

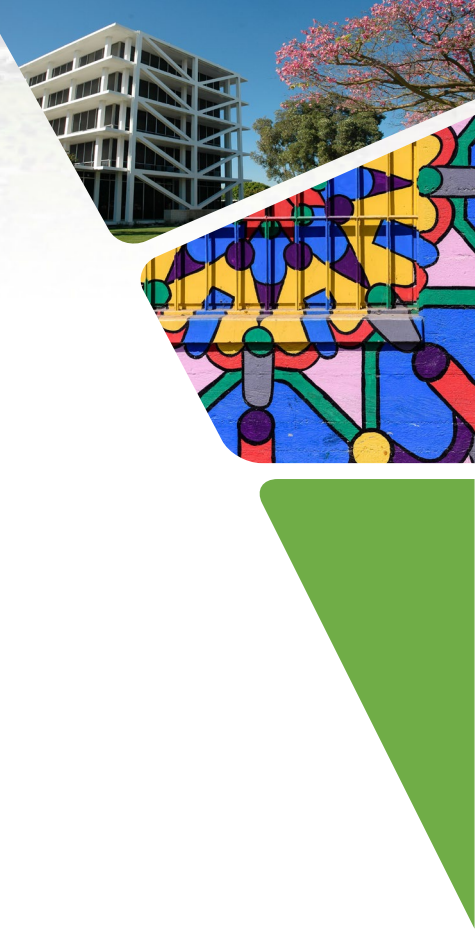
AWARD OF THE GREENVILLE-BANNING CHANNEL HYDRODYNAMIC SEPARATOR INSTALLATION PROJECT, NO. 25-02

CITY COUNCIL MEETING
FEBRUARY 4, 2025



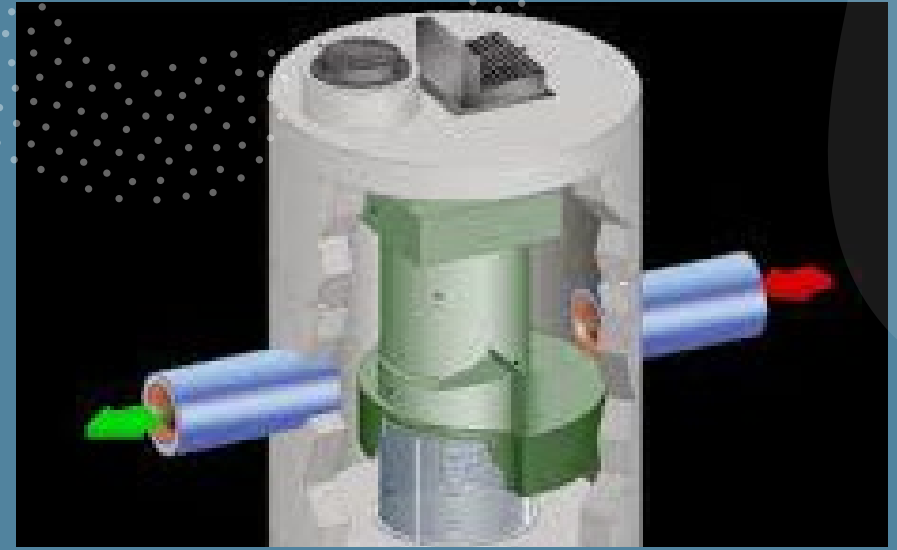
OCTA's ECP TIER 1 GRANT PROGRAM

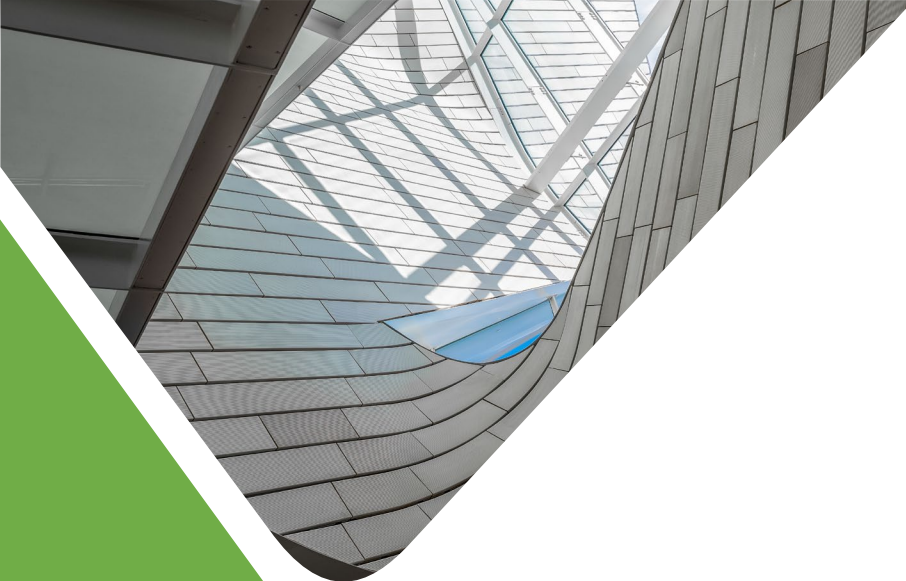
- On May 2010, the Orange County Transportation Authority (OCTA) Board of Directors approved funding for the Measure M2 Project X Environmental Cleanup Program (ECP).
- Tier 1 ECP Grant Program is designed to mitigate the more visible forms of pollutants, such as litter and debris, which collect on roadways and in storm drain catch basins prior to being deposited in waterways and in the ocean.
- The City applied for and was awarded a Tier 1 ECP grant in 2023 in the amount of \$500,000 for this Greenville-Banning Channel HDS Installation Project.



BACKGROUND AND OVERVIEW

- The hydrodynamic separator (HDS) is a trash capture system and stormwater quality improvement device that uses cyclonic separation to remove and separate debris from inflowing stormwater.
- This device is specifically designed to be connected to storm drains as “flow-through” structures with sediment and debris being separated through gravitational settlement.





After it Rains . . .





How it Should be . . .



SITE LOCATION

- The HDS unit will be installed at the western boundary of Costa Mesa Country Club.
- Newly installed HDS unit will be connected to the existing storm drain.
- New device will “filter” debris and sediment before outflowing into the Greenville-Banning Channel.

PROPOSED DESIGN

Connecting to the existing Orange County Flood Control Storm Drain



PROJECT OVERVIEW

- Bid Opening: November 12, 2024
- Lowest Bidder: Zusser Company (Los Angeles, California)
- Bid Amount: \$811,750
- Zusser has completed similar projects such as:
 - Barnes Park Stormwater Capture Project (Baldwin Park)
 - West Hollywood Western Basin Diversion (L.A. County Public Works)
 - John Anson Ford Park Infiltration Cistern (Bell Gardens)

A decorative collage of Costa Mesa landmarks is positioned on the left side of the slide. It includes a top section showing a modern building's curved glass and metal facade, a middle section with a daytime view of a large building complex and palm trees, and a bottom section showing a building at night with a prominent dome and illuminated signs.

PROJECT FUNDING SUMMARY

- Contract Amount: \$811,750
- Contingency Amount (10%): \$81,175
- Funding:
 - OCTA Tier 1 ECP Grant (Measure M2): \$500,000
 - Drainage Fund (209) [OCTA Match]: \$125,000
 - Westside Storm Drain Improvements Project: \$271,000

RECOMMENDATIONS

- Make a finding of California Environmental Quality Act (CEQA) categorical exemption pursuant to CEQA Guidelines Section 15301 and adopt plans, specifications, and working details for the Greenville-Banning Channel Hydrodynamic Separator (HDS) Installation Project, City Project No. 25-02.
- Award a Public Works Agreement (PWA) for construction to the Zusser Company, Inc., 528 Palisades Drive, Suite 504, Los Angeles, California 90272 in the amount of \$811,750 (base bid and additive bid) and authorize an additional ten percent (10%) contingency, in the amount of \$81,175 for construction, as needed, for any unforeseen costs related to this project.
- Authorize the City Manager and City Clerk to execute the PWA with the Zusser Company, Inc., and future amendments to the agreements within Council authorized limits.
- Authorize \$270,280 from the Westside Storm Drain Improvements Project (550022) to supplement the remaining costs of this project.



QUESTIONS?

From: [GREEN, BRENDA](#)
To: [TERAN, STACY](#)
Subject: FW: Agenda review questions
Date: Tuesday, February 4, 2025 1:49:41 PM
Attachments: [HDS Slide.jpg](#)
[Design \(HDS\).jpg](#)

Brenda Green
City Clerk
City of Costa Mesa
714/754-5221

From: SETHURAMAN, RAJA <RAJA.SETHURAMAN@costamesaca.gov>
Sent: Tuesday, February 4, 2025 1:38 PM
To: PETTIS, JEFF <Jeff.Pettis@costamesaca.gov>
Cc: FARRELL HARRISON, LORI ANN <LoriAnn@costamesaca.gov>; GREEN, BRENDA <brenda.green@costamesaca.gov>; Kimberly Hall Barlow - City Attorney <khb@jones-mayer.com>; GALLARDO DALY, CECILIA <CECILIA.GALLARDODALY@costamesaca.gov>
Subject: RE: Agenda review questions

Council Member Pettis:

Thank you for your email with questions on few of the agenda items. Please see the below email for the responses (in blue text). Please let me know if you have further questions.

Raja Sethuraman
Public Works Director
City of Costa Mesa
714-754-5343

From: PETTIS, JEFF <Jeff.Pettis@costamesaca.gov>
Sent: Tuesday, February 4, 2025 9:10 AM
To: FARRELL HARRISON, LORI ANN <LoriAnn@costamesaca.gov>
Subject: Agenda review questions

Good Morning Lori Ann,

I sincerely apologize for needing to miss our 2 p.m. agenda review today. I wanted to pass along the questions I planned on asking you during the council meeting this evening.

I am pulling 2 Consent Calendar items because I had a couple questions for each: I am also asking a couple questions on the New Business item, Hydrodynamic Separator.

Consent Calendar item # 6; Accept the LED Light Projects:

What is the anticipated savings in terms of energy costs and maintenance costs over five years?

The anticipated savings in terms of energy and maintenance costs is 50% to 85% over typical High Intensity Discharge lighting. This includes a 25-year warranty that includes all parts and labor.

Jack Hammett showed an anticipated savings of \$615,300 in energy and maintenance costs and a reduction of 761 tons of CO2 emissions over the 25 years.

TeWinkle Athletic Complex showed an anticipated savings of \$397,576 in energy and maintenance costs and a reduction of 669 tons of CO2 emissions over the 25 years.

Musco was not able to provide similar data for the Tennis Center or Bark Park as they did not have historical data on use as these were not Musco Systems. The new lighting system is expected to generate similar savings in the range of 50 – 75% compared to old system.

Other benefits would include appropriate lighting levels for sports play and improved safety.

Consent Calendar item # 7; batting cages:

What are the estimated installation costs and timeline?

The estimated installation costs of batting cages will be \$60,000-\$65,000.

Staff will work with the user groups with regards to timeline. The work could theoretically start within the next two months or, if preferred, at the next maintenance closure in July. The goal would be to minimize impact to the user groups.

Does this athletic complex generate revenue, and if so, will this installation increase this revenue?

This complex generates minimal revenue as the majority of user groups fall into a group 1 – no fee classification. The minimal revenue comes from any user group 3 and up that gets charged fees. In FY 23/24 revenue was just over \$10,000. The anticipated increase in revenue due to batting cages is expected to be minimal.

New Business, Hydrodynamic Separator (HDS):

What is the estimated installation cost and timeline?

The total project including Installation cost is \$811,750 (not counting 10% contingency). The HDS unit is approximately \$255,000.

Timeline is about 4 to 5 months. Staff anticipates start of construction around April and completed by this summer.

Ask—Please provide a site plan or location and one or two images of the design.

This will be included the staff presentation as this is New Business item. However, please see attached for location of the HDS unit and design. It will at the western edge of the golf course.

**Thank You,
Jeff**



SITE CONDITIONS

- Newly installed HDS unit will be connected to the existing storm drain.
- New device will “filter” debris and sediment before outflowing into the Greenville-Banning Channel.

FAIRVIEW
PARK

PR CONCRETE COLLAR FOR RCP PER
STD PLAN 380-4, SEE SHEET C5.0

PR SD MANHOLE STRUCTURE PER
STD PLAN 320-2, SEE SHEET C5.0

FAIRVIEW
CHANNEL

PR JUNCTION STRUCTURE 'B' PER
STD PLAN 322-2, SEE SHT C6.0

PR SD HYDRODYNAMIC SEPARATOR STRUCTURE
CONTECH CDS5678-10-C, SEE SHT C8.0

PR JUNCTION STRUCTURE 'A' PER MODIFIED
STD PLAN 322-2, SEE SHT C6.0 & C7.0

EX 114" SD PER PLAN HARBOR/MAPLE STORM
DRAIN PHASE I, PLAN 85-24, SEP. 1985

EX 72" SD PER PLAN FAIRVIEW CHANNEL (PROJECT D-4) &
NORTH COSTA MESA STORM DRAIN, PLAN D04-401, FEB. 1958

LOS LAGOS
HOLE #6

COSTA MESA
GOLF COURSE

