

MEMORANDUM

File 160.8382
310. "M", "N",
"O", "II₁"

BOARD MEETING: October 28, 2015
AGENDA ITEM NO.: 10

FROM: Peter Sanchez *PS*
District Engineer

SUBJECT: Adoption of Resolution of Support of Reclaimed Irrigation System Project, WaterSMART Grant, City of Fresno

Summary

Staff seeks authorization to apply and pursue, in partnership with the City of Fresno, a U.S. Bureau of Reclamation WaterSMART grant in the amount of \$300,000 to convert four (4) landscaped basins to reclaimed irrigation systems. The four (4) basins are Basins "M", "N", "O", and "II₁" and are identified on Exhibit No. 1. Currently, these basins utilize City of Fresno potable water. The District proposes to install pumps and utilize basin water (combination of imported surface water and storm water) stored in the basins to irrigate the landscaped areas. WaterSMART grant eligibility rules require that primary applicants be water purveyors or entities with water rights. Because the District is neither a water purveyor or an entity with water rights, the City of Fresno has agreed to act as the primary applicant for the grant. The District will provide the required information for the grant proposal and application.

The WaterSMART grant is an annual federal funding grant administered by the U.S. Bureau of Reclamation that provides a 50/50 cost share for projects that will conserve and use water more efficiently. Total project cost is estimated to be \$600,000. The WaterSMART grant program has a funding threshold of \$300,000 for small projects and \$1,000,000 for large projects. The City of Fresno successfully received a \$1,000,000 grant last year for their Friant-Kern Pipeline Project. That project will bring surface water directly from the Friant-Kern Canal in a 4.6 mile long pipeline to the Northeast Surface Water Treatment Facility. Currently the Treatment Facility obtains surface water through 47 miles of lined and unlined canals.

The grant schedule has not been announced, but assuming the schedule is similar to prior year's schedules, staff anticipates an announcement will be made in the next few weeks, with a potential application deadline in mid-January 2016.

Recommendation

It is recommended that the Board of Directors adopt a resolution supporting the City of Fresno's application for a WaterSMART grant and authorize staff to pursue WaterSMART grant funds, in partnership with the City of Fresno as the primary applicant.

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Discussion

The proposed project for the WaterSMART grant application will consist of constructing reclaim irrigation pumps at four (4) basins within the City of Fresno for the purpose of conserving potable water and lessening groundwater extraction from the local aquifer. The project will include the installation of a vertical turbine pump and filter to utilize basin water in the existing irrigation system. The existing City potable water connection will remain as a backup water source for rare occasions when the basin is being cleaned or has insufficient basin water available to irrigate. The District anticipates a reduction of 128 ac-ft of potable water use and related cost savings in excess of \$50,000 annually if the four (4) basins were converted to reclaimed irrigation systems.

Discussions between the City of Fresno and the District have led to an initial agreement to submit a joint project. Should the District Board authorize District staff to submit an application, City staff will submit a request for authorization to the Fresno City Council to submit a WaterSMART Grant application. District staff will prepare and assemble the grant proposal and application once the City receives authorization from their Council.

The 2015-2016 Budget includes funding in the amount of \$330,000 for the Basin "M" and Basin "N" reclaim irrigation system projects. This allocation is sufficient to meet the fifty percent (50%) funding match for all four (4) projects. A summary of the project costs is included in Exhibit No. 2.

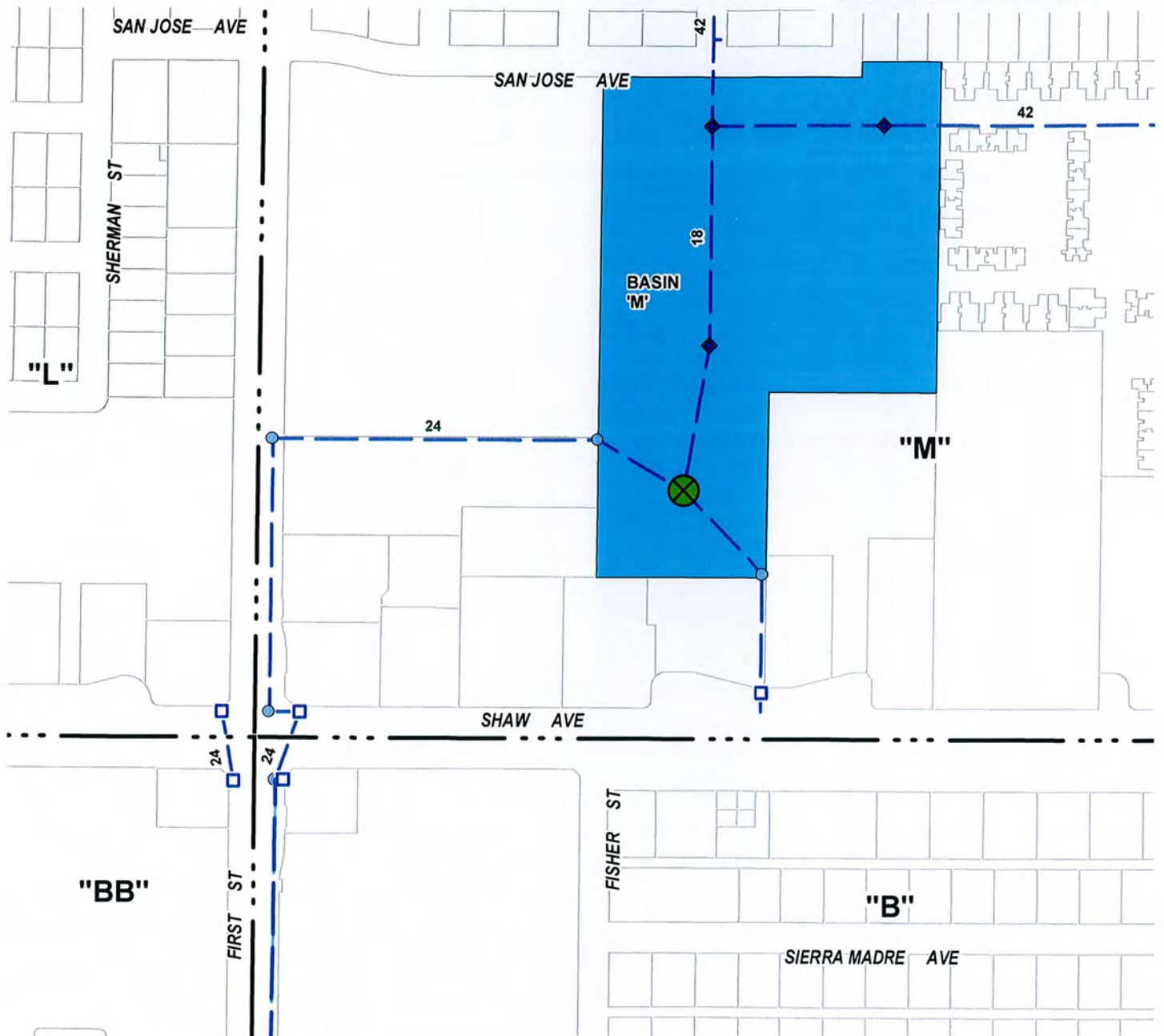


John Santos
Capital Projects Supervisor

JS/lrl

Attachment(s)

NOTE: THIS MAP IS SCHEMATIC. DISTANCES, AMOUNT OF CREDITABLE FACILITIES, AND LOCATION OF INLET BOUNDARIES ARE APPROXIMATE.



LEGEND

-  Reclaimed Water Pump To Be Constructed
-  Existing Facilities
-  Future Facilities
-  Drainage Area Boundary



1" = 300'

**BASIN DUAL PUMP &
RECLAIMED WATER SYSTEM
DRAINAGE AREA "M"**

EXHIBIT NO. 1
Page 1 of 4

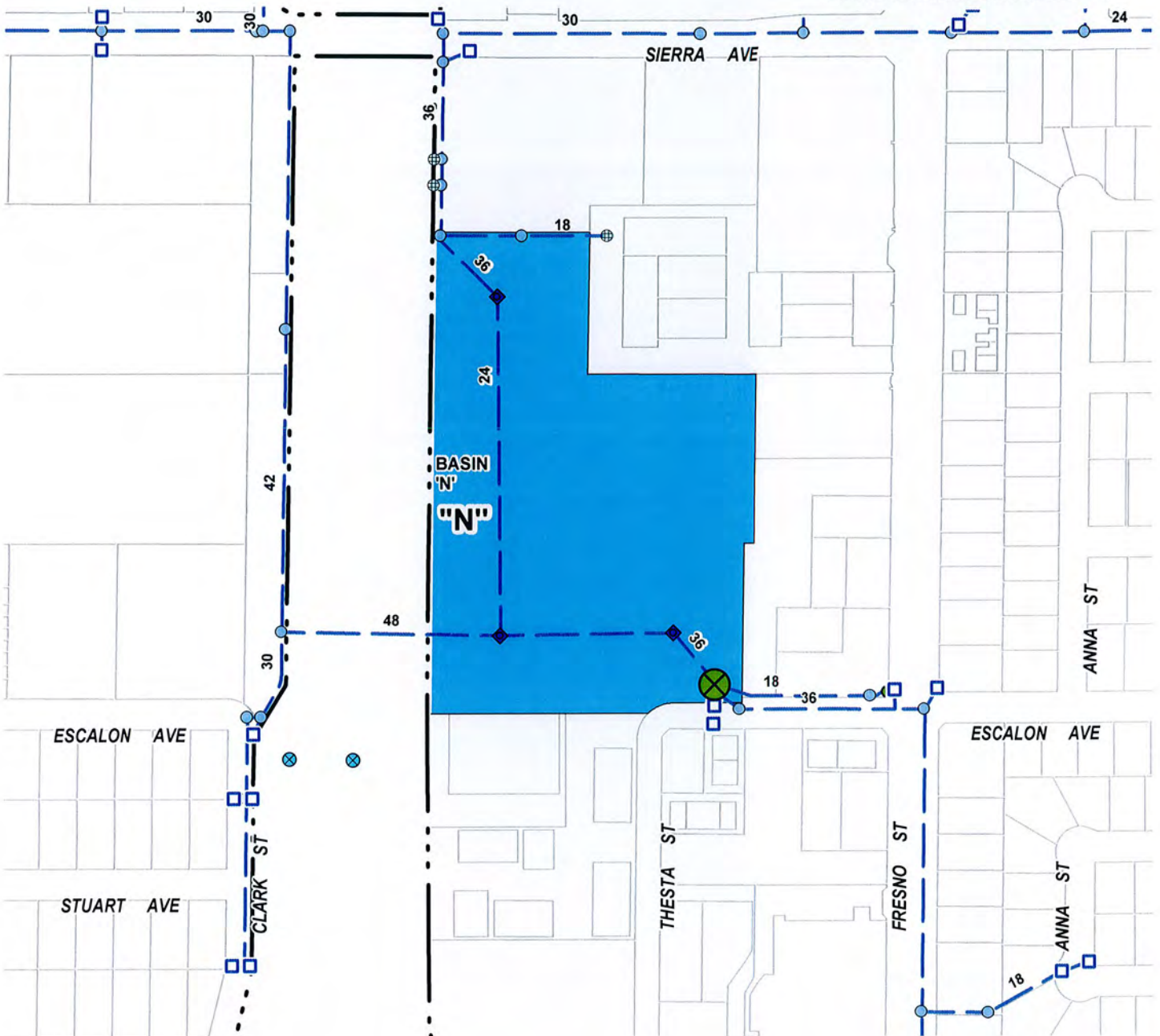


FRESNO METROPOLITAN FLOOD CONTROL DISTRICT

Prepared by: keithr
Date: 10/22/2015

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**NOTE: THIS MAP IS SCHEMATIC.
DISTANCES, AMOUNT OF CREDITABLE
FACILITIES, AND LOCATION OF INLET
BOUNDARIES ARE APPROXIMATE.**



LEGEND

-  Reclaimed Water Pump To Be Constructed
-  Existing Facilities
-  Future Facilities
-  Drainage Area Boundary



RECLAIMED WATER PUMP SYSTEM DRAINAGE AREA "N"

EXHIBIT NO. 1
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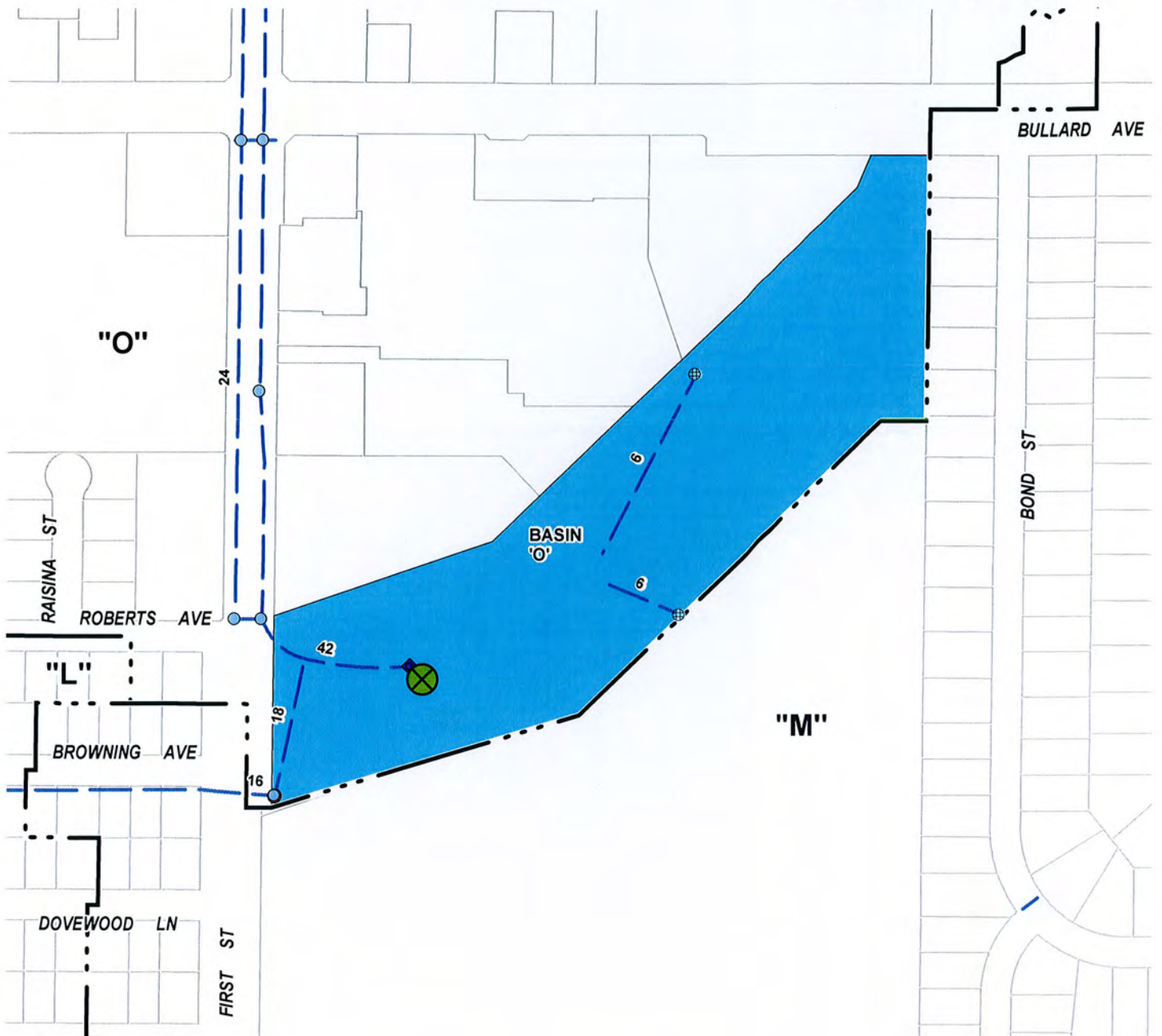


FRESNO METROPOLITAN FLOOD CONTROL DISTRICT

Prepared by: keithr
Date: 10/22/2015

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LEGEND

-  Reclaimed Water Pump To Be Constructed
-  Existing Facilities
-  Future Facilities
-  Drainage Area Boundary



1" = 300'

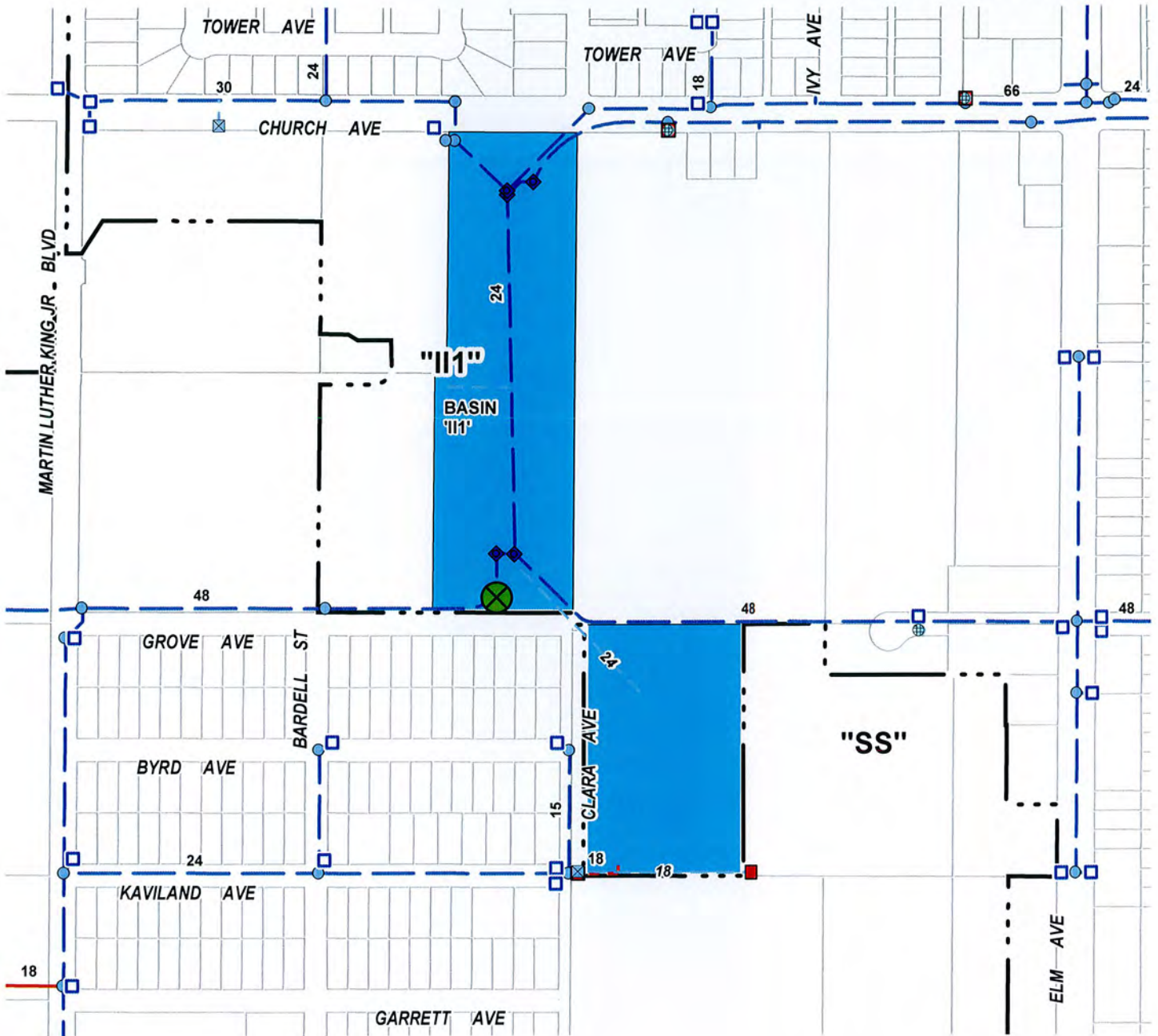
RECLAIMED WATER PUMP SYSTEM DRAINAGE AREA "O"

EXHIBIT NO. 1
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FRESNO METROPOLITAN FLOOD CONTROL DISTRICT

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LEGEND

-  Reclaimed Water Pump To Be Constructed
-  Existing Facilities
-  Future Facilities
-  Drainage Area Boundary



1" = 400'

RECLAIMED WATER PUMP SYSTEM DRAINAGE AREA "II1"

EXHIBIT NO. 1
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FRESNO METROPOLITAN FLOOD CONTROL DISTRICT

FRESNO METROPOLITAN FLOOD CONTROL DISTRICT

PRELIMINARY ESTIMATE OF TOTAL PROJECT COST

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Design/Engineering/Environmental Service Costs					
1	Design Engineering Services - Contract M-21	L.S.	1	\$6,525.00	\$6,525.00
2	Design Engineering Services - Contract N-24	L.S.	1	\$7,000.00	\$7,000.00
3	Design Engineering Services - Contract O-14	L.S.	1	\$7,000.00	\$7,000.00
4	Design Engineering Services - II1	L.S.	1	\$7,000.00	\$7,000.00
Total Design/Engineering/Environmental Service Costs					\$27,525.00
Construction Costs					
5	Contract M-21, Dual Pump and Reclaim	L.S.	1	\$250,000.00	\$250,000.00
6	Contract N-24, Reclaim	L.S.	1	\$80,000.00	\$80,000.00
7	Contract O-14, Reclaim	L.S.	1	\$100,000.00	\$100,000.00
8	Basin II1, Reclaim	L.S.	1	\$80,000.00	\$80,000.00
Total Construction Cost					\$510,000.00
Other Costs					
10	Construction Contracting (0.25% of Construction)	L.S.	1	\$1,275.00	\$1,275.00
11	Construction Administration (5% of Construction)	L.S.	1	\$25,500.00	\$25,500.00
12	Construction Contingency (5% of Construction)	L.S.	1	\$25,500.00	\$25,500.00
13	Project Administration (2% of Construction)	L.S.	1	\$10,200.00	\$10,200.00
Total Other Costs					\$62,475.00
Total Project Cost					\$600,000.00

EXHIBIT NO. 2

RESOLUTION NO. 2015-

**BEFORE THE BOARD OF DIRECTORS OF THE
FRESNO METROPOLITAN FLOOD CONTROL DISTRICT**

**RESOLUTION OF SUPPORT
RECLAIMED IRRIGATION SYSTEM PROJECT**

WHEREAS, the U.S. Bureau of Reclamation has available funds for projects seeking to conserve and use water more efficiently, (WaterSMART grant); and

WHEREAS, no more than \$1,000,000 will be awarded to any one applicant; and

WHEREAS, the City of Fresno (City) and the Fresno Metropolitan Flood Control District (District) wish to apply for a grant identified as the Reclaimed Irrigation System Project; and

WHEREAS, the WaterSMART grant requires a fifty percent (50%) local cost sharing match; and

WHEREAS, the District Board of Directors has allocated sufficient General Fund money to meet the match requirement; and

WHEREAS, the City is a water purveyor and will be the primary applicant on the WaterSMART grant; and

WHEREAS, District staff will prepare and assemble the grant application, and manage the grant project; and

**RESOLUTION NO. 2015-
Page 2 of 2**

WHEREAS, the City, as the primary applicant of the WaterSMART grant, wishes to pursue a \$300,000 grant to offset the estimated project cost of \$600,000 to facilitate construction of reclaim irrigation pumps at Basins “M”, “N”, “O”, and “II₁” within the City of Fresno to use basin water and lessen groundwater extraction from the local aquifer.

NOW, THEREFORE BE IT RESOLVED that the Board of Directors hereby:

- 1) support the City of Fresno’s WaterSMART grant application to fund the Reclaimed Irrigation System Project,
- 2) authorize the Fresno Metropolitan Flood Control District to coordinate with the City of Fresno staff on project execution.

PASSED AND ADOPTED this 28th day of October, 2015 by the following vote, to

wit:

AYES:

NOES:

ABSENT:

ABSTAIN: