Town of Chino Valley

MEETING NOTICE
TOWN COUNCIL

STUDY SESSION
Thursday, March 21, 2013
6:00 P.M.

Council Chambers
202 N. State Route 89
Chino Valley, Arizona

AGENDA

1) CALL TO ORDER; ROLL CALL

2) Presentation of the concept to extend water and sewer systems from the vicinity of Road 3 1/2 North and Highway 89 to approximately 1,000' north of the future alignment of Road 5 South. (Ron Grittman, Town Engineer)

3) ADJOURNMENT

Dated this 14th day of March, 2013.

By: ***Jami C. Lewis, Town Clerk***

The Town of Chino Valley endeavors to make all public meetings accessible to persons with disabilities. Please call 636-2646 (voice) or 636-1787 (TDD) 48 hours prior to the meeting to request a reasonable accommodation to participate in this meeting. Supporting documentation and staff reports furnished to the Council with this agenda are available for review on the Town website at http://www.chinoaz.net/clerk/townagenda.shtml, and in the Public Library and Town Clerk's Office.

CERTIFICATION OF POSTING

The undersigned hereby certifies that a copy of this notice was duly posted at Chino Valley South Campus, Chino Valley Post Office, and Chino Valley North Campus in accordance with the statement filed by the Town Council with the Town Clerk.

Date:_____ Time:_____ By:_____
Jami C. Lewis, Town Clerk

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TOWN OF CHINO VALLEY
COUNCIL AGENDA ITEM STAFF REPORT

Town Council Study Session **Item No. 2.**

Meeting Date:	03/21/2013
Contact Person:	Ron Grittman, Town Engineer
	Phone: 928-636-2646 x-1223
Department:	Public Works
Item Type:	Presentation Only
Estimated length of Staff Presentation:	30 minutes
Physical location of item:	Highway 89 between Road 3 1/2 North and approximately 1,000' north of Road 5 South

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Information

AGENDA ITEM TITLE:

Presentation of the concept to extend water and sewer systems from the vicinity of Road 3 1/2 North and Highway 89 to approximately 1,000' north of the future alignment of Road 5 South. (Ron Grittman, Town Engineer)

SITUATION & ANALYSIS:

In November 2012 Lyon Engineering completed a study to develop a conceptual water and sewer system along Highway 89 through what has been called the "Commercial Corridor." Because of the location of the sewer system lift station, the most northerly region that can be serviced by a gravity sewer system is approximately Road 3½ North.

We attempted to create areas of the Town where the water and sewer systems are capable of being pursued independently. This means that the utility system from one area to another is not dependent upon the adjacent area. The attached map shows that the Highway 89 corridor is broken down into 6 regions. Area 1 extends from north of Road 3 ½ North to Perkinsville Road. Area 2 extends from Perkinsville Road to Road 2 North. Area 3 extends from Road 2 North to north of Center Street. Area 4 extends from Center Street to Road 2 South. Area 5 extends from Road 2 South to Road 4 South/Outerloop Road. Area 6 extends from Road 4 South/Outerloop Road to approximately 1,000' north of the future alignment of Road 5 South. Because of the northern water and sewer requirements, Areas 5 and 6 require that Area 4 be constructed simultaneously.

The map depicts an overall length of pipe required to service each area for their respective water/sewer system. This approach to a conceptual design results in very accurate cost

estimates. Since the cost of most water and sewer systems is in the trench, the total lineal footage of water and sewer pipes necessary to service each and every commercial parcel will result in very good cost estimates. The cost estimates for each area are shown in the attached spread sheet and the attached maps depict the six areas.

A PowerPoint will be presented at the study session to better explain the maps and funding alternatives.

Attachments

Preliminary Engineers Cost Estimate

Future Water/Sewer Area Maps

Preliminary Engineers Cost Estimate
Chino Valley Water & Sewer Area Maps Project

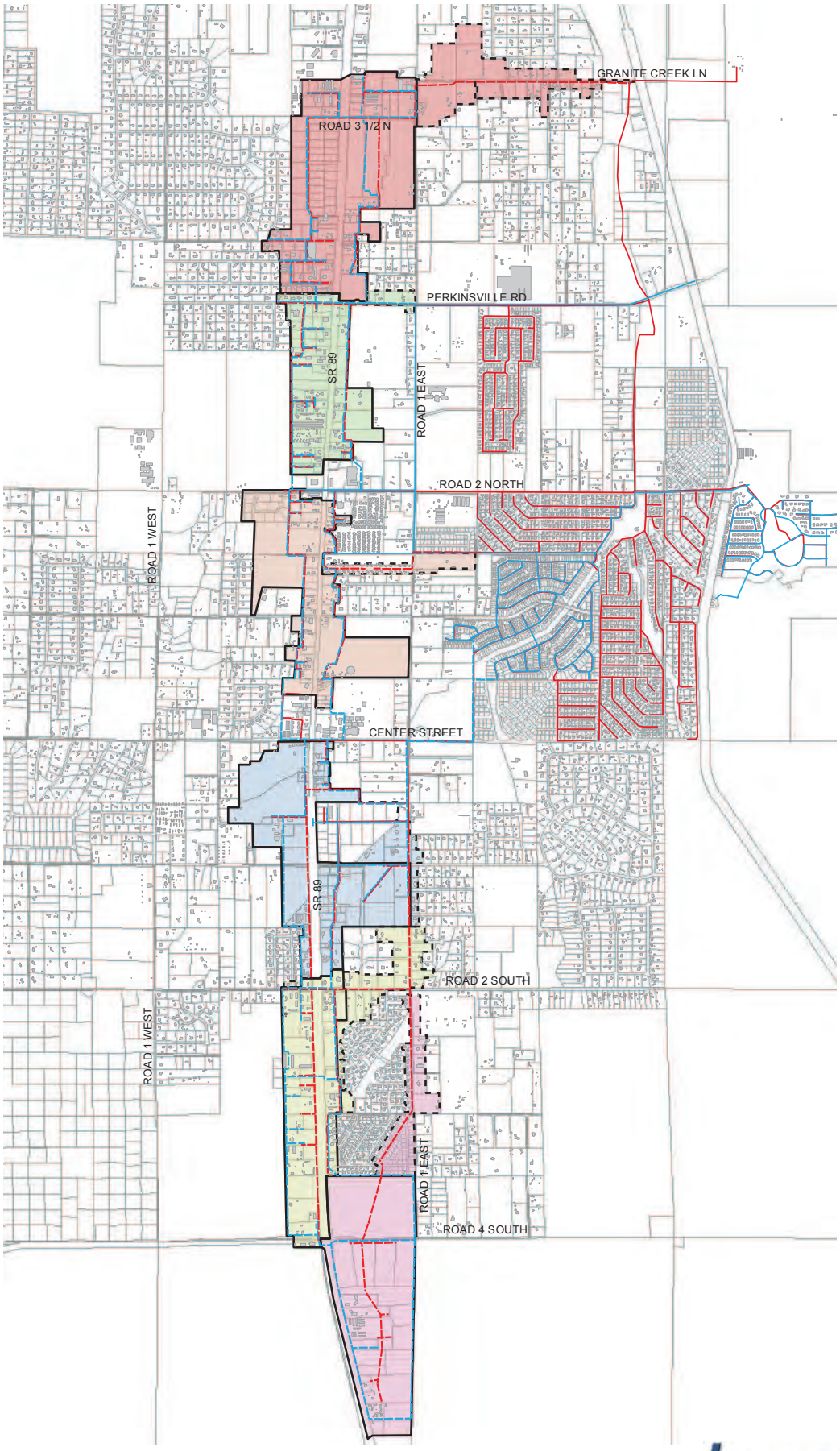
				Area 1		Area 2		Area 3		Area 4		Area 5		Area 6	
Item	Description	Unit Cost	Unit	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total	Quantity	Total
1	Mobilization	$75,000.00	LS	1	$ 75,000	1	$ 75,000	1	$ 75,000	1	$ 75,000	1	$ 75,000	1	$ 75,000
2	Sawcut, Remove and Replace 24' Wide Ex. Pavem	$350.00	LF	1,514	$ 529,900	1,228	$ 429,800	540	$ 189,000	1,227	$ 429,450	2,154	$ 753,900	838	$ 293,300
3	Replace Chip Seal Roadway (assume 24' full road v	$25.50	LF	5,328	$ 135,864	2,150	$ 54,825	1,739	$ 44,345	4,303	$ 109,727	1,780	$ 45,390	2,694	$ 68,697
4	60" Diamater Manhole (Average 1 per 300 lf sewer)	$5,000.00	EA	72	$ 357,850	45	$ 226,017	53	$ 264,950	48	$ 240,183	50	$ 252,017	36	$ 180,617
5	18" PVC Sewer Main	$75.00	LF	0	$ -	0	$ -	0	$ -	2,227	$ 167,025	1,326	$ 99,450	5,676	$ 425,700
6	12" PVC Sewer Main	$50.00	LF	13,339	$ 666,950	6,631	$ 331,550	10,234	$ 511,700	6,442	$ 322,100	10,721	$ 536,050	3,519	$ 175,950
7	8" PVC Sewer Main	$35.00	LF	8,132	$ 284,620	6,930	$ 242,550	5,663	$ 198,205	5,742	$ 200,970	3,074	$ 107,590	1,642	$ 57,470
8	6" Sewer Service (Existing Building on Occupied Pa	$2,000.00	EA	66	$ 132,000	50	$ 100,000	42	$ 84,000	38	$ 76,000	50	$ 100,000	29	$ 58,000
	Septic Tank Abandonment	$2,500.00	EA	66	$ 165,000	50	$ 125,000	42	$ 105,000	38	$ 95,000	50	$ 125,000	29	$ 72,500
9					$ -		$ -		$ -		$ -		$ -		$ -
10	18" PVC Water Main	$120.00	LF	0	$ -	0	$ -	0	$ -	0	$ -	1,453	$ 174,360	0	$ -
11	12" PVC Water Main	$75.00	LF	15,092	$ 1,131,900	11,360	$ 852,000	14,808	$ 1,110,600	21,730	$ 1,629,750	14,707	$ 1,103,025	8,540	$ 640,500
12	8" PVC Water Main	$55.00	LF	5,129	$ 282,095	3,410	$ 187,550	1,650	$ 90,750	3,078	$ 169,290	3,061	$ 168,355	547	$ 30,085
13	18" Butterfly Valve, Box & Cover	$5,610.00	EA	0	$ -	0	$ -	0	$ -	0	$ -	2	$ 11,220	0	$ -
14	12" Gate Valve, Box & Cover	$5,100.00	EA		$ -		$ -		$ -		$ -		$ -		$ -
15	8" Gate Valve, Box & Cover	$2,000.00	EA		$ -		$ -		$ -		$ -		$ -		$ -
16	South Zone Booster Station	$250,000.00	EA		$ -		$ -		$ -		$ -	1	$ 250,000		$ -
17	South Zone Tank (200,000 gallons)	$200,000.00	EA		$ -		$ -		$ -		$ -	1	$ 200,000		$ -
18	Fire Hydrants (Average 1 per 400 lf water)	$6,500.00	EA	54	$ 348,904	34	$ 220,366	40	$ 258,326	36	$ 234,179	38	$ 245,716	27	$ 176,101
19	2" Water Meter (Existing Building on Occupied Parc	$6,000.00	EA	66	$ 396,000	50	$ 300,000	42	$ 252,000	38	$ 228,000	50	$ 300,000	29	$ 174,000
20					$ -		$ -		$ -		$ -		$ -		$ -
21	24" Steel Casing Bore under SR89	$500.00	LF	600	$ 300,000	400	$ 200,000	120	$ 60,000	460	$ 230,000	660	$ 330,000	0	$ -
22					$ -		$ -		$ -		$ -		$ -		$ -
23	10% Engineering				$ 480,608		$ 334,466		$ 324,388		$ 420,667		$ 487,707		$ 242,792
24	15% Contingency				$ 793,004		$ 551,869		$ 535,239		$ 694,101		$ 804,717		$ 400,607
	Estimated Cost:				**$6,079,695**		**$ 4,230,992**		**$ 4,103,503**		**$ 5,321,442**		**$ 6,169,497**		**$ 3,071,319**

TOWN OF CHINO VALLEY FUTURE WATER-SEWER OVERALL AREA MAP

LEGEND

- PROPOSED WATER
- EXISTING WATER
- PROPOSED SEWER
- EXISTING SEWER
- IMPROVEMENT DISTRICT BOUNDARY
- SEWER AND/OR WATER IMPROVEMENTS BOUNDARY

- Area 1
- Area 2
- Area 3
- Area 4
- Area 5
- Area 6



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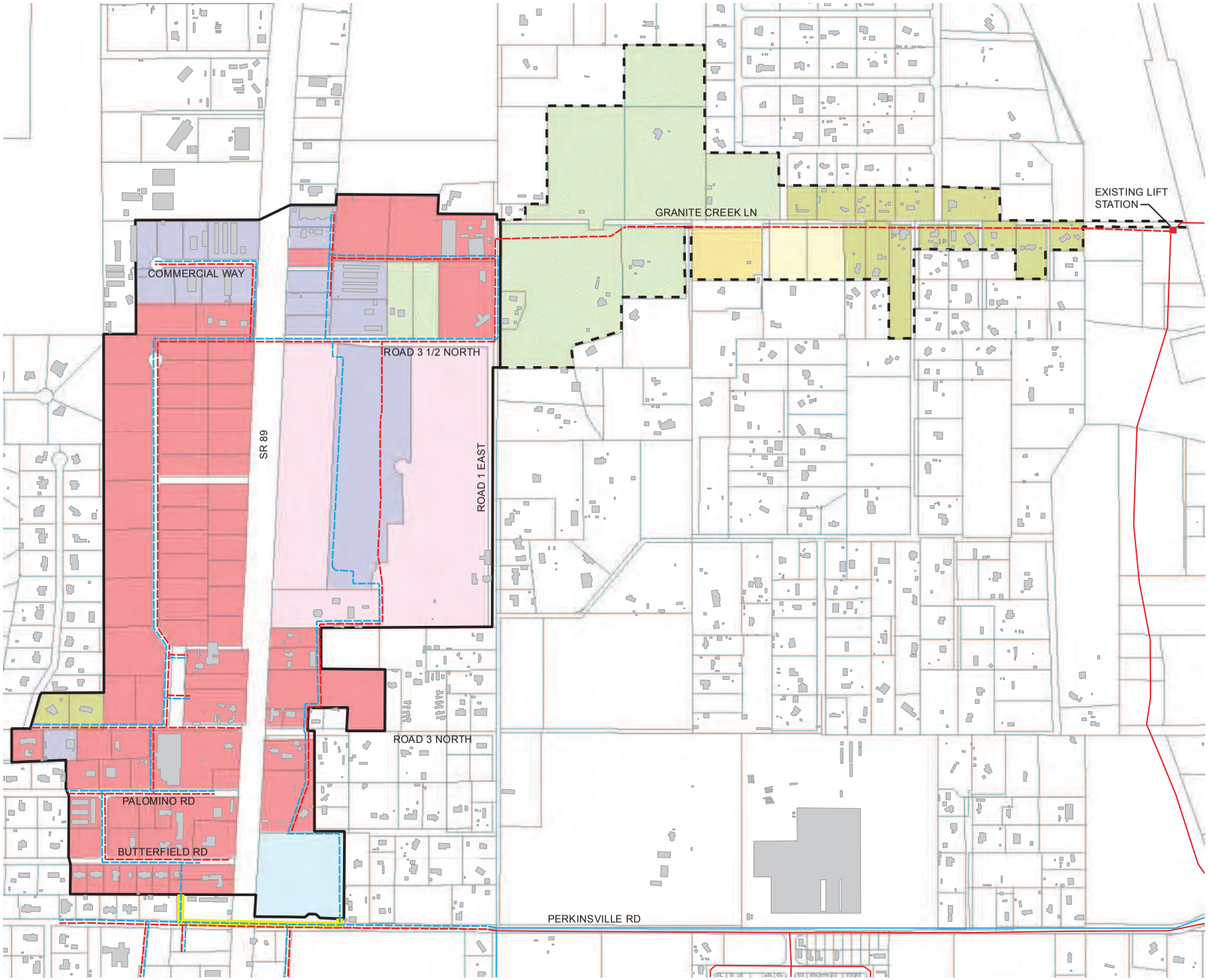

TOWN OF CHINO VALLEY FUTURE WATER-SEWER AREA MAPS

EXHIBIT 1

LEGEND

- IMPROVEMENT DISTRICT BOUNDARY
- SEWER AND/OR WATER IMPROVEMENTS BOUNDARY
- REQUIRED WATER MAIN LOOP
- PROPOSED WATER
- EXISTING WATER
- PROPOSED SEWER
- EXISTING SEWER

NORTH

0 0.05 0.1 0.2 Miles

SERVING WATER PARCELS

Area 1	Occupied		Vacant	
Zone	Parcels	Acreage	Parcels	Acreage
AR-5	1	2.06	1	2.06
CH	10	13.62	7	23.77
CL	30	47.33	43	65.07
CL/AR-5	2	30.78	1	13.78
PL	0	0.00	1	7.75
SR-1	2	2.34	0	0.00
Totals:	**45**	**96.13**	**53**	**112.43**

SERVING SEWER PARCELS

Area 1	Occupied		Vacant	
Zone	Parcels	Acreage	Parcels	Acreage
AR-5	7	47.39	2	7.15
CH	10	13.62	7	23.77
CL	30	47.33	43	65.07
CL/AR-5	2	30.78	1	13.78
PL	0	0.00	1	7.75
SR-1	16	20.22	0	0.00
SR-2	0	0.00	2	4.37
SR-2.5	1	3.80	0	0.00
Totals:	**66**	**163.14**	**56**	**121.89**

TOWN OF CHINO VALLEY ARIZONA

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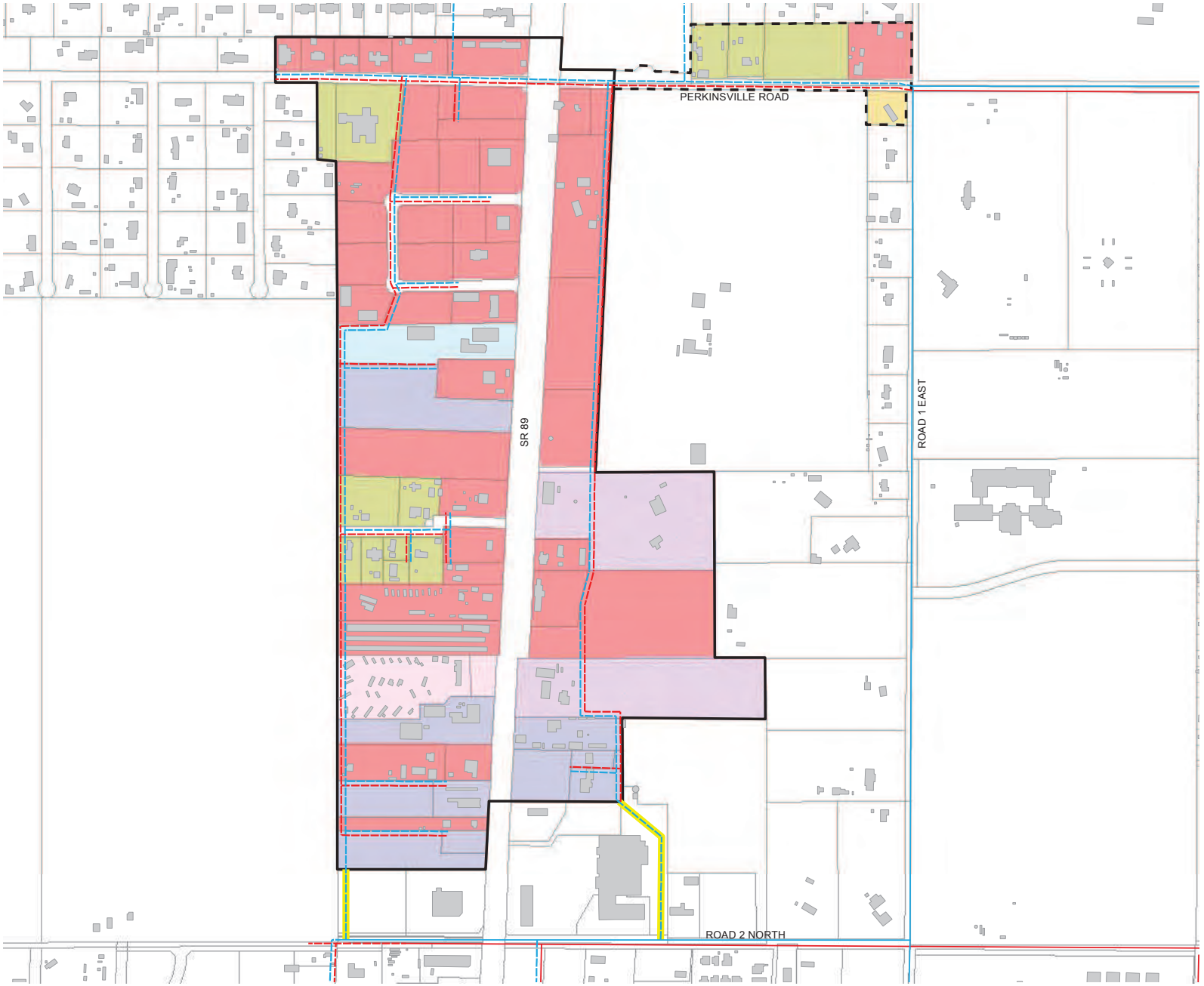

TOWN OF CHINO VALLEY FUTURE WATER-SEWER AREA MAPS

EXHIBIT 2

LEGEND

- IMPROVEMENT DISTRICT BOUNDARY
- SEWER AND/OR WATER IMPROVEMENTS BOUNDARY
- REQUIRED WATER MAIN LOOP
- PROPOSED WATER
- EXISTING WATER
- PROPOSED SEWER
- EXISTING SEWER

NORTH

0 0.05 0.1 0.2 Miles

SERVING WATER PARCELS

Area 2	Occupied		Vacant	
Zone	Parcels	Acreage	Parcels	Acreage
CH	5	6.69	5	10.43
CH/AR-5	2	15.02	0	0.00
CL	29	37.45	13	21.13
CL/AR-5	1	3.67	1	0.50
PL	1	3.26	0	0.00
SR-1	8	7.20	0	0.00
Totals:	**46**	**73.29**	**19**	**32.06**

SERVING SEWER PARCELS

Area 2	Occupied		Vacant	
Zone	Parcels	Acreage	Parcels	Acreage
CH	5	6.69	5	10.43
CH/AR-5	2	15.02	0	0.00
CL	30	39.25	13	21.13
CL/AR-5	1	3.67	1	0.50
PL	1	3.26	0	0.00
SR-1	10	9.09	1	2.30
SR-2.5	1	0.66	0	0.00
Totals:	**50**	**77.64**	**20**	**34.36**

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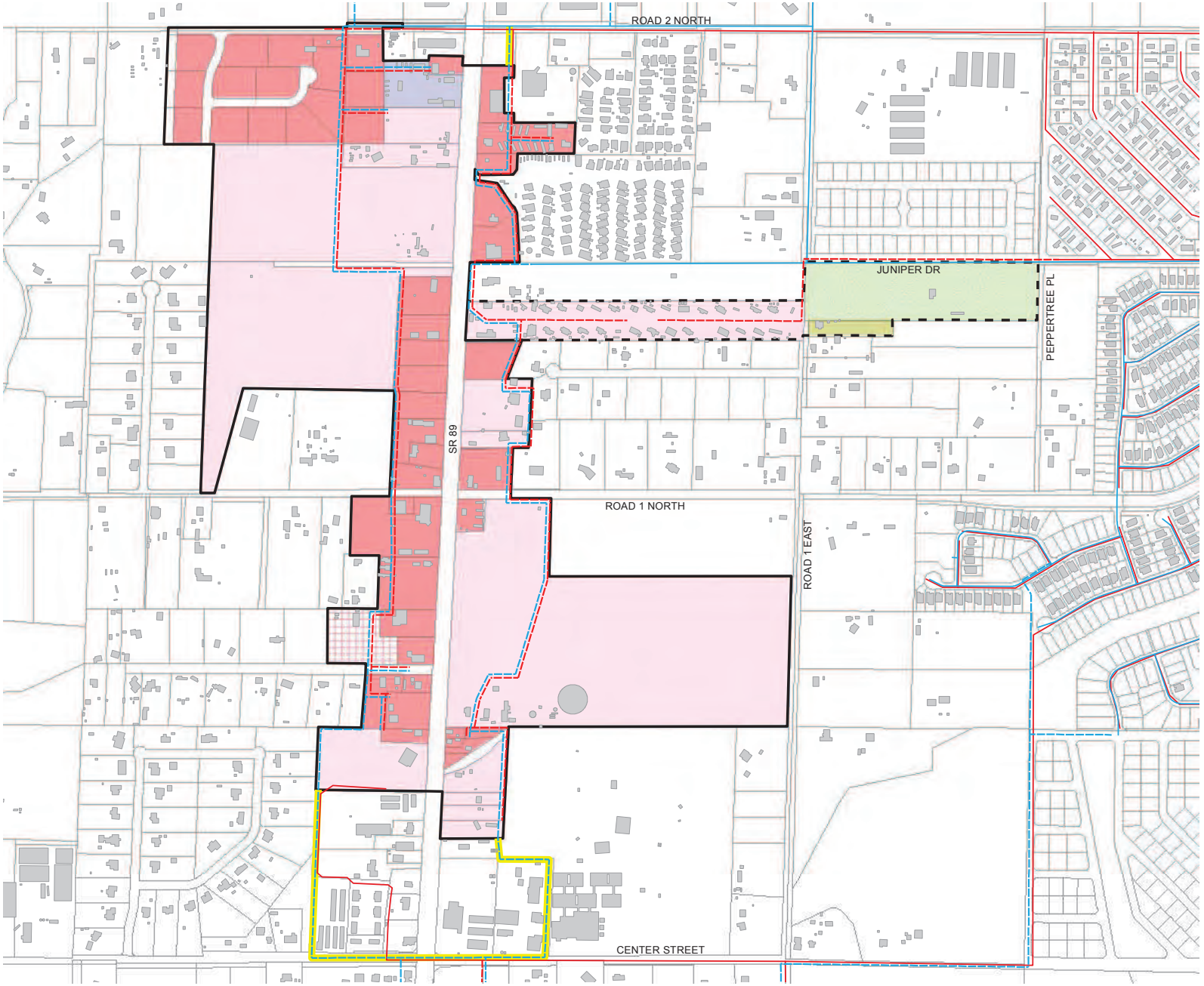

TOWN OF CHINO VALLEY FUTURE WATER-SEWER AREA MAPS

EXHIBIT 3

LEGEND

- IMPROVEMENT DISTRICT BOUNDARY
- SEWER AND/OR WATER IMPROVEMENTS BOUNDARY
- REQUIRED WATER MAIN LOOP
- PROPOSED WATER
- EXISTING WATER
- PROPOSED SEWER
- EXISTING SEWER

NORTH

0 0.05 0.1 0.2 Miles

SERVING WATER PARCELS

Area 3	Occupied		Vacant	
Zone	Parcels	Acreage	Parcels	Acreage
CH	1	2.36	0	0.00
CL	26	26.95	21	19.42
CL/AR-5	11	75.78	2	21.87
CL/SR-1	1	2.51	0	0.00
Totals:	**39**	**107.60**	**23**	**41.29**

SERVING SEWER PARCELS

Area 3	Occupied		Vacant	
Zone	Parcels	Acreage	Parcels	Acreage
AR-5	1	10.01	0	0.00
CH	1	2.36	0	0.00
CL	26	26.95	21	19.42
CL/AR-5	12	85.52	2	21.87
CL/SR-1	1	2.51	0	0.00
SR-1	1	0.99	0	0.00
Totals:	**42**	**128.34**	**23**	**41.29**

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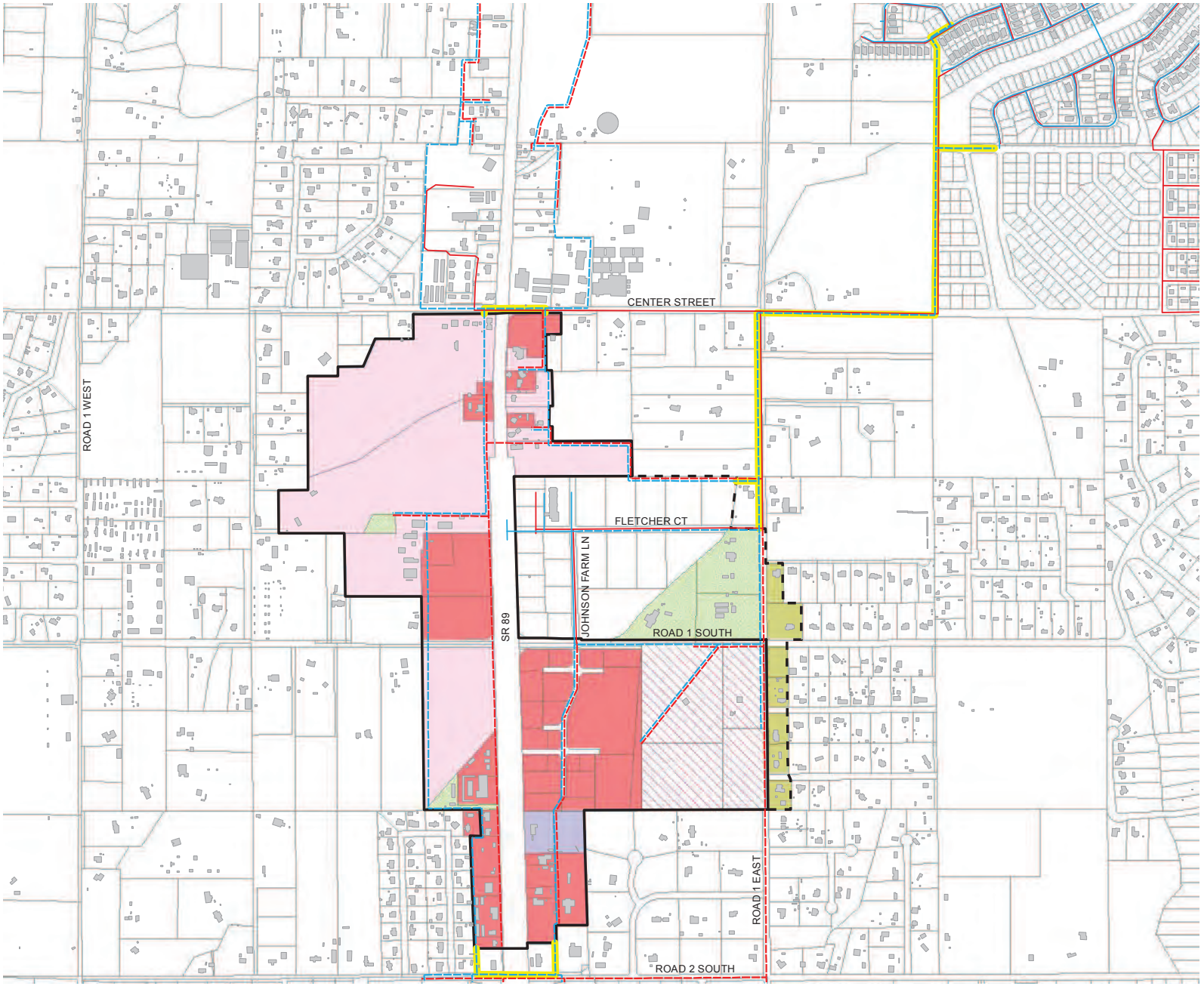

TOWN OF CHINO VALLEY FUTURE WATER-SEWER AREA MAPS

EXHIBIT 4

LEGEND

- IMPROVEMENT DISTRICT BOUNDARY
- SEWER AND/OR WATER IMPROVEMENTS BOUNDARY
- REQUIRED WATER MAIN LOOP
- PROPOSED WATER
- EXISTING WATER
- PROPOSED SEWER
- EXISTING SEWER

NORTH

0 0.075 0.15 0.3 Miles

SERVING WATER PARCELS

Area 4	Occupied		Vacant	
Zone	Parcels	Acreage	Parcels	Acreage
AR-5	1	1.24	1	0.76
CH	1	1.81	1	1.88
CL	17	18.67	26	39.04
CL/AR-5	8	68.30	1	12.70
I/CH	2	16.63	2	12.82
Totals:	**29**	**106.65**	**31**	**67.20**

SERVING SEWER PARCELS

Area 4	Occupied		Vacant	
Zone	Parcels	Acreage	Parcels	Acreage
AR-5	4	15.37	1	0.76
CH	1	1.81	1	1.88
CL	17	18.67	26	39.04
CL/AR-5	8	68.30	1	12.70
I/CH	2	16.63	2	12.82
SR-1	6	6.35	1	0.87
Totals:	**38**	**127.13**	**32**	**68.07**

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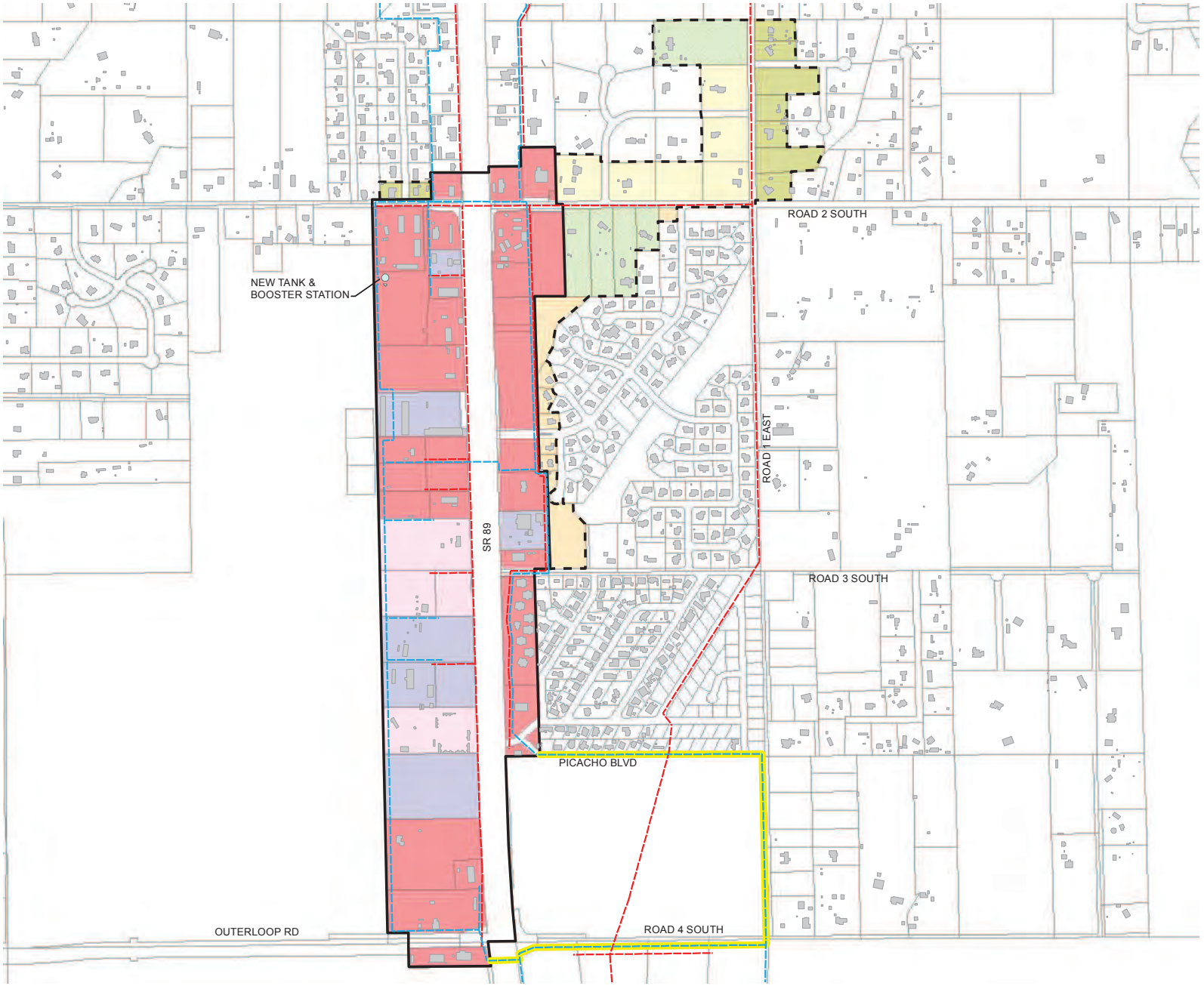

TOWN OF CHINO VALLEY FUTURE WATER-SEWER AREA MAPS

EXHIBIT 5

LEGEND

- IMPROVEMENT DISTRICT BOUNDARY
- SEWER AND/OR WATER IMPROVEMENTS BOUNDARY
- REQUIRED WATER MAIN LOOP
- PROPOSED WATER
- EXISTING WATER
- PROPOSED SEWER
- EXISTING SEWER

NORTH

0 0.05 0.1 0.2 Miles

SERVING WATER PARCELS

Area 5	Occupied		Vacant	
Zone	Parcels	Acreage	Parcels	Acreage
CH	5	15.78	2	9.39
CL	20	46.98	12	240.59
CL/AR-5	3	13.64	1	1.98
Totals:	**28**	**76.40**	**15**	**251.96**

SERVING SEWER PARCELS

Area 5	Occupied		Vacant	
Zone	Parcels	Acreage	Parcels	Acreage
AR-5	5	13.68	0	0.00
CH	5	15.78	2	9.39
CL	20	46.98	12	240.59
CL/AR-5	3	13.64	1	1.98
MR-1/MHP-4	5	1.96	3	3.17
SR-1	7	6.13	2	3.92
SR-2	5	11.73	1	2.14
Totals:	**50**	**109.90**	**21**	**261.19**

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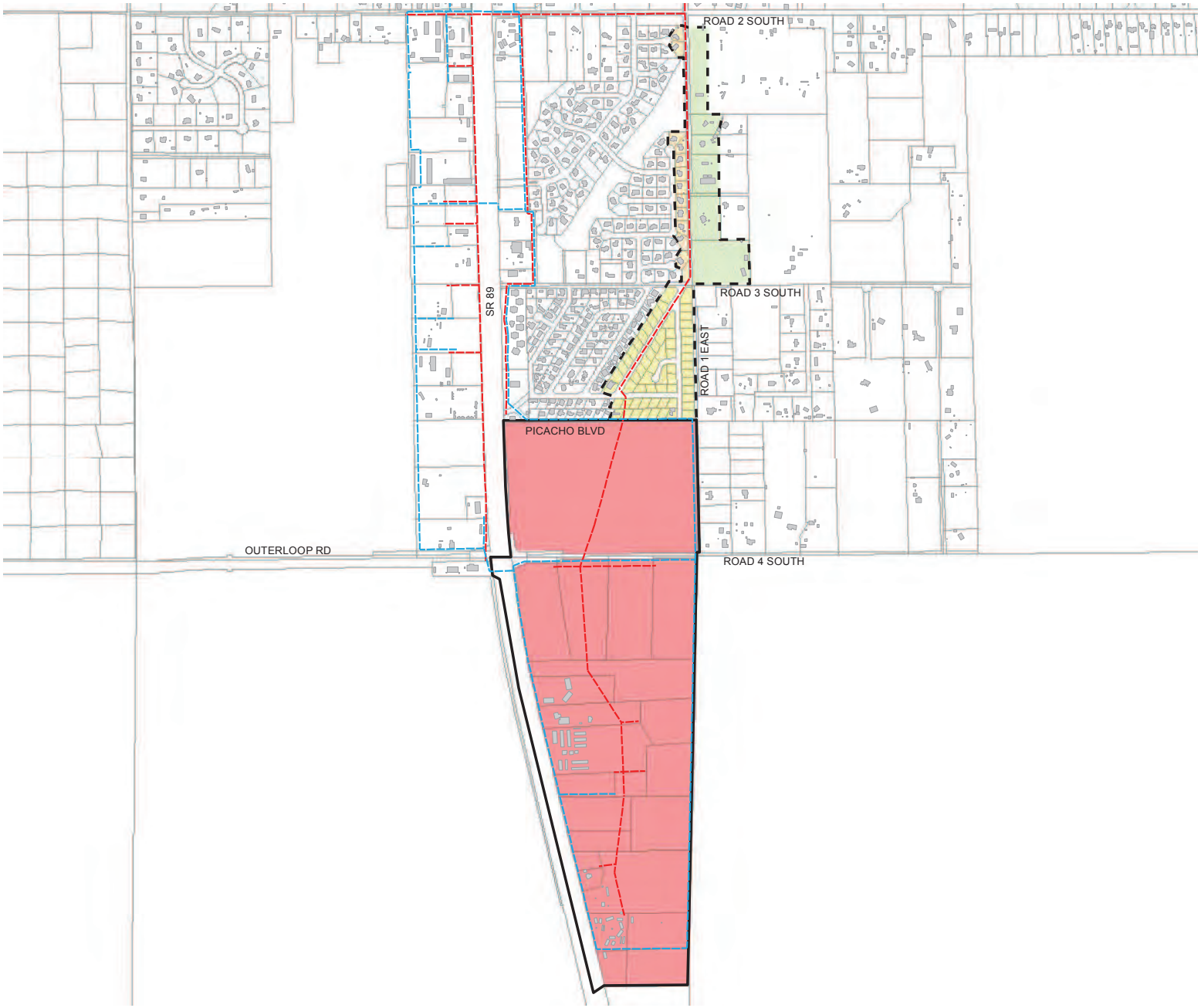

TOWN OF CHINO VALLEY FUTURE WATER-SEWER AREA MAPS

EXHIBIT 6

LEGEND

- IMPROVEMENT DISTRICT BOUNDARY
- SEWER AND/OR WATER IMPROVEMENTS BOUNDARY
- REQUIRED WATER MAIN LOOP
- PROPOSED WATER
- EXISTING WATER
- PROPOSED SEWER
- EXISTING SEWER

NORTH

0 0.05 0.1 0.2 Miles

SERVING WATER PARCELS

Area 6	Occupied		Vacant	
Zone	Parcels	Acreage	Parcels	Acreage
CL	8	44.02	15	138.38
Totals:	**8**	**44.02**	**15**	**138.38**

SERVING SEWER PARCELS

Area 6	Occupied		Vacant	
Zone	Parcels	Acreage	Parcels	Acreage
AR-5	6	16.82	0	0.00
CL	8	44.02	15	138.38
MR-1/MHP-4	12	4.25	1	0.25
SR-0.16	3	0.74	59	13.49
Totals:	**29**	**65.83**	**75**	**152.12**

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