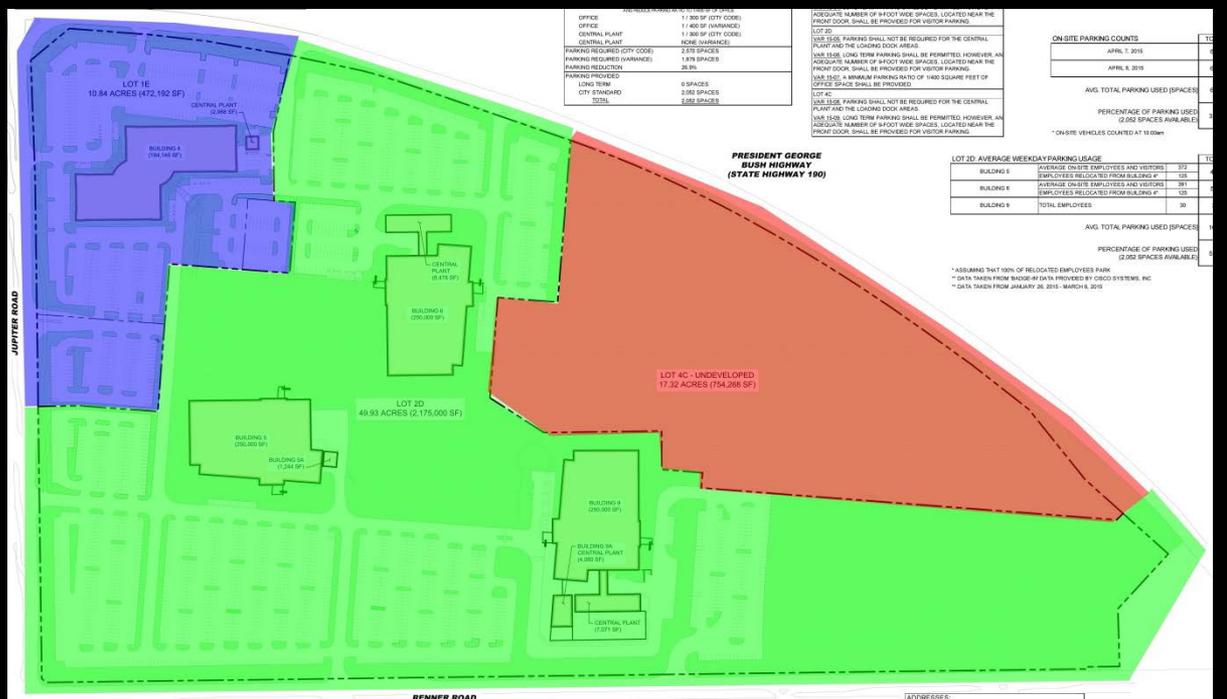
Agenda Items 8, 9, &10
VARIANCE NOS. 15-03 thru 15-09
Cisco





VAR 00-07

1. Parking waiver for central plant (each tract)
2. Max. 30% long-term parking (each tract)
3. 587 total parking spaces deferred
 - a. 285 on tract 2 (green)
 - b. 302 on tract 3 (red)
4. All granted to Cisco only (each tract)



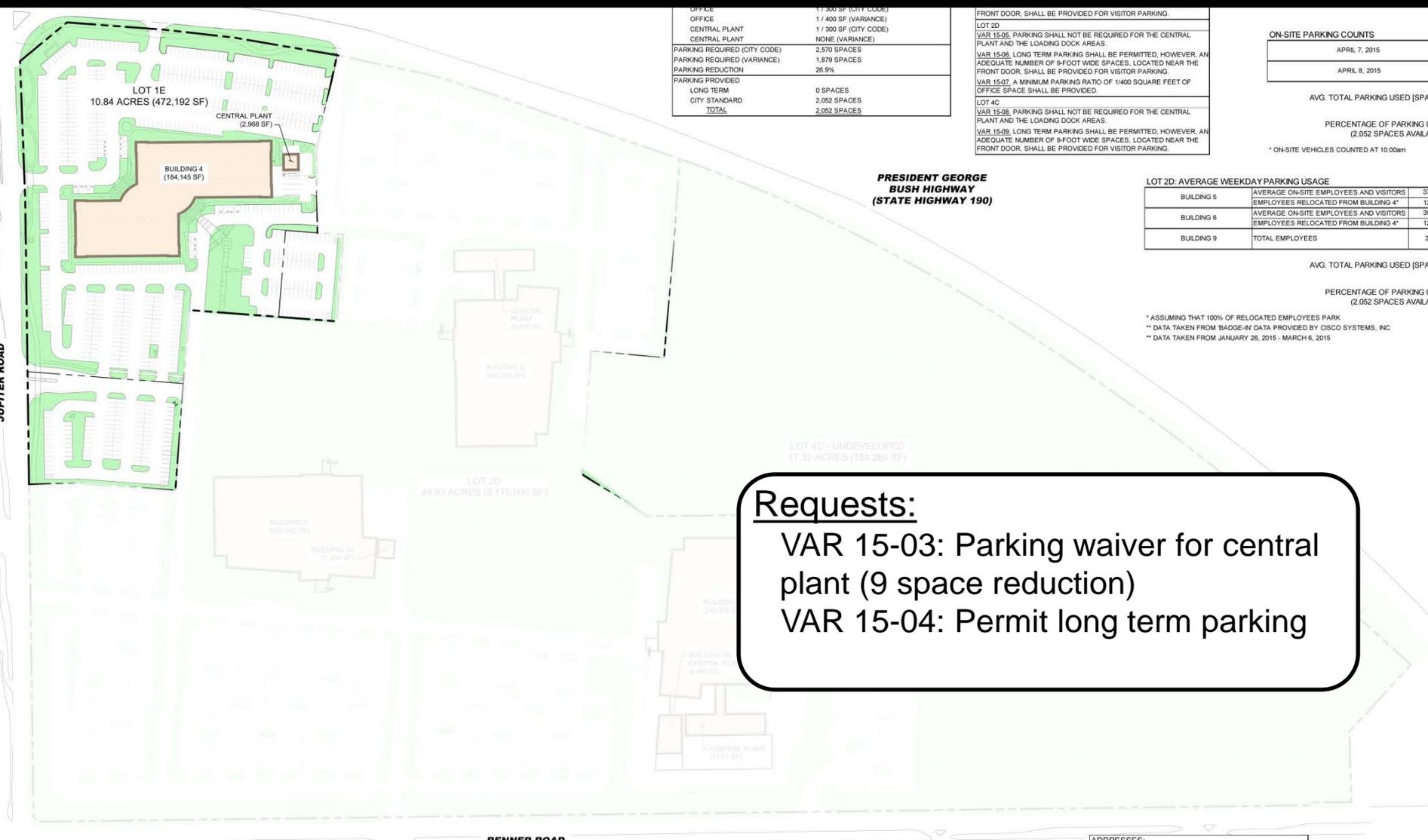
Proposed parcel lines
VAR 15-03 through 15-09

Agenda Item 8
VARIANCE NOS. 15-03 / 04
Cisco



VAR 15-03 and 04
Cisco Systems





OFFICE	17,300 SF (CITY CODE)
OFFICE	1 / 400 SF (VARIANCE)
CENTRAL PLANT	1 / 300 SF (CITY CODE)
CENTRAL PLANT	NONE (VARIANCE)
PARKING REQUIRED (CITY CODE)	2,570 SPACES
PARKING REQUIRED (VARIANCE)	1,879 SPACES
PARKING REDUCTION	28.9%
PARKING PROVIDED	
LONG TERM	0 SPACES
CITY STANDARD	2,052 SPACES
TOTAL	2,052 SPACES

FRONT DOOR, SHALL BE PROVIDED FOR VISITOR PARKING.

LOT 2D
 VAR 15-03, PARKING SHALL NOT BE REQUIRED FOR THE CENTRAL PLANT AND THE LOADING DOCK AREAS.
 VAR 15-06, LONG TERM PARKING SHALL BE PERMITTED, HOWEVER, AN ADEQUATE NUMBER OF 9-FOOT WIDE SPACES, LOCATED NEAR THE FRONT DOOR, SHALL BE PROVIDED FOR VISITOR PARKING.
 VAR 15-07, A MINIMUM PARKING RATIO OF 1/400 SQUARE FEET OF OFFICE SPACE SHALL BE PROVIDED.

LOT 4C
 VAR 15-08, PARKING SHALL NOT BE REQUIRED FOR THE CENTRAL PLANT AND THE LOADING DOCK AREAS.
 VAR 15-09, LONG TERM PARKING SHALL BE PERMITTED, HOWEVER, AN ADEQUATE NUMBER OF 9-FOOT WIDE SPACES, LOCATED NEAR THE FRONT DOOR, SHALL BE PROVIDED FOR VISITOR PARKING.

ON-SITE PARKING COUNTS	
	APRIL 7, 2015
	APRIL 8, 2015

AVG. TOTAL PARKING USED (SPACES)

PERCENTAGE OF PARKING L (2,052 SPACES AVAILA

* ON-SITE VEHICLES COUNTED AT 10:00am

**PRESIDENT GEORGE
 BUSH HIGHWAY
 (STATE HIGHWAY 190)**

LOT 2D: AVERAGE WEEKDAY PARKING USAGE		
BUILDING 5	AVERAGE ON-SITE EMPLOYEES AND VISITORS	37
	EMPLOYEES RELOCATED FROM BUILDING 4*	12
BUILDING 6	AVERAGE ON-SITE EMPLOYEES AND VISITORS	39
	EMPLOYEES RELOCATED FROM BUILDING 4*	12
BUILDING 9	TOTAL EMPLOYEES	30

AVG. TOTAL PARKING USED (SPACES)

PERCENTAGE OF PARKING L (2,052 SPACES AVAILA

* ASSUMING THAT 100% OF RELOCATED EMPLOYEES PARK
 ** DATA TAKEN FROM BADGE-IN DATA PROVIDED BY CISCO SYSTEMS, INC
 *** DATA TAKEN FROM JANUARY 26, 2015 - MARCH 6, 2015

Requests:
 VAR 15-03: Parking waiver for central plant (9 space reduction)
 VAR 15-04: Permit long term parking

RENNER ROAD

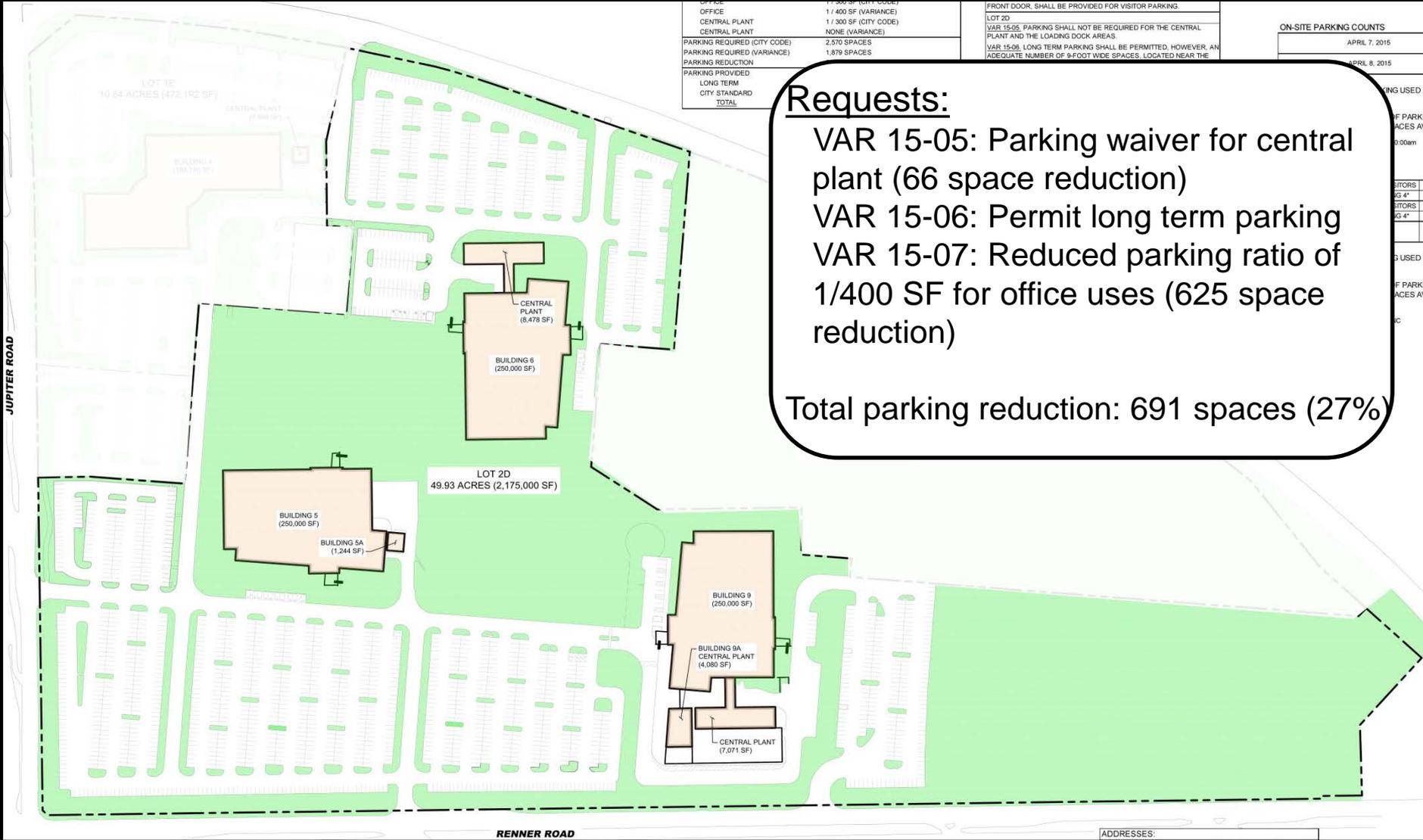
ADDRESSES:

Agenda Item 9
VARIANCE NOS. 15-05 / 06 / 07
Cisco



VAR 15-05, 06 and 07
Cisco Systems





Lot 2D Parking Reduction and Analysis

Per Ordinance

Office (1/300)	2,504
<u>Central Plant (1/300)</u>	<u>66</u>
Total	2,570 (2,052 provided)

Per Requests

Office (1/400)	1,879
<u>Central Plant (None)</u>	<u>0</u>
Total	1,879 (691 reduction; 27%)

Parking Analysis

Spaces provided	2,052 (+173 per request)
Spaces occupied	667 (32%)
Est. spaces occupied per employee transfer	1,043 (51%)

Agenda Item 10
VARIANCE NOS. 15-08 / 09
Cisco



VAR 15-08 and 09
Cisco Systems



Requests:

VAR 15-08: Parking waiver for central plant

VAR 15-09: Permit long term parking

OFFICE	17,400 SF (VARIANCE)
CENTRAL PLANT	1 / 300 SF (CITY CODE)
CENTRAL PLANT	NONE (VARIANCE)
PARKING REQUIRED (CITY CODE)	2,570 SPACES
PARKING REQUIRED (VARIANCE)	1,879 SPACES
PARKING REDUCTION	28.9%
PARKING PROVIDED	
LONG TERM	0 SPACES
CITY STANDARD	2,052 SPACES
TOTAL	2,052 SPACES

LOT 2D
VAR 15-05: PARKING SHALL NOT BE REQUIRED FOR THE CENTRAL PLANT AND THE LOADING DOCK AREAS.
VAR 15-06: LONG TERM PARKING SHALL BE PERMITTED, HOWEVER, AN ADEQUATE NUMBER OF 9-FOOT WIDE SPACES, LOCATED NEAR THE FRONT DOOR, SHALL BE PROVIDED FOR VISITOR PARKING.
VAR 15-07: A MINIMUM PARKING RATIO OF 1/400 SQUARE FEET OF OFFICE SPACE SHALL BE PROVIDED.
LOT 4C
VAR 15-08: PARKING SHALL NOT BE REQUIRED FOR THE CENTRAL PLANT AND THE LOADING DOCK AREAS.
VAR 15-09: LONG TERM PARKING SHALL BE PERMITTED, HOWEVER, AN ADEQUATE NUMBER OF 9-FOOT WIDE SPACES, LOCATED NEAR THE FRONT DOOR, SHALL BE PROVIDED FOR VISITOR PARKING.

ON-SITE PARKING COUNTS	
APRIL 7, 2015	
APRIL 8, 2015	
AVG. TOTAL PARKING USED (S)	
PERCENTAGE OF PARKING (2,052 SPACES AVAIL)	
* ON-SITE VEHICLES COUNTED AT 10:00am	

LOT 2D: AVERAGE WEEKDAY PARKING USAGE	
BUILDING 5	AVERAGE ON-SITE EMPLOYEES AND VISITORS
	EMPLOYEES RELOCATED FROM BUILDING 4*
BUILDING 6	AVERAGE ON-SITE EMPLOYEES AND VISITORS
	EMPLOYEES RELOCATED FROM BUILDING 4*
BUILDING 9	TOTAL EMPLOYEES

* ASSUMING THAT 100% OF RELOCATED EMPLOYEES PARK.
 ** DATA TAKEN FROM BADGE-IN DATA PROVIDED BY CISCO SYSTEMS, INC
 *** DATA TAKEN FROM JANUARY 26, 2015 - MARCH 6, 2015

JUPITER ROAD



RENNER ROAD

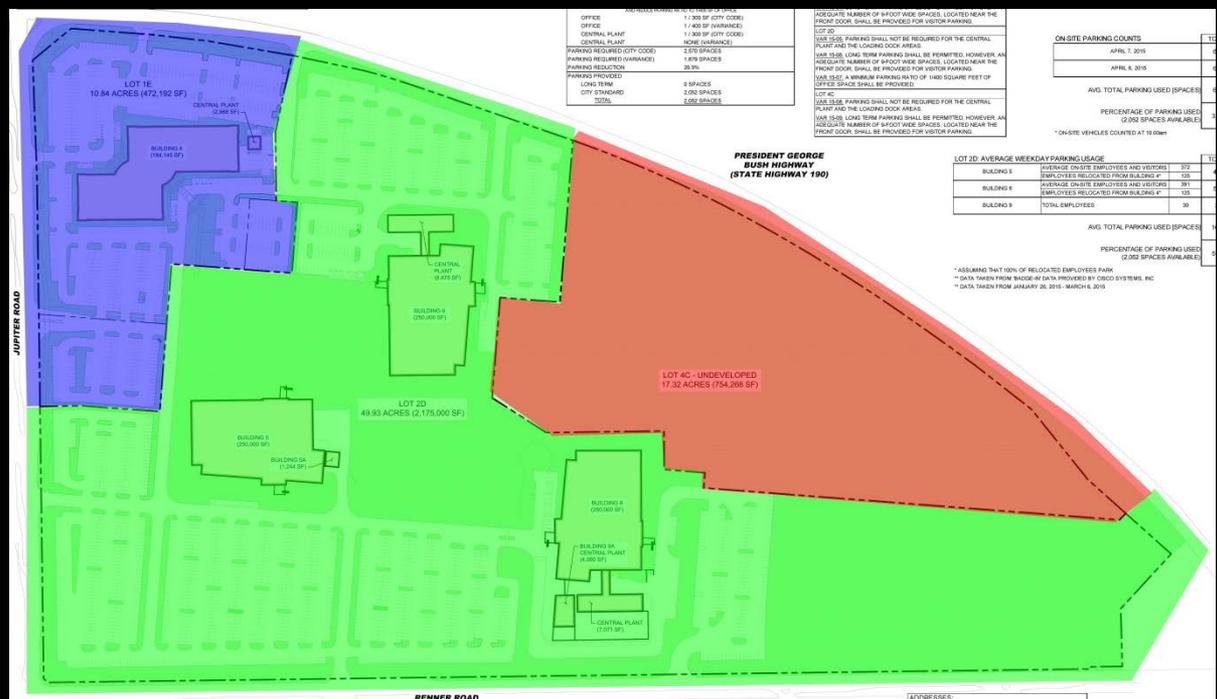
ADDRESSES:
 BUILDING 4 3200 EAST PRESIDENT GEORGE BUSH HIGHWAY

VAR 00-07

Tract 1	<ul style="list-style-type: none"> • Parking waiver for central plant • Max. 30% long-term parking 	Cisco Only
Tract 2	<ul style="list-style-type: none"> • Parking waiver for central plant • Max. 30% long-term parking • 285 deferred parking spaces 	
Tract 3	<ul style="list-style-type: none"> • Parking waiver for central plant • Max. 30% long-term parking • 302 deferred parking spaces 	

Current Requests

Lot 1E	<ul style="list-style-type: none"> • Parking waiver for central plant • Permit long-term parking
Tract 2D	<ul style="list-style-type: none"> • Parking waiver for central plant • Permit long-term parking • 1/400 SF office ratio
Tract 4C	<ul style="list-style-type: none"> • Parking waiver for central plant • Permit long-term parking



ON SITE PARKING COUNTS

	APRIL 1, 2015	APRIL 8, 2015
AVG. TOTAL PARKING USED (SPACES)		
PERCENTAGE OF PARKING USED (2,292 SPACES AVAILABLE)		

LOT 2D: AVERAGE WEEKDAY PARKING USAGE

	PERCENT OF TOTAL EMPLOYEES AND VISITORS	EMPLOYEES RELOCATED FROM BUILDING 4*
BUILDING 5	113	128
BUILDING 6	84	118
BUILDING 9	30	30
TOTAL EMPLOYEES		
AVG. TOTAL PARKING USED (SPACES)		
PERCENTAGE OF PARKING USED (2,292 SPACES AVAILABLE)		

* ASSUMING THAT 100% OF RELOCATED EMPLOYEES PARK
 ** DATA TAKEN FROM INSIDE 40 DATA PROVIDED BY CISCO SYSTEMS, INC.
 *** DATA TAKEN FROM JANUARY 26, 2015 - MARCH 4, 2015

Drainage Proposition

April 27, 2015



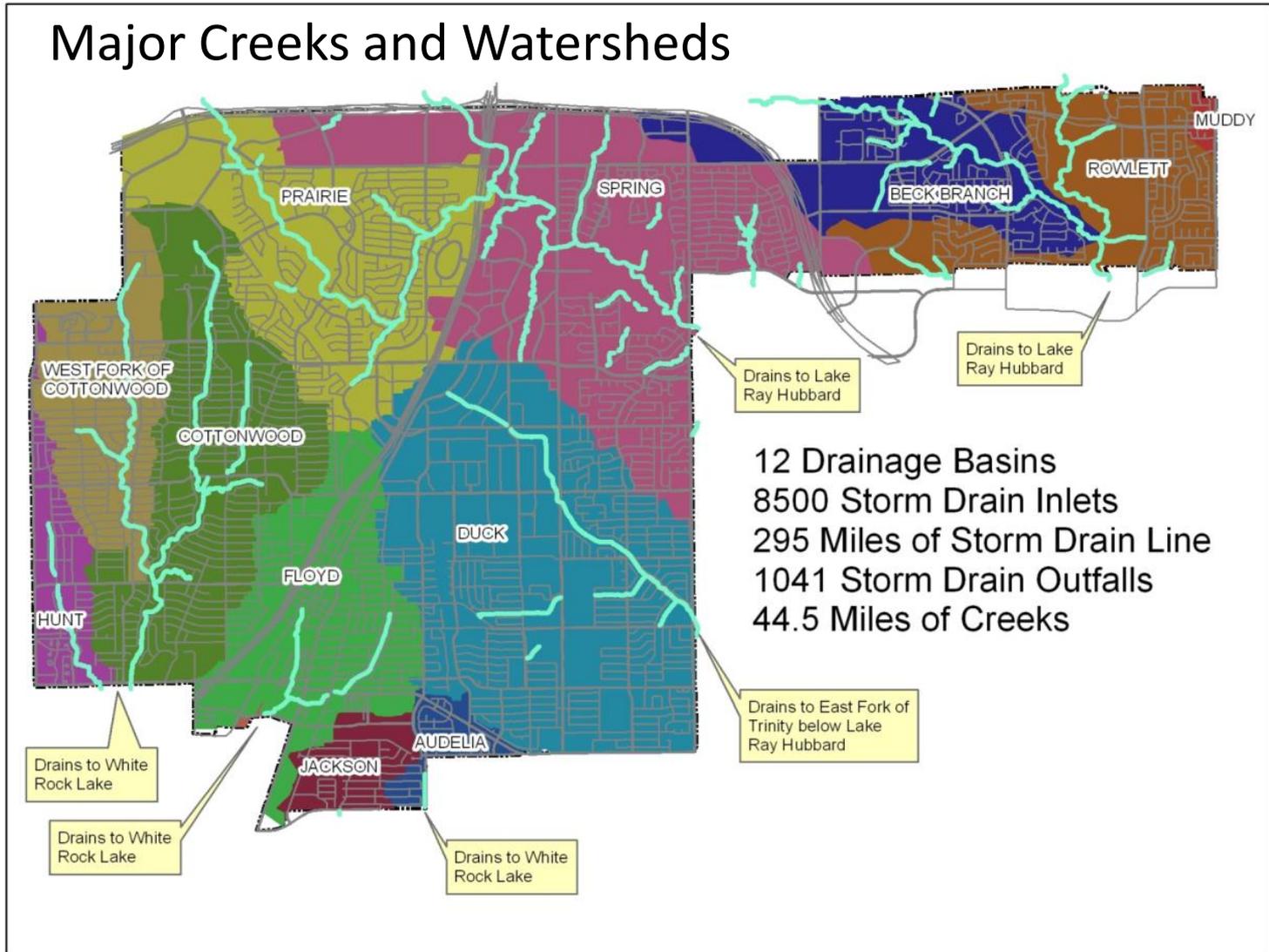
1 2015 G.O. Bond Program Consideration

Presentation Overview

- Background
- Highest Priority Drainage Projects
 - Flood Prevention
 - Bridges and Culverts
 - Erosion Control
 - Urban Lakes
- Next Steps

Background

Major Creeks and Watersheds



Background

- Drainage capital improvement projects are subdivided into the following project types:
 - Flood Prevention
 - Bridges and Culverts
 - Erosion Control
 - Urban Lakes
- Projects are identified from various sources including:
 - Inventories and condition assessments
 - Watershed studies and capital improvement plans
 - Flood plain mapping updates
 - Assessment of drainage concerns reported by individuals.

Background

- Inventories and Condition Assessments
 - 2014 Erosion Inventory
 - 2014 Urban Lake Inventory
 - 2013 TXDOT Bridge Inspection
- Watershed Studies and CIP
 - Floyd Branch Watershed CIP
 - Hunt Branch Watershed CIP
 - Upper Cottonwood Creek Study
 - Huffhines Branch Watershed CIP
- Information from these studies is combined with previous project information to develop priorities for each project type.

Background

- Project cost estimates and priorities are updated periodically within each project type for capital improvement planning as funding opportunities arise.
- Primary capital funding sources for drainage projects are bond programs and drainage utility capital programs.
 - Bonds – Used for capital projects of all sizes but generally target medium to major capital projects.
 - Drainage Utility Capital Program – Best suited for projects less than \$500,000 with some larger projects constructed with multi-year funding.
- The following drainage projects are Bond Program candidates
 - Drainage Utility – Annual Budget Review July 2015

Highest Ranking Drainage Projects

- Flood Prevention
- Erosion Control
- Bridges and Culverts
- Urban Lakes

Flood Prevention

Drainage Proposition

Flood Prevention Projects

- Types of Flooding Risks
 - Street Flooding
 - Structure Flooding – houses or commercial buildings
 - Roadway overtopping
- Flood prevention projects reduce flood risk by:
 - improving drainage capacity – additional or larger pipes
 - reducing peak flow rates – detention
- Recent Flood Prevention Projects include:
 - Floyd Branch from US75 to Kaufman
 - Custer Trails from Parkview Ln to Custer Road
 - Highland Blvd from Grove to Lois Branch
 - Brentwood Lane from Floyd to Cottonwood Creek (Summer 2015)
 - Laurel Lane from St. Luke's to Shenandoah (Fall 2015)

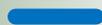
Drainage Proposition

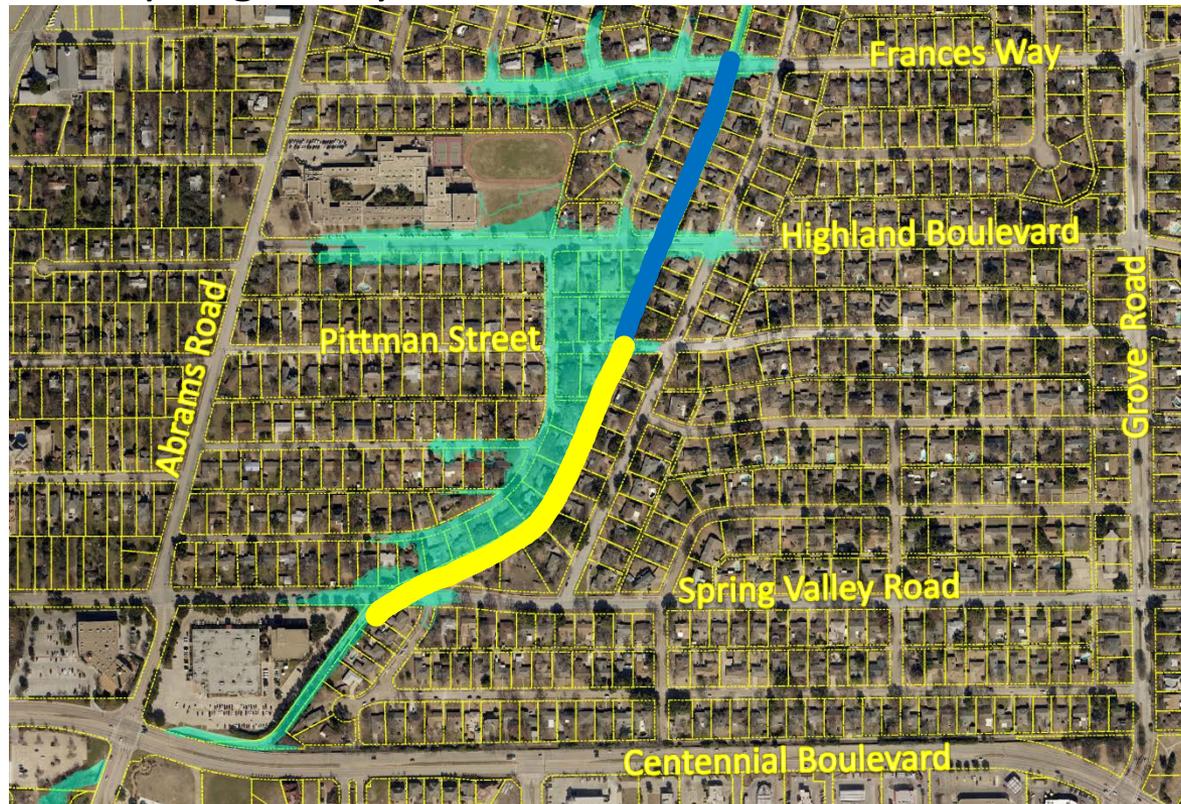
Flood Prevention Projects

- The following are the highest priority Flood Prevention Projects:
 - Lois Branch Channel Improvements \$9.9 M
 - Phase 1 – Spring Valley to Pittman \$4.0 M
 - West Fork of Cottonwood Creek Detention \$5.8 M
 - Glenville Dr Phase 1 – Belt Line Rd to Huffhines \$1.3 M

Drainage Proposition

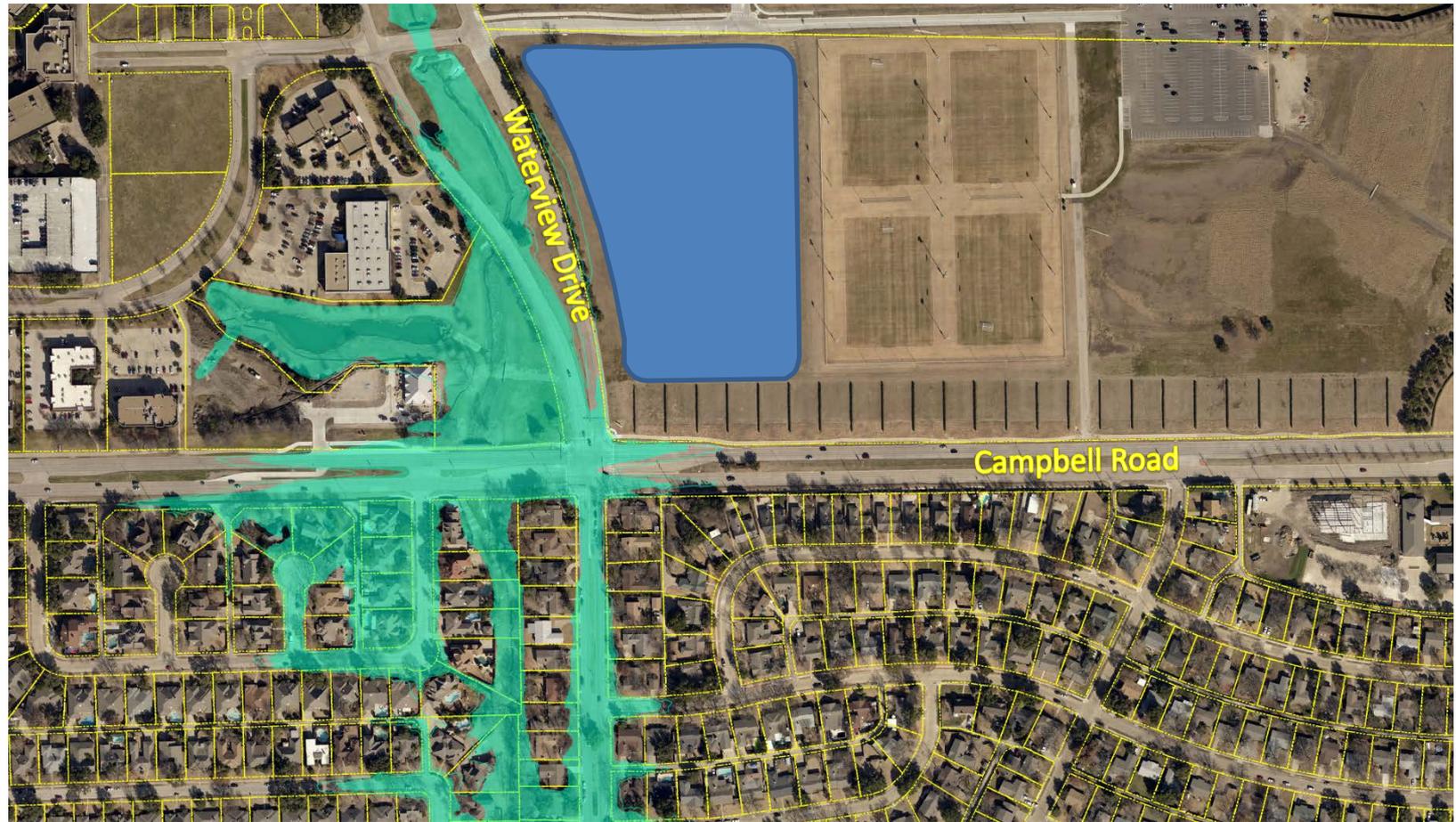
- **Lois Branch Channel Improvements** **\$9.9 M**
 - Enlarge existing concrete channel from Frances Way to Spring Valley
 - Reduce flood risk to approximately 20 homes
 - Reduce overtopping at Frances, Highland, Pittman & Spring Valley
 - Phase 1- Spring Valley to Pittman \$4.0 M

 Phase I
 Future Phases



Drainage Proposition

- West Fork of Cottonwood Creek Detention \$5.8 M



Drainage Proposition

- Glenville Drive Phase 1 – Belt Line Road to Huffhines \$1.3 M
 - Install 12'x6' culvert from Belt Line to Huffhines Branch
 - Reduces Belt Line street flooding
 - Reduces flood risk for commercial buildings



Bridges and Culverts

Drainage Proposition

Bridge and Culvert Projects

- Bridge and Culvert projects
 - improve drainage capacity and alleviate flood risk
 - address structural needs
- Recent Bridge and Culvert projects include Dumont Culvert at Hunt Branch, Phillips Bridge at Floyd Branch, Spring Valley at Floyd Branch, Brentwood, Melrose and Wisteria at Cottonwood Creek and Northlake Culvert at West Fork



Drainage Proposition

Bridge and Culvert Projects



**Spring Valley Road at Floyd Branch
Existing - 2- 10'x 10' Culvert**



**Spring Valley Road at Floyd Branch
Bridge 75' Wide x 12' High**

Drainage Proposition

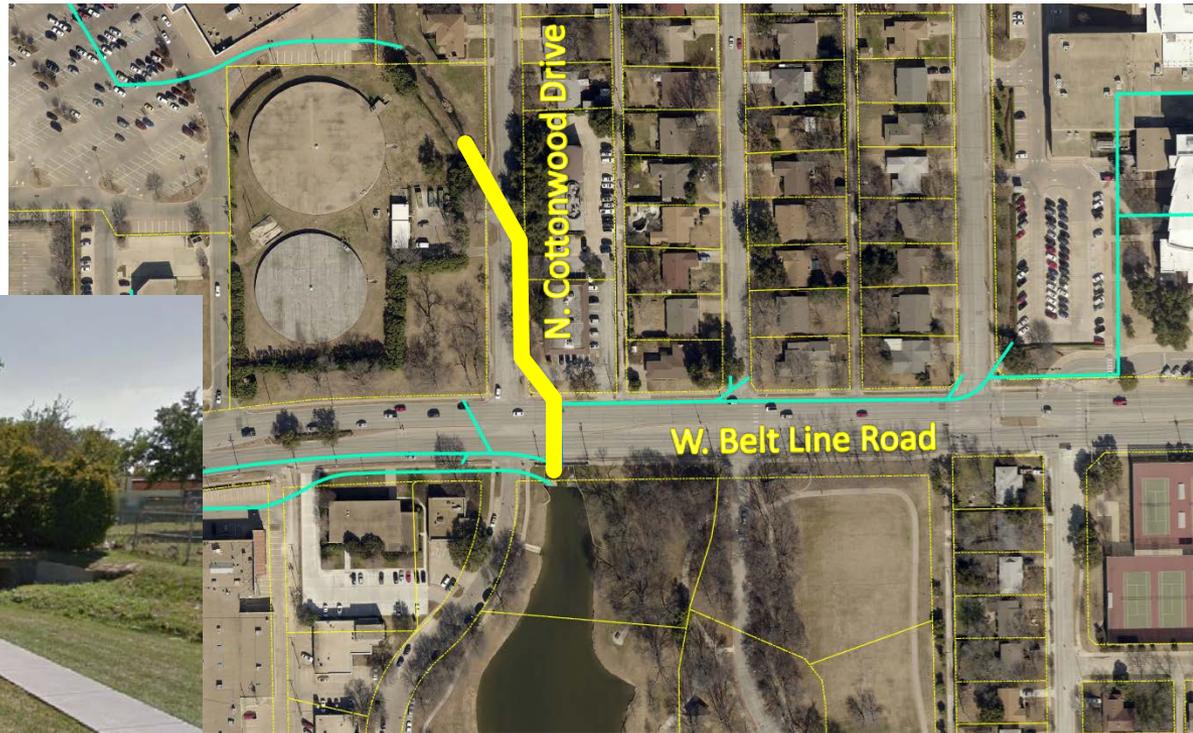
Bridge and Culvert Projects

- The following are the highest priority Bridge and Culvert Projects:
 - W. Belt Line Rd. at Hunt Branch \$2.0 M
 - Cherrywood Ln at Hunt Branch \$0.6 M
 - Regal Rd at Hunt Branch \$0.4 M

Drainage Proposition

- **W. Belt Line at Hunt Branch** **\$2.0 M**
 - Cottonwood Drive and Belt Line Road overtopped by 2.7 feet in 1% annual chance flood.
 - Add triple 9'x5' box culverts capacity to alleviate overtopping.

— Existing Storm
— Proposed Triple 9'x5' Culverts



Drainage Proposition

- **Cherrywood Lane at Hunt Branch** **\$0.6 M**
 - Roadway overtopped by 2.7 feet in 1% annual chance flood.
 - Replace existing triple 48" pipe culverts with triple 7'x4' box culverts

Existing Storm
Proposed Triple
7'x4' Culverts



Drainage Proposition

• Regal at Hunt Branch

\$0.4 M

- Roadway overtopped by 2.7 feet in 1% annual chance flood.
- Install additional 10'x9' box culvert with lower flow line to alleviate overtopping and reduce flood plain.

— Existing Storm
— Proposed 10'x9'
Culvert

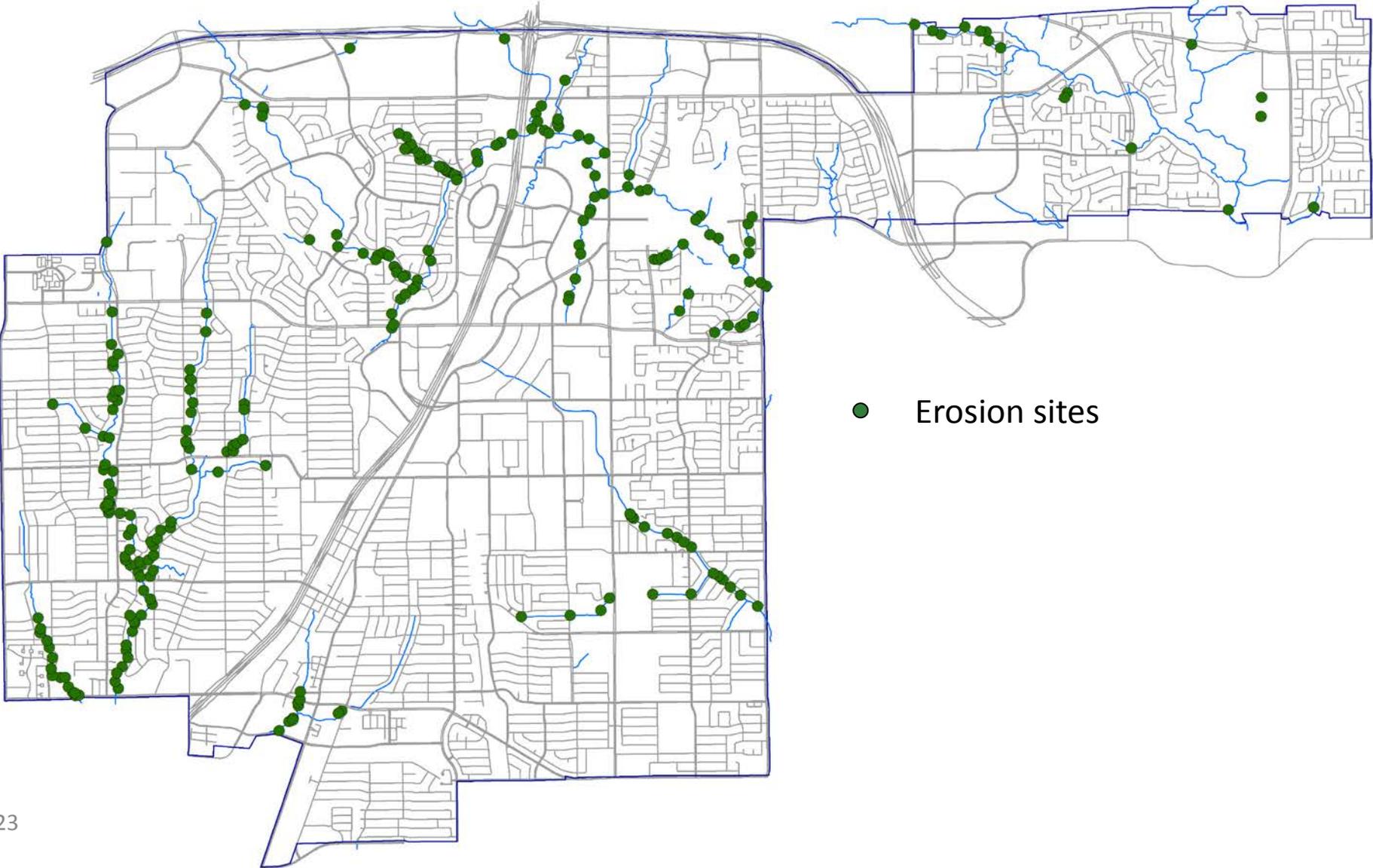


Erosion Control Projects

2014 Erosion Inventory

- 2014 Creek Erosion Inventory completed by Walter P. Moore & Associates, Inc. as update to 2009 Inventory
- Investigated 253 sites on creeks throughout the City
 - Assess threat to private structures - commercial buildings, homes, garages and pools
 - Assess threat to public infrastructure – bridges, culverts, utility crossings and storm drain outfalls
- Updated ratings based on erosion activity
 - High priority rating - structure may be threatened within 5 years.
 - Medium priority rating - structure may be threatened within 10 years.
 - The ratings for some sites were downgraded from 2009 due to a reduced rate of erosion noted from previous studies.

2014 Erosion Control Inventory



Drainage Proposition

Erosion Control Projects

- Erosion Control Projects construct bank stabilization or address scour at drainage outfalls or other infrastructure
- Projects protecting private property require owner participation
 - Property Owners' share 50% of the project cost for commercial properties.
 - Participation for single family residential sites is capped at \$5,000
- Recent Erosion Control Projects include
 - Braeburn Drive at Fox Creek
 - Timberway at Wood Creek

Drainage Proposition

Erosion Control Projects

- Braeburn Drive at Fox Creek



- Timberway at Wood Creek



Drainage Proposition

Erosion Control Projects

- The following are the highest priority Erosion Control Projects:
 - Breckinridge Park Area A Channel \$ 700,000
 - Woods Park on Beck Branch – 4 sites \$ 600,000
 - Spring Creek at Plano Rd - \$ 1,100,000

Drainage Proposition

Breckinridge Park

- Pedestrian Bridge
- NTMWD Pipe Line

\$700,000



Drainage Proposition

Woods Park on Beck Branch

\$600,000

- Four sites - 3 storm drain outfall and a park trail



Spring Creek at Plano Road Bridge

\$1.1M

- Erosion along south bank and bridge abutment



Urban Lakes

Urban Lakes

- 2014 Urban Lakes Inventory completed by Walter P. Moore & Associates, Inc. as update to 2009 Inventory
- Condition assessment for 60 Lakes throughout the City
 - Condition of inflow and outflow structures
 - Depth of water
 - Selected lakes for more detailed review
- Detailed assessment of five lakes
 - Estimated depth and volume of silt
 - Sampled soil conditions related to disposal
 - Estimated cost for dredging, shoreline and structural needs

Urban Lakes

Study Findings

- Most lakes were found to be structurally sound and in overall good condition.
- Most lakes have sufficient water depth to deter growth of undesirable vegetation.
- No flood risk conditions were identified.
- No major structural needs were identified.

Urban Lakes

Study Findings

- The primary concerns were maintenance and repair rather than capital improvements
 - Shoreline repair and maintenance
 - Accumulation of silt in culverts
 - Accumulation of litter and debris
- Maintenance projects may be considered for funding from operations budget
- No Urban Lake projects are included in highest priority drainage capital projects.

Drainage Proposition

Next Steps:

- January 2015-June 2015
 - Complete Inventories, Studies and Master Plans
 - Initial review of project inventories with the City Council
- June 2015-July 2015
 - City Council Bond Referendum Development
 - Drainage Utility Annual Budget Review
- August 2015-Novemeber 2015
 - City Council Adoption of Bond Resolution

(August 3, 2015 target date, August 24, 2015- last possible date)

- Bond Referendum (November 3, 2015)



City of Richardson 2014 Water Conservation Plan Implementation

“The New Normal”

City Council Briefing: April 27, 2015

Introduction

- After almost five years under watering restrictions, the North Texas Municipal Water District's (NTMWD) water supply reservoirs have reached sufficient levels and capacities to permit the District and its member and customer cities to transition to their respective 2014 Water Conservation Plans on May 1, 2015.
 - 2014 plans permit twice per week watering, if needed

NTMWD Reservoirs Status

Reservoir	Elevation on January 27, 2015	Elevation on April 27, 2015	Increase in Elevation	Percent Full
Lake Lavon	479.88 ft.	492.75 ft.	12.87 ft.	100%
Lake Tawakoni	426.19 ft.	433.44 ft.	7.25 ft.	83.6%
Lake Chapman	429.09 ft.	440.91 ft.	11.82 ft.	100%
Lake Texoma	611.98 ft.	616.52 ft.	4.54 ft.	98.6%

Why Transition to Twice a Week Watering Now?

- Required by the NTMWD and the City of Richardson's Conservation Plan submitted to the State of Texas

Water Conservation & Management Plans

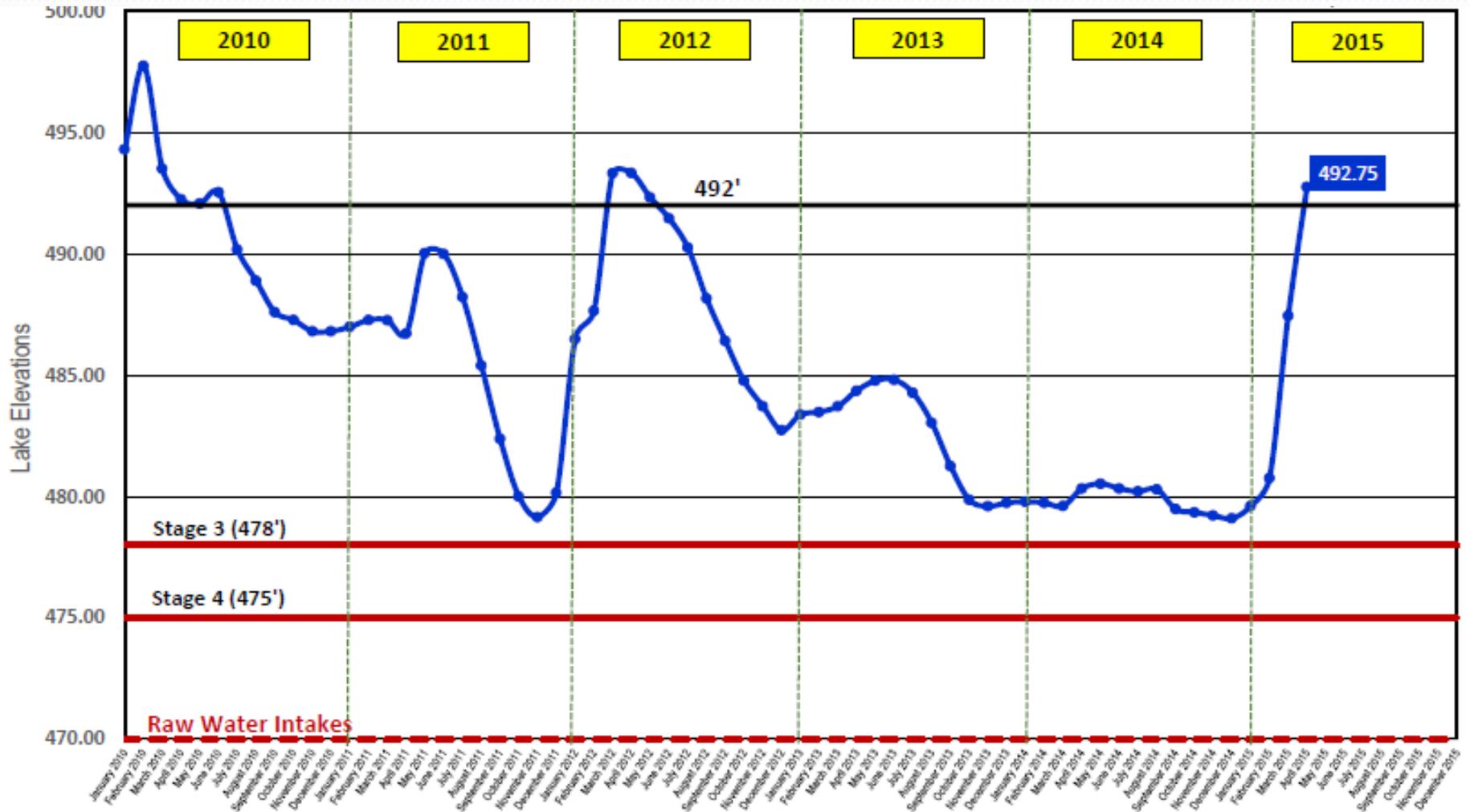
Total Conservation Pool Capacity Metrics

	Lake Lavon Level	Lake Chapmen Level
Water Conservation Plan	< 55%	< 55%
Water Management Plan Stage 1	> 55%	> 55%
Water Management Plan Stage 2	> 45%	> 45%
Water Management Plan Stage 3	> 35%	> 35%

Why Transition to Twice a Week Watering Now?

- Required by the NTMWD and City of Richardson's Conservation Plan submitted to the State of Texas
- Assist in managing water levels in reservoirs, which are currently exceeding or nearing the conservation pool in all of the District's reservoirs
 - Will reduce the likelihood "releases" by Corp of Engineers will be necessary

Lake Lavon Elevation by Month



2014 Water Conservation & Resource Management Plans

2014 Water Conservation Plan

Landscape & Water Management Measures

- Lawn irrigation with sprinklers is limited to 2 timers per week year-round as outlined by Administrative Order

Irrigation Schedule – Effective May 1, 2015

New Normal

Lawn watering schedule for sprinklers and Irrigation systems

Twice-per-week

Lawn irrigation is prohibited from 10 a.m. to 6 p.m. or during periods of rain.

- Water days for odd numbered addresses (ending in 1, 3, 5, 7, 9)
- Water days for even numbered addresses (ending in 2, 4, 6, 8, 0)

May 2015						
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24 31	25	26	27	28	29	30

June 2015						
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

July 2015						
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

August 2015						
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23 30	24 31	25	26	27	28	29

September 2015						
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

October 2015						
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

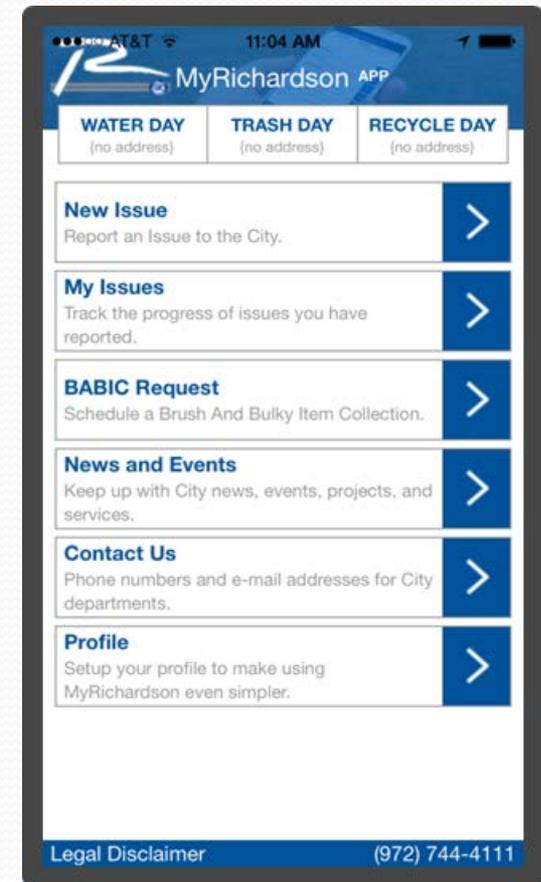
2014 Water Conservation Plan

Landscape & Water Management Measures

- Lawn irrigation with sprinklers is limited to 2 timers per week year-round as outlined by Administrative Order
- Lawn irrigation with sprinklers between the hours of 10am-6pm from April 1st – October 31st is prohibited
- Excessive runoff and watering during periods of freezing temperatures and precipitation is prohibited
- Outdoor watering during precipitation or freeze event is prohibited
- The use of poorly maintained sprinkler systems that waste water is prohibited
- Excess water runoff or other obvious waste is prohibited

Enforcement of Water Conservation Plan

- For a first violation of any provision, the City will issue a letter and provide educational materials on water conservation to the water user violating the provisions of the ordinance
- For a second violation of any provision, the City shall issue the water user a citation and a fine not to exceed the sum of \$2,000
- Report violations on the MyRichardson App, www.cor.net, or 972-744-4111



2014 Water Conservation & Resource Management Plans vs. 2008 Plans

Stage	Landscape Watering with Sprinkler/Irrigation Systems
2008 Plan	Unlimited
2014 Plan	2x per week year round
2008 Plan	Unlimited
2014 Plan	2x per week on designated days between April 1 – October 31 1x per week on a designated day between November 1 – March 31
2008 Plan	2x per week year round
2014 Plan	1x per week on designated days between April 1 – October 31 2x a month on designated days between November 1 – March 31
2008 Plan	1x per week year round
2014 Plan	Prohibit the irrigation of landscaping using treated water
2008 Plan	Prohibit the irrigation of landscaping using treated water
2014 Plan	NA

Education & Awareness

The “New Normal”

- Lawn irrigation with sprinklers is limited to **2 timers per week year-round and only if needed.**
- Lawn irrigation with sprinklers between the hours of 10am-6pm from April 1st – October 31st is prohibited

ONLINE SERVICES | NEWS | CALENDAR | JOB OPENINGS | CITY MAPS | 972.744.4100 | LOGIN | TRANSLATE THIS PAGE

Richardson TEXAS

RESIDENTS | BUSINESSSES | VISITORS | GOVERNMENT | SERVICES | DEPARTMENTS | I WANT TO...

NEW NORMAL

TRASH BASH

Cottonwood ART FESTIVAL

VOTING INFORMATION

Click here for more information

“New Normal” Water Plan in Effect

Starting May 1st, residents may water up to twice per week as part of the City’s “New Normal” water conservation plan.

TRANSPARENCY | WATER BILL | PERMITS | TRASH & RECYCLING | EMPLOYMENT | ZONING CHANGE REQUEST

NEWS

Week In Review, April 17, 2015
A series of weekly messages from the Mayor and City Council to help Richardson residents and businesses keep up to date on events at City Hall.

Cottonwood Art Festival
Spring Edition of Richardson’s Cottonwood Art Festival is Filled With Family Fun
The City of Richardson’s prestigious art show features ArtStop interactive children’s area

Richardson’s Wildflower! Arts & Music Festival

EVENTS

27 APR City Council Worksession and Regular Meeting 6:00 PM

04 MAY City Council Worksession 6:00 PM

11 MAY City Council Worksession and Regular Meeting 6:00 PM

MEETINGS

Friday April 24
Thunderstorm Light Rain
Fog/Mist 66°

April 2015						
S	M	T	W	T	F	S
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2
3	4	5	6	7	8	9

MORE NEWS | FULL CALENDAR

The "New Normal"

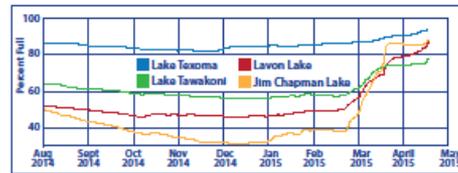


the "New Normal"

www.COR.net/WaterConservation • 972-744-4220

Richardson moved into its regular Water Conservation Plan effective May 1, signalling the beginning of a "new normal" for water use in the city. Residents and businesses may now water lawns with sprinklers or an irrigation system a maximum of twice-per-week until further notice. Richardson's new outdoor watering schedule allows for

irrigation at even addresses on Tuesdays and Saturdays and at odd addresses on Wednesdays and Sundays, with no lawn watering from 10 a.m.-6 p.m. Additional watering of landscapes and lawns may be provided by hand held hose with shutoff nozzle, drip irrigation and soaker hose any day of the week at any time.



Major Supply Reservoirs	Full Lake Level*	Current Lake Level*	Percentage Full	Provides % of NTMWD Supply
Lavon Lake	492	489.37	87%	30%
Jim Chapman Lake	440	438.22	88.3%	15%
Lake Tawakoni	437.5	431.57	76.5%	8%
Lake Texoma	617	614.98	94.2%	28%

*Foot above mean sea level

RICHARDSON TODAY

Published by the City of Richardson www.cor.net - 972-744-4104 May 2015, Vol. 27, No. 8

Wildflower! rocks Richardson May 15-17

Planning for the annual Wildflower Arts & Music Festival is a year-round endeavor and looking at the glaze of accomplishments for producing the great event is short lived, since preparation for the next year's show begins immediately. City staff and volunteers have been working hard for the last 11 months to once again provide the tens of thousands of spectators with an award-winning, multi-day music and arts festival May 15-17.



Wynonna & The Big Noise



Kansas

lady 12 and under get in free on Sunday with a paid adult courtesy of Bank of America and adult tickets are \$10 on Sunday courtesy of Cinco.

Wildflower is North Texas largest music festival and has been named "Best of the Forts" by D Magazine. In addition to the headlining acts, the festival will include food vendors, street performers, a kids area, art gallery sections and much more.

Stay up to date on the latest Wildflower information at www.wildflowerfestival.com or on Facebook at www.facebook.com/wildflowerfestival.



Pat Benatar & Neil Giraldo

20 Special

This year's music lineup has more than 90 acts performing on six stages and offers everything from the classic rock of Pat Benatar, Kansas and 30 Special, the country sounds of Wynonna Judd, The Judds and Gary P. Nunn, to local bands that get a chance to shine.

Pages 8 and 4 of this publication provide a complete schedule for all the music acts and Performer



Blue October

Outside legal counsel appointed to conduct ethics investigation

Richardson City Attorney has appointed outside legal counsel George A. Staples, Jr. to review and process any written complaints filed under the City Ethics Code regarding the events surrounding the zoning change for the Palakos mixed-use development in Richardson. In addition to evaluating any filed complaints, Staples has also been engaged by the city attorney to conduct an independent investigation of the events surrounding the zoning change. This independent investigation is separate and apart from what is required under the Ethics Code.

The purpose of the investigation is to determine the facts surrounding the issues of whether the mayor or members of the City Council violated the Ethics Code, state law or the City Charter in the approval of the Palakos zoning change; whether the mayor had a business relationship with Mark Jankovich/Healthy or other developer of the Palakos property at the time the zoning change was approved. ... continued on page 5

Process for filling potential mayoral vacancy after election

Last month, Richardson Mayor Laura Mackie announced her intention to decline to serve as mayor for the 2015-17 term when the May 9, 2015, election results are announced. Mayor Mackie is currently an unopposed candidate for the mayoral position on the May 9 election.

Under the City Charter, if Mayor Mackie declares a declaration to serve as mayor for the 2015-17 term, the following would occur: The City Council would select one of its members to act in the place of the mayor until a candidate deadline for the May 9 municipal election had passed at the time of the announcement,

and that no changes to the bid be possible. Thus, if Mayor Mackie declines to serve as mayor for the 2015-17 term, when the election results are announced after the May 9 election, there will be a vacancy in the mayoral position.

The remaining, newly-elected City Council members would take their oath of office, but not the mayor's office.

The City Council would select one of its members to act in the place of the mayor until a candidate deadline for the May 9 municipal election had passed at the time of the announcement,

Twice-per-week watering schedule

	May 2015						June 2015																						
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20									
Water days for odd numbered addresses (ending in 1, 3, 5, 7, 9)	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Water Supply Reservoir	Full Lake Level	Current Lake Level	Percentage Full	Provides % of NTMWD Supply
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Lake Texoma	617	614.98	94.2%	28%



What's Inside
RICHARDSON PARKS AND RECREATION GUIDE
Summer Rec Guide Inside

Milestone Ceremony for City Dog Park
Richardson held a milestone ceremony for its South Central Parkway Dog Park last month as the official opening drew near.
Page 6



Council Approves Public Art Master Plan
The City Council has approved a Public Art Master Plan to craft a vision to increase public art in Richardson.
Page 6

Postal Customer Richardson, TX
THE CITY OF RICHARDSON, TEXAS
RICHARDSON, TEXAS

UPCOMING CITY EVENTS

April 24-26: Friends of the Library Spring Book Sale, 10 a.m.-5 p.m. April 24 and 3-2 p.m. April 25, Richardson Public Library, 900 Civic Center Dr. Visit www.richardson.org for more information.

April 27-May 5: Early voting for May 9 City Council election. Visit www.cor.net/elections for a sample ballot and information on early voting locations and polling hours.

May 9: Election Day for May 9 City Council election. Visit www.cor.net/elections for a sample ballot and information on Election Day voting locations and polling hours.

RICHARDSON Homeowners and Neighborhood Associations Edition TODAY April 2015

City moves to "New Normal" water plan

Beginning May 1, the City of Richardson will start its "New Normal" water conservation plan. The plan allows residents to water twice per week, rather than the twice per month that is allowed under the current Stage 3 water restrictions. The Stage 3 restrictions are able to be removed due to heavy rainfall that has increased the water level at Lake Lavon by more than 10 feet since Jan. 1.

The creation of the "New Normal" conservation plan came following a recommendation from the North Texas Municipal Water District (NTMWD), which supplies Richardson with water. Last year, the NTMWD gave guidance that all member cities should adopt a new water conservation plan that would maximize the number of watering days during normal conditions to no more than twice a week. The new plan was set to go into effect once lakes reached sufficient levels.

Richardson's new outdoor watering schedule allows for irrigation at even addresses on Tuesdays and Saturdays and at odd addresses on Wednesdays and Sundays. Watering is still prohibited during the hours of 10 a.m. to 6 p.m. and when it is raining. Additional watering of landscapes and lawns with shutoff nozzle, drip irrigation and soaker hose any day of the week at any time. Residents are encouraged to water only as much as needed.

	May 2015						June 2015																							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20										
Water days for even numbered addresses (ending in 2, 4, 6, 8, 0)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

Water days for odd numbered addresses (ending in 1, 3, 5, 7, 9)
www.cor.net/WaterConservation 972-744-4220

Keep Your Irrigation In Manual Mode

- In conjunction with other NTMWD Cities, Richardson is asking its water customers to evaluate ground moisture and water only when needed
- Customers are encouraged to turn their irrigation system off and only water when their moisture meter reads “Dry”
- Moisture meters are available from the City as part of the Outdoor Water Conservation Kits for \$5



watermyyard.org

MEETING THE WATER NEEDS OF A GROWING REGION

CLICK



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Bulletin Board

NTMWD to Ease Watering Restrictions Effective May 1st

After almost five years under drought restrictions, district to transition to 2014 Water Conservation Plan and allow twice per week watering, if needed. For now, consumers are urged to keep automatic sprinkler systems off and run on manual mode when necessary

April 10, 2015 - North Texas Municipal Water District (NTMWD) water supply reservoirs have reached sufficient levels and capacities to allow the District to ease watering restrictions earlier than previously planned. Beginning May 1, 2015, NTMWD will terminate all drought stages and will implement its Water Conservation Plan that limits landscape watering to no more than two days per week, and only if needed. This action is being implemented in accordance with State and District guidelines.

While the drought has not officially ended, runoff from recent rains helped increase the levels of both Lavon Lake and Chapman Lake, key water supplies for the district. The increasing lake levels along with the resumption of using water from Lake Texoma, the circumstances that caused the initiation of drought stages no longer prevail. Even with termination of drought contingency stages, NTMWD Executive Director Tom Kula recommends that consumers continue to keep their sprinklers off and use the manual mode to irrigate, only if needed.

Customers are encouraged to sign up for WaterMyYard.org which provides weekly updates regarding how much and when to water your lawn. All water users need to check with their city or water provider to determine when outdoor watering is allowed and what other conditions apply. Read entire [press release](#).

Reservoir Elevations as of April 19, 2015

Supply Reservoir	Conservation Pool Elevation	Current Elevation (msl)	Down	Provides % of NTMWD Supply
Lavon Lake	492.00'	488.18'	-2.82'	30%
Jim Chapman Lake	440.00'	438.16'	-1.84"	15%
Lake Tawakoni	437.50'	431.43'	-6.07'	8%
Lake Texoma	617.00'	614.93'	-2.07'	28%

WATER PLANNING



Reservoir Levels

TWDB | USGS

Report Water Waste



What's Your



How much do I need to water today?

Sign up for personalized weekly emails on how much you may need to water your lawn based on local weather data.

www.WaterMyYard.org

WaterMyYard

Login

A HEALTHY LANDSCAPE ACTUALLY REQUIRES LESS WATER THAN YOU MAY THINK. The "Water My Yard" program has been established as a tool to assist you in determining an adequate amount of supplemental water that is needed to maintain healthy grass.

It only takes three short steps to begin receiving a weekly email to know how much water your landscape actually requires based on local weather conditions - effective rainfall, solar radiation, relative humidity and wind.

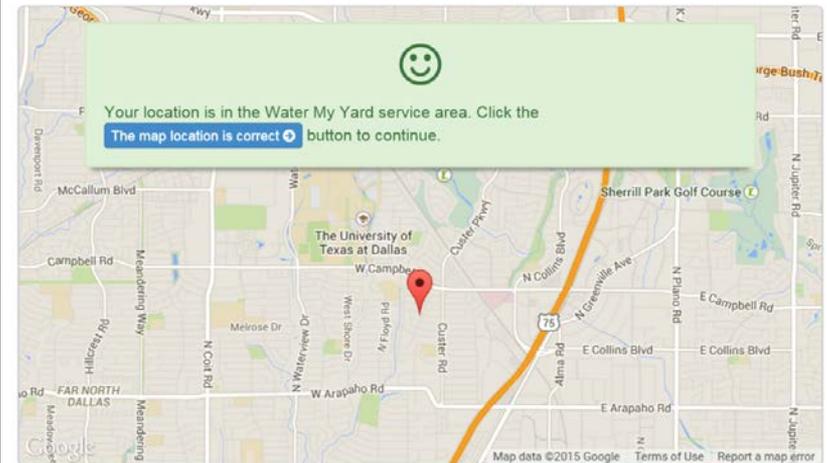
Let's get started!

Step 1.) Where you will be irrigating?

Based on your IP address

Note: this is not very accurate

YOU ARE HERE ↓



Your location is in the Water My Yard service area. Click the "The map location is correct" button to continue.



The map location is correct

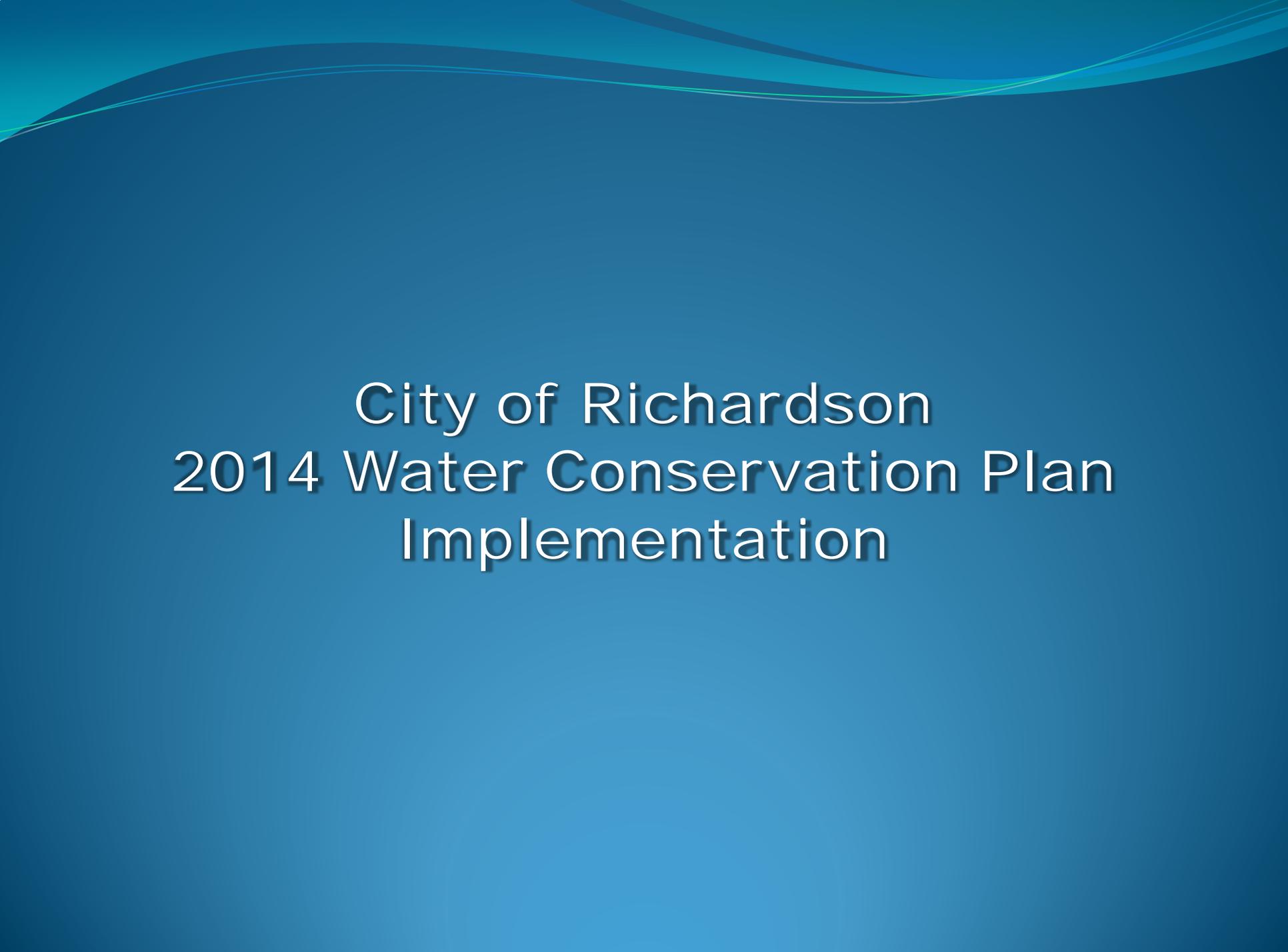
Pinpoint your location



NTMWD Services

To view more information about the NTMWD system services, click the system name below:

[Water](#) | [Wastewater](#) | [Solid Waste](#)



City of Richardson
2014 Water Conservation Plan
Implementation