

**EXHIBIT 2-A**



**Monterey Peninsula Water Management District  
GRANT PROPOSAL  
For  
Monterey Peninsula Unified School District**

**Turf removal**

Name of Applicant: Monterey Peninsula Unified School District

Invoicing & Contract Name & Contact Information: Brett McFadden, Associate Superintendent of Business Services  
(831) 645-1269 [raltmeyer@mpusd.k12.ca.us](mailto:raltmeyer@mpusd.k12.ca.us)  
700 Pacific St, Monterey, CA 93940 or PO BOX 1031 Monterey CA 93942

Project Manager Name & Contact Information: David Chandler, Coordinator of Renewable Energy and Conservation  
(831) 901-7376 [dchandler@mpusd.k12.ca.us](mailto:dchandler@mpusd.k12.ca.us)

Project Site Addresses: 1.. International School of Monterey  
1720 Yosemite Ave, Seaside, CA 93955

Account: City of Seaside Water: 03-7580-00

Proposed turf removal: **Turf removal 25,067 square feet  
Requesting \$1 per square foot Turf removal incentive.  
\$25,067**

Proposed Projects: MPUSD's water conservation program is dedicated to improving schools landscape and Athletic Fields. This project will take the existing irrigated play field of 50,852 sq. ft. and convert it into a walking track, and multi-play area sized for pinto league baseball, grass volleyball or a U10 soccer. The play area project will remove 21,014 square feet of turf. 4053 square feet in the front of the school will be converted into drought tolerant landscape.

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### **Preliminary to proposed project**

In spring 2014 MPUSD received a grant from MPWMD to install Hydro-point weather trak ET Pro controllers at the Cal Am serviced sites. The grant proposal was met and exceeded by installing all the controllers, as well as eliminating manual and battery operated zones.

In 2014 MPWMD funded a field retrofit and master water conservation Plan for Ord Terrace Elementary. This project has inspired MPUSD to commit to water conservation

landscapes. Ord terrace eliminated 100% of the ornamental turf and replaced it with drought tolerant landscape. Water use has been reduced at Ord Terrace by 63%.

In summer of 2015 MPUSD funded and installed 27 Hydro-point weather trak ET controllers at the City of Seaside and Marina Coast water serviced sites. Making the districts irrigation fully controlled by Smart weather based irrigation controllers

In summer of 2015 MPUSD administration and board approved the use of water utility savings to be used to retrofit our fields irrigation, implement a turf removal plan and set up a turf maintenance program. The MPUSD Energy Program in collaboration with the facilities department has created a six year field retrofit plan and a six year Ornamental Turf removal plan.

In the 2015-16 school year MPUSD is implementing a 5<sup>th</sup> grade Eco- Ambassador program. Throughout the school year all 5<sup>th</sup> grade students will take classes from Return of the Native, Pacific Grove Museum and Monterey Art Council. Part of the goal of this program is to educate the students about water conservation and to create a Native garden with passive and active storm water catchment. The designs for these gardens are inspired by the professional designs funded by the Ord Terrace grant.

In 2016 City of Seaside and MPWMD funded \$20,000 turf removal incentive for the 87,000 square feet of turf eliminated in the King Sports Complex field retrofit project.

As the Coordinator of Renewable Energy and Conservation. I am working diligently to conserve water across the whole school district. The momentum of the MPUSD water conservation plan is growing. MPUSD is committed to reduce the need for water across the district. By 2021 we have the goal of reducing ornamental turf by 65% and to retrofit every field with efficient irrigation systems including flow sensors and master valves. MPUSD has been asked to speak at a state level as a leader in school districts water conservation. MPUSD has reduced its water use by 58% compared to the base year of 2013.

In 2016 MPUSD was awarded a Drought Response Outreach Program for Schools Grant to implement Storm water LID projects and education at 4 Seaside Schools.

In 2017-18 MPUSD partnered with MPWMD to remove 13,424 sq. ft. of turf and create a partnership water conservation demonstration garden on Broadway Ave.

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In 2017-18 MPUSD received \$10,540 for turf removal incentive to make Martin Luther King a site with zero non-essential turf.

In 2018-19 MPUSD is requesting a second year of funding for the Partnership with MPWMD water conservation demonstration garden on Broadway Ave.

I look forward to working with MPWMD for many years.

Thank you

David Chandler

Coordinator of Renewable Energy and Conservation

**APPLICATION ATTACHMENTS**

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**ATTACHMENT 1**

**SITE Photo**



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**ATTACHMENT 2**

**PROPOSED PLAN**

<u>Site</u>	<u>Project</u>	
1. International School of Monterey	Turf removal	Retrofit field to have an efficient irrigation with head to head coverage, fractional stations and flow sensors and master valve. Focused irrigation to play area. Turf removal by creating a 20 perimeter walking track 100 ft diameter baseball infield and a drought tolerant landscape.

**ATTACHMENT 3**

**BUDGET**

<p><b>Monterey Peninsula Water Management District LANDSCAPE GRANT PROPOSAL MONTEREY PENINSULA UNIFIED SCHOOL DISTRICT BUDGET \$55,127 total field retrofit project</b></p> <p><b>Turf removal: 25,067 square feet</b></p> <p><b>Turf removal funds: \$1 per square foot: \$25,067</b></p>
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**ATTACHMENT 4**

**PROJECT TIMELINE**

Upon MPWMD award of proposal MPUSD and the other funding approval project planning and design will start. The turf removal will be complete by June 30<sup>th</sup>, 2019.

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**ATTACHMENT 5**

**MAINTENANCE PLAN**

The MPUSD maintenance department will maintain the area. This maintenance will be scheduled Weekly.

David Chandler, the MPUSD Coordinator of Renewable Energy and Conservation, will oversee implementation of proposed project.

**ATTACHMENT 6**

**WATER SAVINGS**

Currently International School of Monterey lower field has 46,799 square feet of irrigated play grass and 4053 square feet on non-essential turf. The current field of 50,852 sq ft of turf would use 1,593,005 gallons of water annually. The new proposal would abandon the current irrigation and focus the irrigation to an area of play. This areas size will be decreased and irrigation efficiency improved. The new field area of 25,785 square feet use 575,521 gallons, This proposal will reduce water use 1,017,481 gallons, a 63% reduction in water need annually. The field irrigation would also have a flow sensor and master valve reducing water waste caused by irrigation breaks.

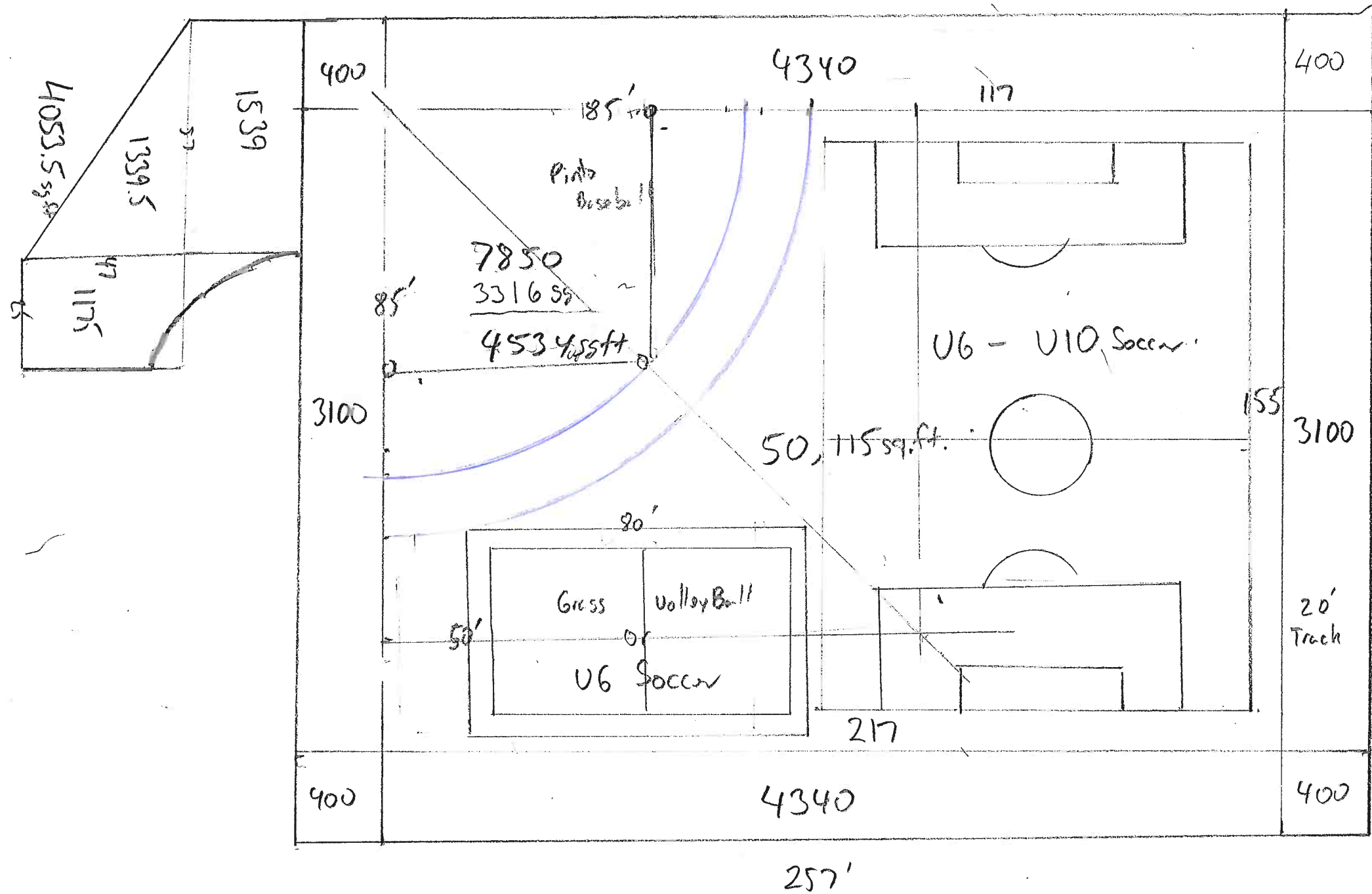
**ATTACHMENT 7**

**CURRENT LANDSCAPING INFORMATION**

	<u>H2O Requirement</u>	<u>Current Irrigation</u>
Field	Turf (High) 50,852 sqft	Hunter I core , poor mapping approx..57% efficiency

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Existing field 50,115 sqft with 3316 D6 infield + 4053 sqft Ornamental. = 50,852 sqft  
 New field. 33635 sqft with 7850 D6 infield. = 25785  
25067  
 Turf Removal.



16,480  
 + 4053  
20,533 sqft  
 + 4534 sqft  
25067 sqft