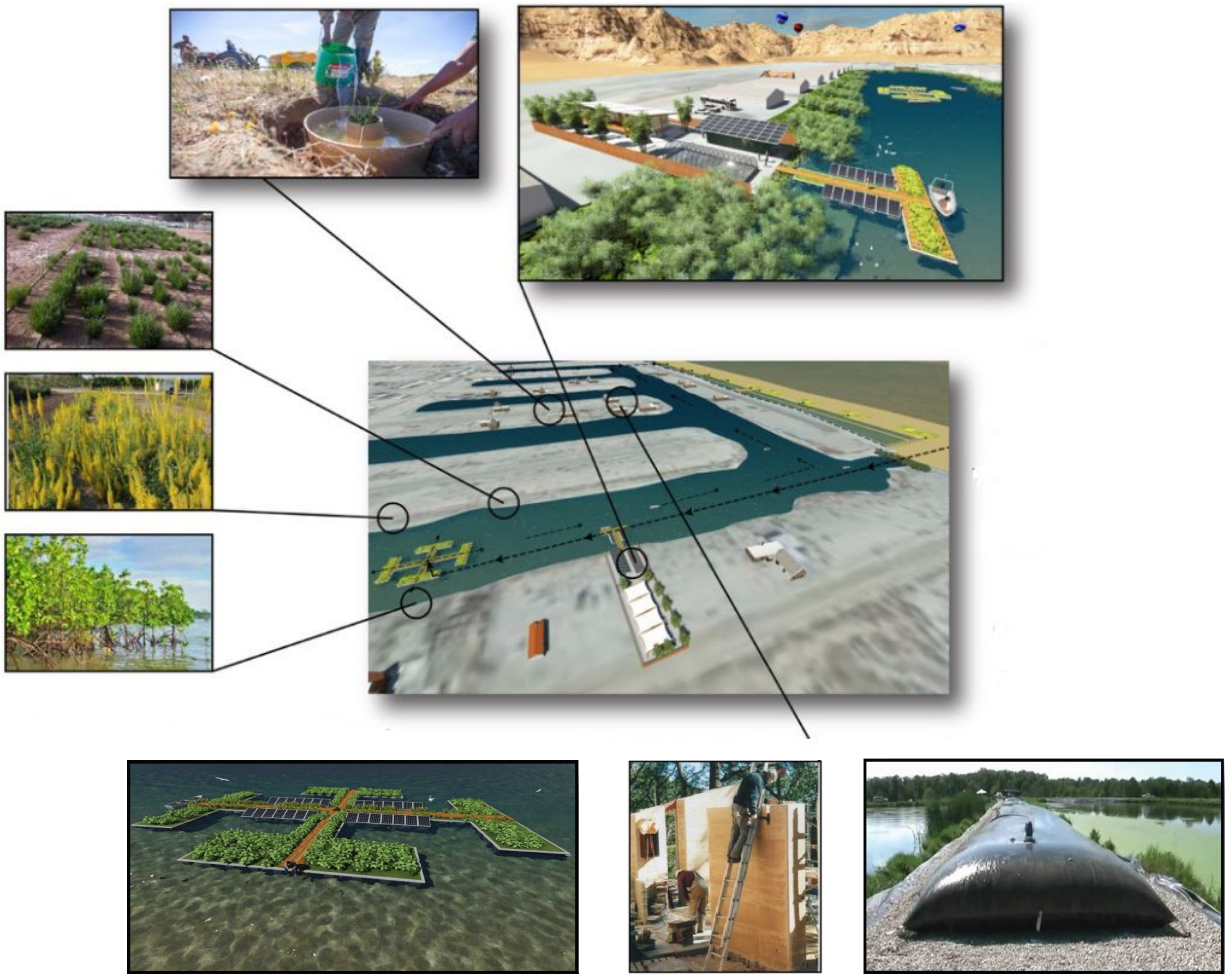


PROJECT NAME - **Desert Shores Restoration Pilot Project Phase 1**

PROJECT LOCATION - 3713 Capri Road, Thermal, CA 92274

PREPARED BY - The EcoMedia Compass / AGESS, Inc. / Sephton Water Technology

POINT OF CONTACT - Nathan White
1020 Madison Avenue
San Diego, CA. 92116
714.262.5177
agessinc@gmail.com
www.agessinc.com

INTRODUCTION:

Desert Shores community is currently experiencing an accelerated drying because of the Salton Sea receding, this receding is due to diverted water sold to the City of San Diego, Recharging Coachella aquifers, and decreased farm usage because of to the Desert Shores size. Unless addressed soon, 32 acres of historic water channels will become another exposed playa liability. Without immediate intervention, current dust exposure will increase and become a detrimental hazard to the air quality of the area with the most direct impact on the Desert Shores residents. Tilapia breeding areas are being lost by the thousands due to the seas recession and migratory birds have declined in the area. It is our goal to achieve a dramatic improvement of air quality for residents and our neighbors as well as resoter fish and bird habitat through this restoration prototype.

Agess Incorporated, Septhon Water Technology & EcoMedia Compass have partnered with a majority of Desert Shores landowners, and a others living adjacent and with the local Channel communities around the Salton Sea. Together, we herein propose a dust mitigation, habitat, quality of life and shoreline improvement strategy for the residents and surrounding population who are susceptible to serious dust hazards from the playa.

We invite invite your organization, to join us to create a sustainable and healthy living condition for all communities being affected.

OBJECTIVE:

The proposal goal is to demonstrate how to effectively mitigate dust, create habitat fishery to improve the communities health through dust mitigation and improve declining property values by the restoration of the quality of the water and placing new life in Desert Shores Keys. This is achieved through at two stage process, the first is the implementing of a pump from the Salton Sea into the existing boat channel area that has been disconnected from the receding Sea.

Stage 1 Goal: The first milestone is complete and the land is ready for permits to be drawn, after which, a GeoTube earth berm will be installed to block the existing intake channel so that water put in will remain in and not try to fill the whole sea. It will also allow for any imported or improved water to remain in the keys. Once completed this milestone will prevent Playa from being exposed to local residents and create the foundation for stage 2. The pumping system is left floating in the sea so it will be capable of adapting to changing shoreline conditions. From this boat at form water can be added from. The sea to manage evaporation. This flexibility and source allows the project to cost effectively follow the receding water supply from the sea, and the pump will have minimal in-flow

interruption. This proposal has been included in the Salton Sea Management Program – Phase I: 10-Year Plan (SSMP) and compatible with the Salton Sea Air Quality.

Stage 2 Goal: The target of this goal is to complete the overall goal of the demonstration project, the restoration of life by improving the water quality. This is done by utilizing the water surface in conjunction with shore line restoration to accelerate successful sustainable growth. The islands serve a dual surface function of water purifier and protected bird habitat, while each island structure and plant roots provide fish habitat. Preliminary water and continuous further cleaning in the keys is achieved using technology provided by Sephton water Co. The habitat floating islands and fisheries are from Agess Inc.

Final Goal: Once both stages are complete the objectives of the project will be successfully met, which are to stop dust, improve, air quality, in addition the project will also demonstrate the effectiveness of utilizing the surface water to maintain and improve the water and quality of life around the sea and its neighbors. A further expansion to the Project on adjacent land would include a history museum, recreational park equipment bird sporting rentals contained in a visitors and local cultural center.

Look Forward : We hope these demonstrated restoration methods will be quickly adopted at other sites around the Salton Sea, such as: Salton Riviera Keys, Salton Sea Beach, North Shore Yacht Club, Varner Harbor at the State Park, etc.

PROJECT STATUS:

- **Permits and Fees:** The Imperial County Board of Supervisors unanimously approved project permit fees waiver for this project on November 21, 2017 for permits that are under their jurisdiction. If state funds project then we anticipate state to pay for associates fees that were waived.
- **Property Acquisition and Authorization:** Salton Community Services District (SCSD) and the Properties Owners Association (POA), Imperial Irrigation District (IID) have provided a signed and notarized owner's affidavit for permit applications. The IID has also provide a purchase agreement of two adjacent lots for a price of $2. This now completed. We anticipate a similar arrangement for the middle parcel from the SCSD in the coming months.
- **Maintenance and Operations Funds:** Imperial County District Rec. funds - tract 662-B will be able to provide maintenance and operation funds for the proposed project once completed if the state is unable to assume those costs.

- **Stage 1:** Dust mitigation**.** Refilling the Keys by closing the existing channel to the sea with a removable barrier. The use of in-situ channels utilizes an existing resource without dislocating residential property owners is a large cost savings this project. The depth and size of the Keys can be maintained till the final fate of the sea is determined. Without intervention the existing channel will become playa within a very short time with no definite date for restoration.

- **Stage 2:** Enhanced Vegetation habitat islands - Salt-tolerant landscapes and Selenium extraction will be achieved through the collaborative effort of AGESS working closely with Intrynsix Technologies Corporation and the PPCU, pioneers in the use of salt-tolerant plants for land and water phytoremediation. We are also working with other emerging technology innovators to create a replicable, robust system for ecological restoration of the Salton Sea. Intrinsyx's particular landscape and farming systems uses harvestable vegetation that can be sold to fund future development expansion phases.

- **Cost Benefit Analysis:** The benefit of this playa mitigation and habitat program will have an increase to health conditions due to the mitigation of dust transmission. The added benefit is reduced excavation cost of traditional proposals since the earthwork is complete. The health of residence, birds and fish can also be achieved through modular desalination or blending with fresh water at a later date. This proposal can be installed over a six month timeline with all phases occurring simultaneously with an added benefit of demonstrating scalable mitigation measures for other communities around the sea. The 245 properties in the Keys will also see a increase to property values since the water will restore their shorelines. We anticipate at least 5,000-$15,000 increase to lot values which can result in $2,450,000+ net worth cumulatively to the local economy.

- **Cost Per Acre:** 32 acres of surface area with a cost of $100,000 equals $3,125 per acre

- **Public Private Partnerships for Success:** To date this effort has brought about collaboration from Imperial Irrigation District, Imperial County, Imperial County Planning & Development Service, California Natural Resources Agency (CNRA), Salton Community Services District (SCSD), Private Landowners, Non-Profits Groups and industrial partners.

DONATION FORM

Organizational Information

Organization Name _____

Federal Tax ID# (If Applicable) _____ 5.01(c)3 nonprofit? ___ Yes ___ No

Contact Name & Title _____

Organization Address _____

City _____ State ____ Zip _____

E-mail Address _____

Phone Number _____ Fax Number _____

Please describe the purpose of your organization and its primary beneficiaries or In-Kind Contributions_____

Sponsor Types

- Platinum Sponsor: $5,000.00
- Gold Sponsor: $2,500.00
- Bronze Sponsor: $500.00
- Patron: $250.00
- Citizen Activist: $100.00
- Other: $_____

Payment Options

- Check (Made out to The EcoMedia Compass)
- Cash
- Credit Card
    - Visa
    - Master Card

Credit Card #_____

Exp. Date_____

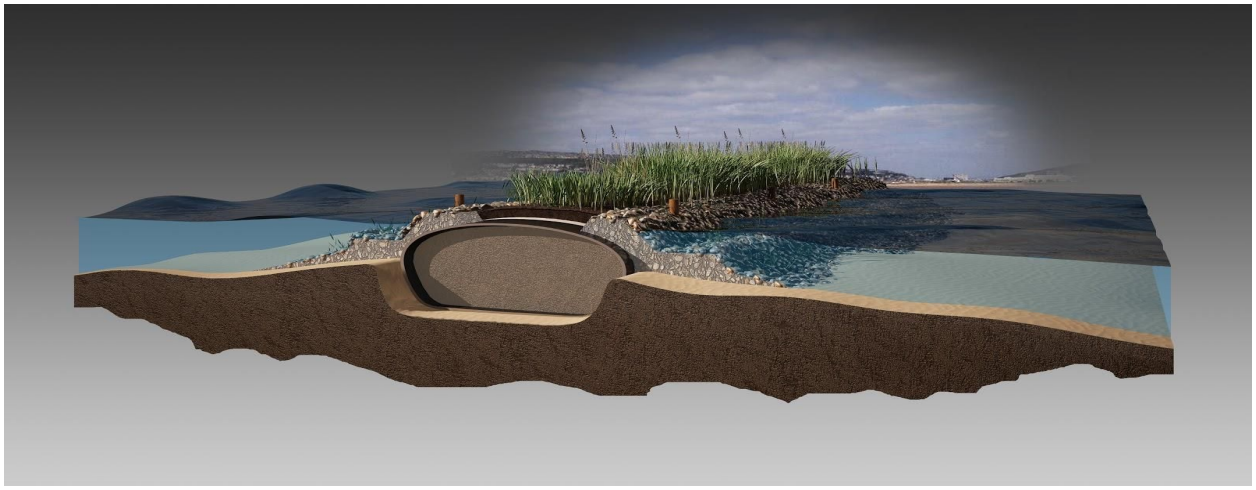
Signature_____

Enclosed Amount $_____

Please return this donation form and a copy of your 5.01(c)3 certification (if applicable) to: P.O. Box 5317 Salton City, Ca 92275 or digitally to email Attention: Kerry Morrison
https://www.californiassaltonsea.com/

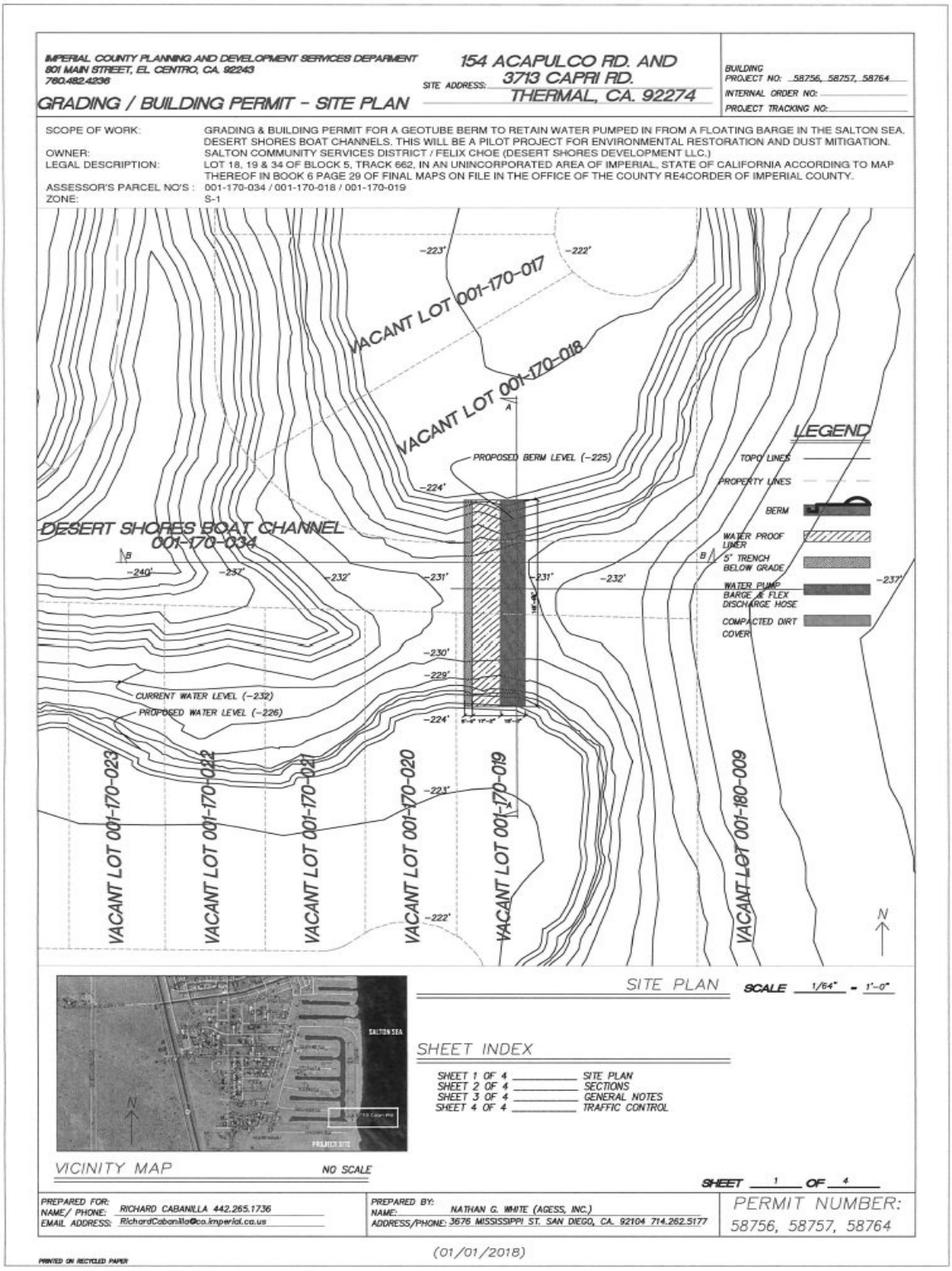
Site Conditions & Conceptual Images **-** *Recent aerial of canal location for pump and dam site.*

Installation of Tencate Geotube Structure for retention of imported water



Potential future dust mitigation and habitat creation locations around the Salton Sea

Building Permit - Schematic Site Plan

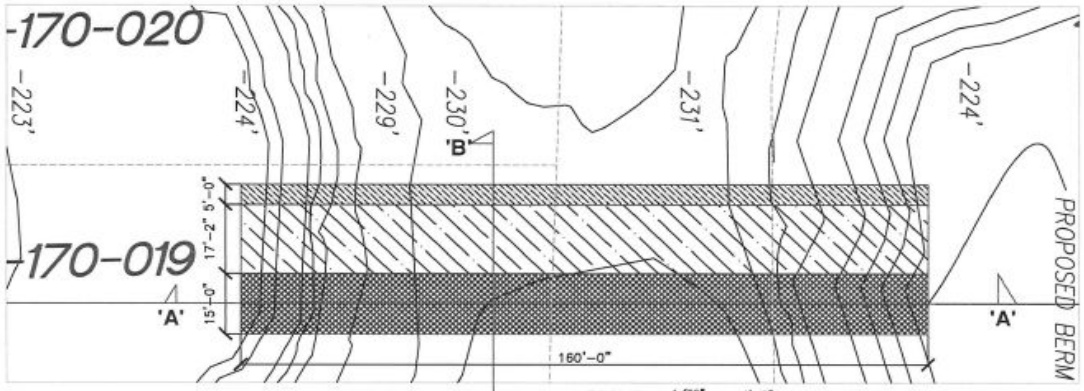


IMPERIAL COUNTY PLANNING AND DEVELOPMENT SERVICES DEPARMENT
801 MAIN STREET, EL CENTRO, CA. 92243
760.482.4236

GRADING / BUILDING PERMIT - SECTIONS

SITE ADDRESS: 154 ACAPULCO RD. AND 3713 CAPRI RD. THERMAL, CA. 92274

BUILDING PROJECT NO: 58756, 58757, 58764
INTERNAL ORDER NO:
PROJECT TRACKING NO:



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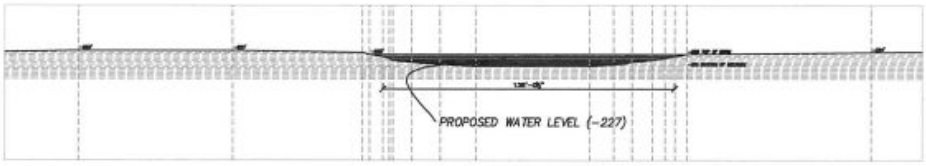
SECTION 'A'



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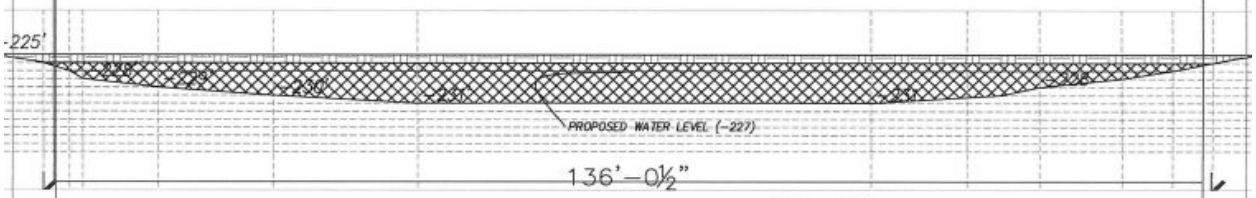
SECTION 'A' - ENLARGED



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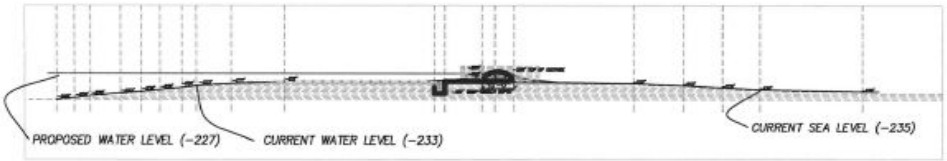
SECTION 'B'



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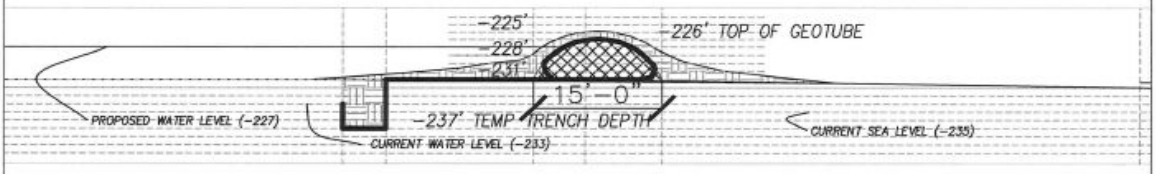
SECTION 'B' - ENLARGED



SCALE 1/16" = 1'-0" SHEET 2 OF 4

PREPARED FOR:
NAME/ PHONE: RICHARD CABANILLA 442.265.1736
EMAIL ADDRESS: RichardCabanilla@co.imperial.ca.us

PREPARED BY:
NAME: NATHAN G. WHITE (AGESS, INC.)
ADDRESS/PHONE: 3676 MISSISSIPPI ST. SAN DIEGO, CA. 92104 714.262.5177

PERMIT NUMBER:
58756, 58757, 58764

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IMPERIAL COUNTY PLANNING AND DEVELOPMENT SERVICES DEPARMENT
801 MAIN STREET, EL CENTRO, CA. 92243
760.482.4236

GRADING / BUILDING PERMIT - NOTES

SITE ADDRESS: 154 ACAPULCO RD. AND 3713 CAPRI RD. THERMAL, CA. 92274

BUILDING PROJECT NO: 58756, 58757, 58764
INTERNAL ORDER NO:
PROJECT TRACKING NO:

GRADING PLAN GENERAL NOTES

1. APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.
2. FINAL APPROVAL OF THESE GRADING PLANS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL CURB GRADE ELEVATIONS MAY REQUIRE CHANGES IN THESE PLANS.
3. IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AN ENCROACHMENT PERMIT FROM THE COUNTY OF IMPERIAL DEPARTMENT OF PUBLIC WORKS FOR ANY EXCAVATION OR CONSTRUCTION WITHIN COUNTY ROAD RIGHT-OF-WAY. FOR INSPECTIONS, 48 HOUR MINIMUM NOTICE IS REQUIRED, (760) 482-4462. ADDITIONALLY, UNDERGROUND SERVICE ALERT (USA) MUST BE CALLED TWO WORKING DAYS BEFORE THE CONTRACTOR MAY EXCAVATE. THEIR CONTACT NUMBER 811 (formerly (800) 422-4133). ALL WORK AND MATERIALS ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.
5. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES:

GAS	TELEPHONE NO.	(800) 422-4133/(800) 227-2600
IID POWER:	TELEPHONE NO.:	(760) 339-9280
IID WATER	TELEPHONE NO.	(760) 339-9263
PACIFIC TELEPHONE:	TELEPHONE NO.	(800) 422-4133
CATV:	TELEPHONE NO.	To Be Determined
SEWER AGENCY	TELEPHONE NO.	To Be Determined
WATER AGENCY	TELEPHONE NO.	To Be Determined

6. A SOILS REPORT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT AND/OR GRADING PLAN APPROVAL.
7. APPROVAL OF THESE PLANS BY THE DIRECTOR OF PUBLIC WORKS DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED BY THE COUNTY PLANNING & DEVELOPMENT SERVICES DEPARTMENT.
8. THE DIRECTOR OF PUBLIC WORKS' APPROVAL OF THESE PLANS DOES NOT CONSTITUTE COUNTY BUILDING OFFICIAL APPROVAL OF ANY FOUNDATION FOR STRUCTURES TO BE PLACED ON THE ITEMS COVERED BY THESE PLANS, INCLUDING ANY ONSITE OR PERIMETER SCREEN OR RETAINING WALLS.
9. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.
10. NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITTEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY SUCH PROPERTY FROM SETTLING, CRACKING, EROSION SILTING, SCOUR OR OTHER DAMAGE, WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THE PLAN. THE COUNTY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
11. SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING OPERATION, SUCH OPERATION WILL CEASE IMMEDIATELY AND THE PERMITTEE WILL NOTIFY THE DIRECTOR OF THE PLANNING & DEVELOPMENT SERVICES DEPARTMENT AND THE DISCOVERY. GRADING OPERATION WILL NOT RECOMMENCE UNTIL THE PERMITTEE HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PLANNING & DEVELOPMENT SERVICES TO DO SO.
12. THE CONSTRUCTION OF ONE PCC STANDARD DRIVEWAY PER LOT, LOCATION TO BE DETERMINED IN THE FIELD BY ENGINEER OF WORK AND APPROVED BY COUNTY PUBLIC WORKS INSPECTOR. PCC SURFACING OF DRIVEWAY TO EXTEND FROM CURB TO PROPERTY LINE.
13. ALL GRADING SHALL CONFORM TO THE UNIFORM BUILDING CODE APPENDIX CHAP. 33, AS AMENDED BY TITLE 9 LAND USE ORDINANCE.
14. ALL PROPERTY CORNERS SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION AND/OR GRADING.
15. DURING ROUGH GRADING OPERATIONS AND PRIOR TO THE CONSTRUCTION OF ANY PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROL SHALL BE PROVIDED TO PREVENT PONDING WATER AND DAMAGE TO CONTIGUOUS PROPERTIES.
16. DUST SHALL BE CONTROLLED BY THE CONTRACTOR IN ACCORDANCE WITH ALL IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT (APCD) FUGITIVE DUST CONTROL RULES AND REGULATIONS AND SHALL COMPLY WITH THEIR PERMITTING REQUIREMENTS, IF APPLICABLE.
17. NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE EXISTING GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL AND OTHER DELITERIOUS MATERIAL.
18. THE MAXIMUM ALLOWABLE CUT AND FILL SLOPES ARE 2:1, UNLESS A SLOPE STABILITY ANALYSIS AUTHORIZES A STEEPER SLOPE AND HAS BEEN APPROVED.
19. A 5' WIDE BY 1' HIGH BERM, OR EQUIVALENT, SHALL BE CONSTRUCTED ALONG THE TOP OF ALL FILL SLOPES OVER 5' IN VERTICAL HEIGHT. ALL SLOPES LESS THAN OR EQUAL TO 5' SHALL HAVE A BERM TO PREVENT DRAINAGE FROM ERODING SAME.
20. A BROW DITCH DESIGNED TO HANDLE THE FLOWS (Q) FROM A 100-YR. STORM EVENT SHALL BE CONSTRUCTED ALONG THE TOP OF ALL CUT SLOPES.
21. NO OBSTRUCTION OF FLOOD PLAINS OR NATURAL WATER COURSES WILL BE PERMITTED.
22. ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION DURING STORM CONDITIONS. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT CONTIGUOUS PROPERTIES DURING GRADING OPERATIONS.
23. THE FINISED GRADE SHALL BE SLOPED AWAY FROM ALL EXTERIOR BUILDING WALLS AT NOT LESS THAN 4% (1/2" PER FOOT) FOR A MINIMUM OF 3 FEET, UNLESS A SOIL REPORT PROVIDES ALTERNATE RECOMMENDATIONS.
24. A QUALIFIED AND REGISTERED PROFESSIONAL ENGINEER SHALL SUBMIT A WRITTEN CERTIFICATION TO THE PUBLIC WORKS DEPARTMENT THAT THE FINAL GRADING HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS FOR ALL GRADING DESIGNATED AS "ENGINEERED GRADING". AS-BUILT PLANS SHALL BE PROVIDED PRIOR TO FINAL ACCEPTANCE.
25. THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT AT LEAST 48 HOURS IN ADVANCE OF REQUESTING A FINISH LOT GRADE AND DRAINAGE INSPECTION. THIS INSPECTION MUST BE APPROVED PRIOR TO THE BUILDING PERMIT FINAL INSPECTION BY PUBLIC WORKS FOR EACH LOT.
26. THE CONTRACTOR SHALL NOTIFY "UNDERGROUND SERVICE ALERT" AT 811 (formerly (800) 422-4133) A MINIMUM OF TWO DAYS PRIOR TO THE COMMENCEMENT OF ANY DIGGING OR EXCAVATION.

IV F. STORM WATER CONTROLS

TO BE ADDED

IV G. GRADING ORDINANCE:

-TITLE 9, DIVISION 10, CHAPTER 10
IS REFERENCED HEREIN
-2001 UNIFORM BUILDING CODE

NOTE THAT ALL GRADING PERMITS ARE ISSUED BY THE COUNTY BUILDING DEPARTMENT. NOTE ALSO THAT ALL GRADING AND DRAINAGE PLANS MUST BE REVIEWED AND APPROVED BY THE COUNTY PUBLIC WORKS DEPARTMENT.

27. ALL SEWER AND WASTE SYSTEMS ARE UNDER THE SALTON COMMUNITY SERVICES DISTRICT JURISDICTION

PREPARED FOR:
NAME/ PHONE: RICHARD CABANILLA 442.265.1736
EMAIL ADDRESS: RichardCabanilla@co.imperial.ca.us

PREPARED BY:
NAME: NATHAN G. WHITE (AGESS, INC.)
ADDRESS/PHONE: 3676 MISSISSIPPI ST. SAN DIEGO, CA. 92104 714.262.5177

PERMIT NUMBER:
58756, 58757, 58764

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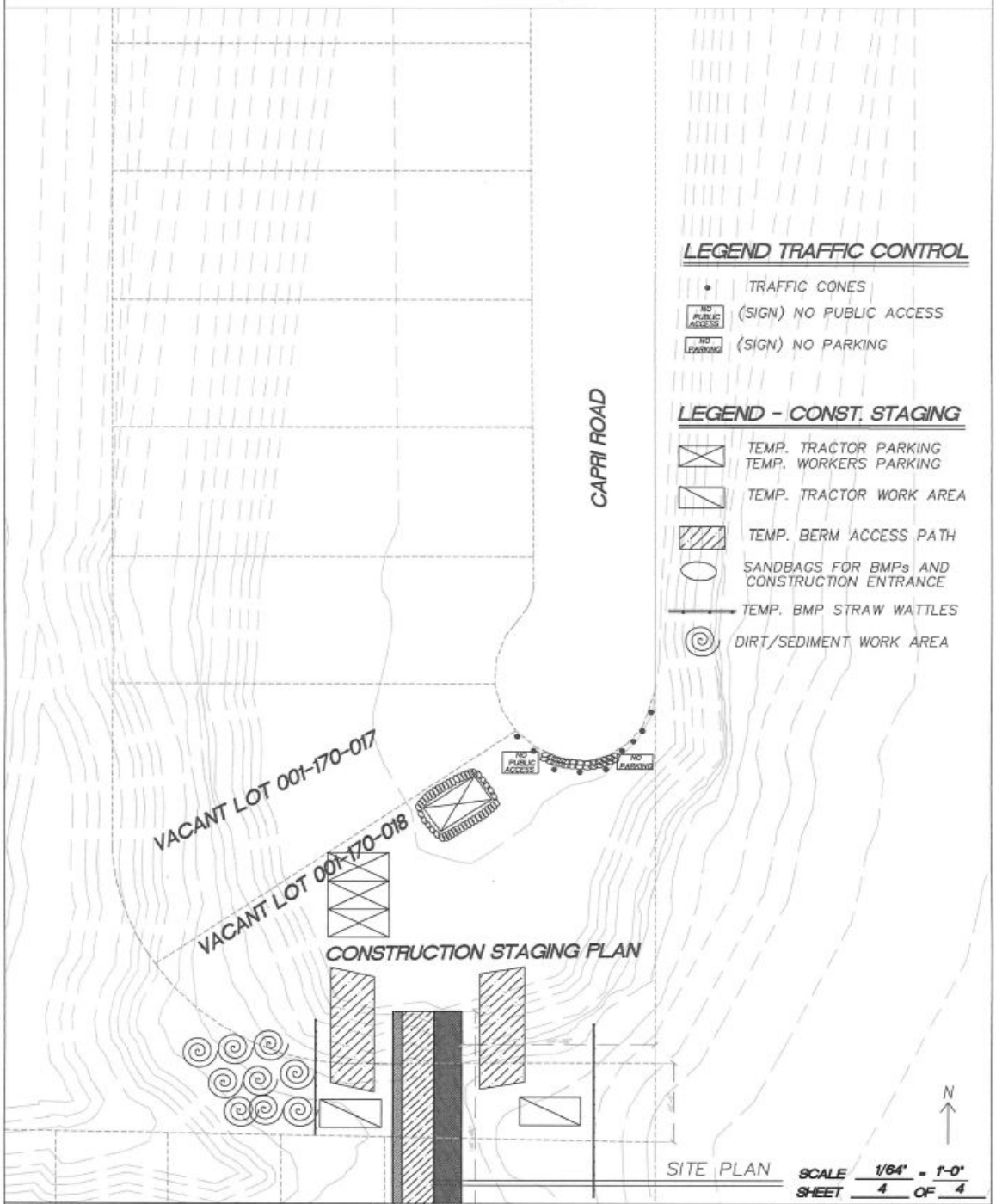
801 MAIN STREET, EL CENTRO, CA. 92243
760.482.4236

TRAFFIC CONTROL PLAN

SITE ADDRESS: 3713 CAPRI RD. THERMAL, CA. 92274

BUILDING PROJECT NO: 58756, 58757, 58764
INTERNAL ORDER NO:
PROJECT TRACKING NO:

SCOPE OF WORK:	CONSTRUCTION STAGING DIAGRAM FOR A GEOTUBE BERM INSTALLATION TO RETAIN WATER PUMPED IN FROM A FLOATING BARGE IN THE SALTON SEA INTO THE DESERT SHORES BOAT CHANNELS. THIS WILL BE A PILOT PROJECT FOR ENVIRONMENTAL RESTORATION AND DUST MITIGATION. NO WORK IS PROPOSED IN COUNTY RIGHT OF WAY. ALL WORK ON PRIVATE PROPERTY.
OWNER:	SALTON COMMUNITY SERVICES DISTRICT / FELIX CHOE (DESERT SHORES DEVELOPMENT LLC.) / IMPERIAL IRRIGATION DISTRICT
LEGAL DESCRIPTION:	LOT 18, 19 & 34 OF BLOCK 5, TRACK 662, IN AN UNINCORPORATED AREA OF IMPERIAL, STATE OF CALIFORNIA ACCORDING TO MAP THEREOF IN BOOK 6 PAGE 29 OF FINAL MAPS ON FILE IN THE OFFICE OF THE COUNTY RE4CORDER OF IMPERIAL COUNTY.
ASSESSOR'S PARCEL NO'S :	001-170-034 / 001-170-018 / 001-170-019
ZONE:	S-1



PREPARED FOR: NAME/ PHONE: CARLOS YEE 442.265.1818 EXT. 1838 EMAIL ADDRESS: CARLOSYEE@CO.IMPERIAL.CA.US	PREPARED BY: NAME: NATHAN G. WHITE (AGESS, INC.) ADDRESS/PHONE: 3676 MISSISSIPPI ST. SAN DIEGO, CA. 92104 714.262.5177	PERMIT NUMBER: 58756, 58757, 58764

(01/01/2018)

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Letter of Intent - CNRA Supporting Project

CALIFORNIA natural resources AGENCY

EDMUND G. BROWN JR., Governor
JOHN LAIRD, Secretary for Natural Resources

January 2019

Salton Community Service District
1209 Van Buren Ave; Suite 1|
Thermal, CA 92274

Dear Mitch

As you know the Desert Shores Homeowner Association and Harbor Maintenance group have proposed a project at the Desert Shores Harbor Complex. This project includes the construction of a berm across the harbor inlet and the installation of a pump to deliver water to the harbor. If will raise the water level in the harbor channels and maintain a flow through system. This system should reduce vector control issues and help mitigate fugitive dust emissions from the harbor channels.

The project will have a berm installed at the old inlet to the harbor system at Capri Road and Acapulco Lane. The berm will have an outlet structure to control water elevation and flow through the five harbor channels.

The State of California has included this project in the Salton Sea Management Program(SSMP). As a State SSMP project the State will be responsible for the cost of design and construction. We will also be responsible for funding, through the legislative process, ongoing operation and maintenance.

Preliminary evaluation of the project has commenced and the local group has provided the State will easement information that is under review by our legal department. I would suggest a telephone call (760-482-7528 or 760-200-1618) or a meeting to discuss. We are open to attending a board meeting to discuss if you think that is necessary

Sincerely

Bruce Wilcox
Assistant Secretary Salton Sea policy
CA Natural Resource Agency

Imperial County Board - Fee Waiver Resolution

BOS ADOPTED: 11-21-17
M.O. #13b

A RESOLUTION OF THE COUNTY OF IMPERIAL RELATING TO WAIVER OF PLANNING PERMIT FEES FOR DESERT SHORES KEYS RESTORATION PROJECT.

RESOLUTION NO. 2017-095

WHEREAS, EcoMedia Compass, AGESS, Inc. and community residents are proposing the Desert Shores Keys Restoration Project which is a dust mitigation project at the Desert Shores keys, and cluster of stretches of land intermixed with waterways along the historical shoreline of the Salton Sea ("Project"); and

WHEREAS, the Project will prevent playa from being exposed to local residents and provide mitigation of fugitive dust for over 200 owners and improve the aesthetics of that location; and

WHEREAS, the County of Imperial has a significant public interest in protecting the health of the residents near the Salton Sea and waiving fees for this Project will result in the Project being completed more quickly.

NOW THEREFORE, THE IMPERIAL COUNTY BOARD OF SUPERVISORS FINDS that a fee waiver for the Planning and Development Services Department permit fees for the Desert Shores Keys Restoration Project is warranted due to significant impact the Project will have on dust reduction and public health.

NOW THEREFORE BE IT RESOLVED, that the Imperial County Board of Supervisors supports and approves a fee waiver for the Planning and Development Services Department permit fees for the Desert Shores Keys Restoration Project. This reduction will sunset on December 31, 2018. The Planning Director is hereby granted authority to seek reimbursement of such fees from grants, mitigation funds or other agencies providing funding for dust mitigation at the Salton Sea.

PASSED, ADOPTED, AND APPROVED by the Board of Supervisors of the County of Imperial this 21st day of November, 2017.

Michael W. Kelley

MICHAEL W. KELLEY, Chairman
Board of Supervisors

ATTEST: BLANCA ACOSTA

BLANCA ACOSTA, Clerk of the
Board of Supervisors, County of Imperial,
State of California

Letters of Support - Government Agencies / Non-Profit Partners / Industrial Partners

CAPITOL OFFICE
STATE CAPITOL
ROOM 4062
SACRAMENTO, CA 95814
TEL (916) 651-4028
FAX (916) 651-4928

DISTRICT OFFICES
45-125 SMURR STREET
SUITE B
INDIO, CA 92201
TEL (760) 398-6442
FAX (760) 398-6470

25186 HANCOCK AVENUE
SUITE 320
MURRIETA, CA 92562
TEL (951) 894-3530
FAX (951) 894-3536

California State Senate

SENATOR
JEFF STONE, PHARM.D.
TWENTY-EIGHTH SENATE DISTRICT

VICE CHAIR
LABOR & INDUSTRIAL RELATIONS
VICE CHAIR
NATURAL RESOURCES & WATER

MEMBER
BUDGET & FISCAL REVIEW
PUBLIC SAFETY

December 19, 2016

Nathan G. White, CEO
AGESS, Inc.
640 W. Beech St. #4
San Diego, CA 92101

RE: Desert Shores Dust Mitigation and Enhanced Vegetation Pilot Project

Dear Members of AGESS, Inc.

We have reviewed the RFP document for dust mitigation submitted to Imperial County and our office is in support of the effort to improve community health and property values within the Desert Shores community. The combination of economic and environmental sustainability provided by your project proposal is an exciting prospect for the health and wellbeing of not only the community but the region around the Salton Sea. Innovation and professional project management provided by your team on this effort will have a tremendous impact with replicable implications which our office fully supports.

Dust Mitigation and Enhanced Vegetation solutions will allow for the testing of alternative solutions and salinity restabilization is essential to remediate the ailments of the sea. AGESS unique approach to addressing these issues with treating Salton Sea water to refill the channels is truly unique and our office would like to give our support to ensure the pilot project can test these systems for a comprehensive revitalization strategy.

Mr. Miller has long been a proponent of Salton Sea restoration and recognizes that innovative approaches may well be the solution to the complex problem of implementing a successful restoration program. AGESS approach has the potential to provide some of the economic development that will be key to implementing a viable financial model to fund Salton Sea restoration. We appreciate the effort your team has contributed in the development of the project proposal and in taking the time to present it to us. Our office will continue to support this and similar projects at the Salton Sea as the State moves forward with Salton Sea restoration.

Sincerely,

Glenn Miller

Glenn A. Miller, CGCS
District Director
Office of Senator Jeff Stone

GM:ja

1209 Van Buren Avenue, Suite 1
POST OFFICE BOX 5268
SALTON CITY, CALIFORNIA 92275-5268
TELEPHONE: (760) 394-4446
FAX: (760) 394-4242
scsd@saltoncsd.ca.gov

February 17, 2017

To Whom It May Concern,

Agess, Inc. presented to the Board and the staff at Salton Community Services District their plan to set in force a Dust Mitigation Project for Desert Shores here in the District's service area. While the District has no jurisdiction over such plan, the District feels that this plan is a solid and viable option and is in full support.

It is with our hopes that Agess Inc. and the community of Desert Shores be allowed to start the process and set this plan into action.

If you should have any questions, please feel free to contact the District at (760) 394-4446.

Sincerely,

Mitch Mansfield
General Manager

Intrinsyx

NASA Ames Research Park
350 N. Akron Rd., Bldg. 19, Rm. 2028
Moffett Field, California 94035

P: 650.210.9219
www.intrinsyx.com

February 17, 2017

Via: email only to ralphcordova@co.imperial.ca.us, katherineturner@co.imperial.ca.us

Ralph Cordova
CAC - 2nd FL #208 (EC)

Katherine Turner
CAC - 2nd FL #205 (EC)

Dear Mr. Cordova and Ms. Turner:

We have reviewed the 'Solicitation of Interest' proposals in regards to dust mitigation submitted to Imperial County by AGESS, Inc. and would be pleased to provide services associated with the project once it has been accepted and funded for work associated with water quality management. Our team has a depth of experience with enhanced vegetation for phytoremediation of a large number of contaminants. The landscape element of the project will reduce dust transmission, encourage habitats, improve property values, and provide improved water quality for recreational activities.

The proposed 'Dust Mitigation and Enhanced Vegetation' SOI solutions that test alternative solutions currently on the market are a valuable and imperative first step for your jurisdiction. We are confident that AGESS, Inc.'s unique approach, in treating the Salton Seas' water to refill the channels, will provide a sound and comprehensive revitalization strategy with future replication opportunities.

Intrinsyx is a proponent of Salton Sea restoration projects. We have worked alongside several industrial partners to address dust mitigation through shallow ponds, floating plant species and terrestrial plantings focused on selenium mitigation which is an untreated issue at the this location and in the Sea. AGESS, Inc.'s approach supports economic development; a key to funding the Salton Sea's restoration. We appreciate the effort their team has contributed in the development of the project proposal and in taking the time to present it to us. Our office will continue to support this and similar projects at the Salton Sea as state and local jurisdictions move forward with its restoration.

Very truly yours,

Arshad Mian
Chief Executive Officer

H$_2$O FUTURES
REGENERATIVE DESIGN | LIVING INFRASTRUCTURE

February 14th, 2017

Jim Minnick, Planning & Development Services Director
planninginfo@co.imperial.ca.us

RE: Desert Shores Dust Mitigation and Enhanced Vegetation Pilot Project

We understand and appreciate the tremendous work done by Agess, Inc. and others, towards designing solutions for dust control and other impacts at both the Desert Shores development and the broader Salton Sea Community. Their plans, which I have reviewed in detail, are rational, realistic, and well thought out. These innovative, integrated technologies go beyond mere 'sustainability' and actually enhance the ecology of the region. Furthermore, as you are well aware, this will improve health and land values, and be an exemplary catalyst for environmental improvement and jobs for the greater Salton Sea / Imperial Valley.

As a public official, the attention and support of your office in solving these critical issues, for the greater good, is sincerely appreciated.

Respectfully,

Edwin Daugherty, Principal

2845 Nimitz Boulevard, Suite i | San Diego, CA 92106 | P / F: 001.619.225.2337 | WWW.H2OFUTURES.NET

The EcoMedia Compass
2554 N. Marina Dr
Salton City, California 92275
Phone: (404) 88-WORLD
www.EcoMediaCompass.org

March, 1st 2017

To whom it may concern,

In getting to know the AGESS group through hosting a number of scientific and Salton Sea media events, we have been thoroughly impressed by the ambition, knowledge and innovative restorative concepts that they present. I am pleased to share this letter in support of AGESS Inc.'s proposed pilot projects at California's Salton Sea for the Desert Shores - Dust Mitigation and Restoration. Their technology and mission has a unique symbiosis that has been a rare occurrence in this part of the world; restorative design. Also, it directly benefits shoreline residents for health, property values, morale and aesthetics in a very cost-effective way. A win-win-win from our perspective.

The concepts of purifying water while boasting a viable commercial crop in the region are in dire need here and very much welcomed by all that I've seen & encounter. With so much agricultural runoff and nutrient-rich water, their model is scalable to much larger tracts of seawater and inflows; a potential to effectively clean up the sea on a much grander level. Their concepts also have great potential to help reach the proposed renewable energy goals on Federal, State and regional levels. The pilot projects using the technology that AGESS has fostered have the potential for a wide-array of educational programs and ecotourism- ways to show pride in the region and prepare our next generations for a sustainable future. They also have a pleasantly contagious desire and record of working with the community on creating more awareness, knowledge and collaborative efforts towards Salton Sea restoration.

We will continue to strongly support the great work that this organization continues to do in the area; through media, science, networking and creative collaboration. We're looking forward to great things with this team.

Sincerely,
Kerry F. Morrison
Executive Director
The EcoMedia Compass
Mayor, West Shores Salton Sea

Preliminary Cost Estimates - Sephton Water Technology

Desert Shores Restoration Project: Phase 1	©2018 Sephton Water Technology, Inc.				**Operations and Maintenance Budget**	
Tasks						
Name	**Duration**	**Start Date**	**Finish Date**	**Fixed Cost**	**Variable Cost**	**Total Cost**
Initial Filling and O&M After Berm Installation	**35**	**7/15/2018**	**8/31/2018**	**$0.00**	**$24,727.01**	**$24,727.01**
Operation & Maintenance Expenses	35	7/15/2018	8/31/2018			
Wireless Internet service	35	7/15/2018	8/31/2018	$0.00	$96.95	$96.95
Fuel for Pump	47	7/15/2018	8/31/2018	$0.00	$21,265.07	$21,265.07
Tools and Supplies	35	7/15/2018	8/31/2018	$0.00	$134.29	$134.29
Operation and maintenance materials	35	7/15/2018	8/31/2018	$0.00	$327.25	$327.25
Pump and Hose Equipment Repair and Replacement	35	7/15/2018	8/31/2018	$0.00	$1,840.95	$1,840.95
Lab Supplies	35	7/15/2018	8/31/2018	$0.00	$37.50	$37.50
Analytical Lab Testing	35	7/15/2018	8/31/2018	$0.00	$150.00	$150.00
Pump Service Technician	35	7/15/2018	8/31/2018	$0.00	$875.00	$875.00
Solar Power Installation (on land)	**23**	**8/1/2018**	**8/31/2018**	**$72,265.56**	**$1,800.00**	**$74,065.56**
20 KW ground mount solar power array purchase with inverters	11	8/1/2018	8/15/2018	$38,329.20	$0.00	$38,329.20
Land levelling for solar power array 1200 square feet	1	8/3/2018	8/4/2018	$800.00	$800.00	$1,600.00
Solar array installation by solar contractor	7	8/16/2018	8/24/2018	$20,000.00	$0.00	$20,000.00
Electrical service hardware	2	8/5/2018	8/7/2018	$1,000.00	$0.00	$1,000.00
6/3 electrical cable and 3/4 marine conduit to pump barge (901 ft)	9	8/6/2018	8/16/2018	$11,136.36	$0.00	$11,136.36
Used Goulds 3196 4x6-13 316 SS pump & motor 1,100 gpm	4	8/7/2018	8/12/2018	$1,000.00	$200.00	$1,200.00
Installation by electrical contractor	5	8/25/2018	8/31/2018	$0.00	$800.00	$800.00
Annual O&M After Solar Installation (repeated each year)	**260**	**9/1/2018**	**8/31/2019**	**$0.00**	**$15,836.22**	**$15,836.22**
Operation & Maintenance Expenses	260	9/1/2018	8/31/2019			
Wireless Internet service	260	9/1/2018	8/31/2019	$0.00	$720.20	$720.20
Spare Parts for Solar Array	364	9/1/2018	8/31/2019	$0.00	$1,911.21	$1,911.21
Tools and Supplies	260	9/1/2018	8/31/2019	$0.00	$1,040.00	$1,040.00
Operation and maintenance supplies / parts	260	9/1/2018	8/31/2019	$0.00	$2,431.00	$2,431.00
Pump and Hose Equipment Repair and Replacement	260	9/1/2018	8/31/2019	$0.00	$1,840.95	$1,840.95
Lab Supplies	260	9/1/2018	8/31/2019	$0.00	$278.57	$278.57
Analytical Lab Testing	260	9/1/2018	8/31/2019	$0.00	$1,114.29	$1,114.29
Pump and Solar Service Technician	260	9/1/2018	8/31/2019	$0.00	$6,500.00	$6,500.00
Utility Power Installation (on Capri)	**9**	**8/1/2018**	**8/13/2018**	**$33,756.36**	**$1,000.00**	**$34,756.36**
Service entrance, CT meter box, and fused disconnect	1	8/1/2018	8/1/2018	$8,315.00	$0.00	$8,315.00
Meter box installation by electrical contractor	2	8/2/2018	8/3/2018	$7,805.00	$0.00	$7,805.00
Power service installation by IID	1	8/4/2018	8/6/2018	$5,500.00	$0.00	$5,500.00
6/3 electrical cable and 3/4" marine conduit to pump barge (901 ft)	1	8/6/2018	8/6/2018	$11,136.36	$0.00	$11,136.36
Used Goulds 3196 4x6-13 316 SS pump & motor 1,100 gpm	4	8/7/2018	8/12/2018	$1,000.00	$200.00	$1,200.00
Pump installation by electrical contractor	1	8/13/2018	8/13/2018	$0.00	$800.00	$800.00
Annual O&M on Utility Power (repeated each year)	**261**	**8/14/2018**	**8/13/2019**	**$0.00**	**$14,089.56**	**$14,089.56**
Operation & Maintenance Expenses	261	8/14/2018	8/13/2019			
Wireless Internet service	261	8/14/2018	8/13/2019	$0.00	$722.97	$722.97
Power for Pumping ($0.14/KWh IID rate)	364	8/14/2018	8/13/2019	$0.00	$1,753.33	$1,753.33
Tools and Supplies	261	8/14/2018	8/13/2019	$0.00	$1,040.00	$1,040.00
Operation and maintenance supplies / parts	261	8/14/2018	8/13/2019	$0.00	$2,440.35	$2,440.35
Pump and Hose Equipment Repair and Replacement	261	8/14/2018	8/13/2019	$0.00	$1,840.95	$1,840.95
Lab Supplies	261	8/14/2018	8/13/2019	$0.00	$279.64	$279.64
Analytical Lab Testing	261	8/14/2018	8/13/2019	$0.00	$1,118.57	$1,118.57
Pump Service Technician	261	8/14/2018	8/13/2019	$0.00	$4,893.75	$4,893.75
Total Direct Cost				**$72,265.56**	**$42,363.23**	**$114,628.79**
Indirect Cost 10% of modified total direct cost						$6,296.32
Totals						$120,925.11
Current O&M Fund - Local Agency Investment Fund (LAIF) Tract 662	©2018 Agess, Inc.					**$178,698.04**
O&M (Fuel Pump) - Years						**0.90**
O&M (Electric Pump with Utility Power) - Years						**3.66**
O&M (Electric Pump with Solar Array Donated) - Years						**11.28**
O&M (Electric Pump with Solar Array) - Years						**1.99**
Needs of Tax income supplement for O&M	Annual (yr 1)			Monthly (yr 1)	DS Lots	Monthly Per Lot
O&M (Fuel Pump)	$197,816.08	12	months	$16,484.67	179	$92.09
O&M (Electric Pump with Utility Power)	$48,845.92	12	months	$4,070.49	179	$22.74
O&M (Electric Pump with Solar Array Donated)	$15,836.22	12	months	$1,319.69	179	$7.37
O&M (Electric Pump with Solar Array)	$89,901.78	12	months	$7,491.82	179	$41.85

Desert Shores Restoration Project: Phase 1				©2018 Sephton Water Technology, Inc.				Pumping Calculations - Scenario without freshwater blending					
Desert Shores Keys Pumping Requirement	Value	Units											
Channels total surface area	28	acres											
Overflow shallow pond/playa surface area	2	acres											
Evaporation/Transpiration annual loss	170.00	acre-feet/year											
Evaporation/Transpiration peak summer loss	27.33	acre-feet/month											
Seepage loss (mean Agrarian study data)	41.06	acre-feet/year											
Seepage loss (peak Agrarian study data)	0.153	acre-feet/day											
Overflow to Playa (circulation outflow)	21.86	acre-feet/year											
Freshwater blend amount	0%												
Freshwater blend (moderates salinity rise)	0	acre-feet/year											
Freshwater blend (stops channel salinity rise)	0	acre-feet/year											
Pumping Rate Requirement	1.09	acre-feet/day											
Pumping Rate Requirement	356,432.12	gallons/day											
Annual average full sun hours (zone 2)	5.5	hours/day											
Pump Capacity Requirement (PV powered)	1,080	gallons/minute											
Pump Capacity Requirement (24 hr power)	248	gallons/minute											
4" fire hose flow resistance coefficient	0.200	Used for 24hr											
5" fire hose flow resistance coefficient	0.040												
6" fire hose flow resistance coefficient	0.025	Used for PV											
Annual Pumping Requirements (PV Solar)	Sea Elevation Head (feet)	Seawater specific gravity	Pump Distance	Efficiency	Resistance in hose (PSI)	Effective PV Pump Head	PV solar Pump HP	PV solar Power KW	Resistance in hose (psi)	Effective 24hr pump head	24hr pump HP	24hr pump KW	Annual Cost IID power
Pump Head Requirement 2018	9.9	1.035	514	84%	14.99	43.36	14.57	10.87	6.30	23.96	1.85	1.38	$1,687.37
Pump Head Requirement 2019	10.9	1.04	544	84%	15.87	46.14	15.58	11.62	6.67	25.71	1.99	1.48	$1,819.29
Pump Head Requirement 2020	11.9	1.045	567	84%	16.54	48.45	16.44	12.26	6.95	27.26	2.12	1.58	$1,938.42
Pump Head Requirement 2021	12.9	1.05	594	84%	17.32	51.01	17.39	12.97	7.28	28.91	2.26	1.68	$2,065.93
Pump Head Requirement 2022	13.9	1.055	614	84%	17.91	53.11	18.19	13.57	7.52	30.37	2.38	1.78	$2,180.64
Pump Head Requirement 2023	14.9	1.06	632	84%	18.43	55.07	18.95	14.13	7.74	31.78	2.51	1.87	$2,292.17
Pump Head Requirement 2024	15.9	1.065	652	84%	19.02	57.15	19.76	14.74	7.99	33.23	2.63	1.96	$2,408.24
Pump Head Requirement 2025	16.9	1.07	670	84%	19.54	59.09	20.53	15.31	8.21	34.62	2.76	2.06	$2,521.14
Pump Head Requirement 2026	17.9	1.075	696	84%	20.3	61.52	21.47	16.01	8.53	36.23	2.90	2.16	$2,650.13
Pump Head Requirement 2027	18.9	1.08	731	84%	21.32	64.5	22.62	16.87	8.96	38.06	3.06	2.28	$2,797.13
Pump Head Requirement 2028	19.9	1.085	758	84%	22.11	66.97	23.59	17.59	9.29	39.67	3.20	2.39	$2,929.41
Pump Head Requirement 2029	20.9	1.09	813	84%	23.71	71.15	25.18	18.78	9.96	42.01	3.41	2.54	$3,116.30
Pump Head Requirement 2030	21.9	1.095	901	84%	26.28	77.34	27.50	20.50	11.04	45.19	3.68	2.75	$3,367.43

Civil Engineering Services - Grading Permit

VEXER ENGINEERING
CIVIL-STRUCTURAL-DESIGN

December 28, 2018

Nathan G. White
CEO & Co-Founder
AGESS, Inc.

Subject: Cost Proposal
Engineering Services for Surveying and Grading Plans
Desert Shores Berm Project

Dear Mr. White:

We hereby propose to provide engineering services for the project mentioned above. We understand that the plans will be used to obtain a permit from the County of Imperial.

I have reviewed the proposed work and have determined a cost for the civil engineering services as follows:

- Surveying ($2,500.00)
- Grading Plans ($2,400.00)

The proposed amount for this scope of work shall include project management, administrative, as well as research and investigation of existing conditions in the amount of $1,600.00. The total cost for the proposed services to be rendered is **$6,500.00**. This amount does not include permit fees or inspection fees set forth by the County or jurisdiction in charge. It does not include any other items not mentioned above.

Payment due for commencement of work is $2,500.00. The remaining balance is due upon completion of the work.

This quote is valid for 90 days, which upon the past date, both parties may re-write the proposal, or the client may request an extension. This contract ends when the plans are approved by the City and when we receive the last payment. I am a registered licensed Civil Engineer with the State of California #74,475. Shall you have any questions, please do not hesitate to call me at (760) 554-9336 or email at vexercon@gmail.com.

Sincerely:

Roberto C. Martinez, PE

Date: _____

Approved by Nathan G. White

653 W Main St. Suite 103 / El Centro, CA 92243
760- 554-9336 Cell. / 760- 352-8100 Office

VEXER ENGINEERING
CIVIL-STRUCTURAL-DESIGN

DESERT SHORES BERM PROJECT
Field Meeting
December 20, 2018

ATTENDEES:

- Tom Sephton (Sephton Water Technology, Inc. / Agess Inc.)
- Armando Martinez (Vexer Engineering)
- Juan C. Platero (Vexer Engineering)

OVERVIEW:

Agess Inc. and Sephton Water Technology, Inc., in cooperation with the State of California's Natural Resources Agency, The EcoMedia Compass non-profit, and the residents of Desert Shores, intend to implement a water level restoration and dust mitigation strategy as well as a water treatment system at the intake channel leading to five (5) perpendicular channels at Desert Shores. The concept is to place Tencate geo-tubes (berms) that will serve as artificial barriers to allow the channels to retain water above the current Salton Sea water level. Once the geo-tubes are placed, water from the Salton Sea will be pumped into the intake channel restoring the five (5) connecting channels to the targeted water levels. The purpose of refilling the Desert Shores keys are the following:

(1) To avoid the channels from drying up completely to become an exposed playa that can lead to dust exposure to residents and thereby become a potential health hazard.
(2) To restore water close to historic levels for recreation with circulation and replenishment to control health hazards from the currently stagnant water.
(3) To implement a water treatment strategy within the keys to bring salinity levels down to 40 parts per thousand which will restore the water habitat to make it livable for fish once again.

STRATEGY:

There are two (2) options for placing the geo-tubes described above.

- **PLAN A**: **"Singular Geo-Tube" Strategy**

  Implementation of this plan calls for one (1) geo-tube to be placed between the previously existing Capri Road and Acapulco Lane peninsulas across the dry intake channel inlet (refer

to **Figure 1**). The geo-tube would be 5 feet in height by 13 feet in width. This geo-tube would be placed at the highest point of the dry boat channel entrance (refer to **Figure 2**) and parallel to the sea shore such that future channel water levels are near five (5) feet above the highest point. The geo-tube will be laid out as to taper upward on each-end against the peninsula banks.

Figure 1

One (1) geo-tube to be placed in the area shown in red above, across the previously existing boat entry channel between the dry Capri Road and Acapulco Lane peninsulas.

Figure 2

Photo of the dry boat entry channel, facing the dry Acapulco Lane peninsula bank. Target water level to be five (5) feet above the highest point of this dry channel inlet (circled in red).

Geotube - Earth Berm Dam

WaterSolve LLC
5031 68th Street SE
Caledonia, MI 49316
ph - 616-575-8693
fax - 616-575-9031
www.gowatersolve.com

Sales Proposal

TO:	AGESS, Inc. Attn: Nathan G. White 3676 Mississippi Street San Diego, CA 92104	**SHIP TO:**	project site Desert Shores, CA

Assumptions: Discounted pricing for pilot testing. Only applied to initial order.

Proposal	Terms	REP	Ship Date	VIA	F.O.B.	Date
AGE110917	Net 30	EF	2 week lead time	Common Carrier	**Delivered**	9-Nov-17
Quantity	**Item Code**	**Description**			**Unit Price**	**Amount***
1 each	Geotube®	30' Circ. X 150' length GT500D Geotube® container			$2,940.00 /each	$2,940.00
	Freight				Included	$0.00

This Sales Proposal is subject to WaterSolve's Standard Terms & Conditions which are incorporated by reference and the additional Terms and Conditions of Sale listed on page 2. This Sales Proposal is valid for 60 days.
CA Contractor's License # 996207

Eric Fish
efish1@roadrunner.com
www.gowatersolve.com

Thank you for this opportunity to quote this project with your company.

Signature & PO#: _____

Solar Energy & Electrical Pump - Estimation of Services

HPE
Hot Purple Energy

Proposal

Hot Purple Energy

Date: 10/30/18
Quote #: 5656
Customer ID:
Expiration Date: 12/30/18

To:

Name **Agess Inc**

Nathan White
City State Zip 1020 Madison Ave
714-262-5177 San Diego CA 92116

	Description	Total
Solar	42-260 solar panels. Installed on a Ground Mount Array. Allog with 1 - 15 Amp 110 power point.	
Pumps	14-1hp pumps. Capable of Moving 1000 gpm w/ 10' of head height. Pumps to be installed with filtering and housing.	
	Permiting not included	
	Security Fence additonal $3,500 est	
	Total	**$68,320.00**

To accept this quotation, sign here and return:

_____

Thank you for your business!

810 N Farrell Dr, Palm Springs, CA 92262 (760)322-4433 service@hotpurpleenergy.com

SITE PLAN
NOT TO SCALE

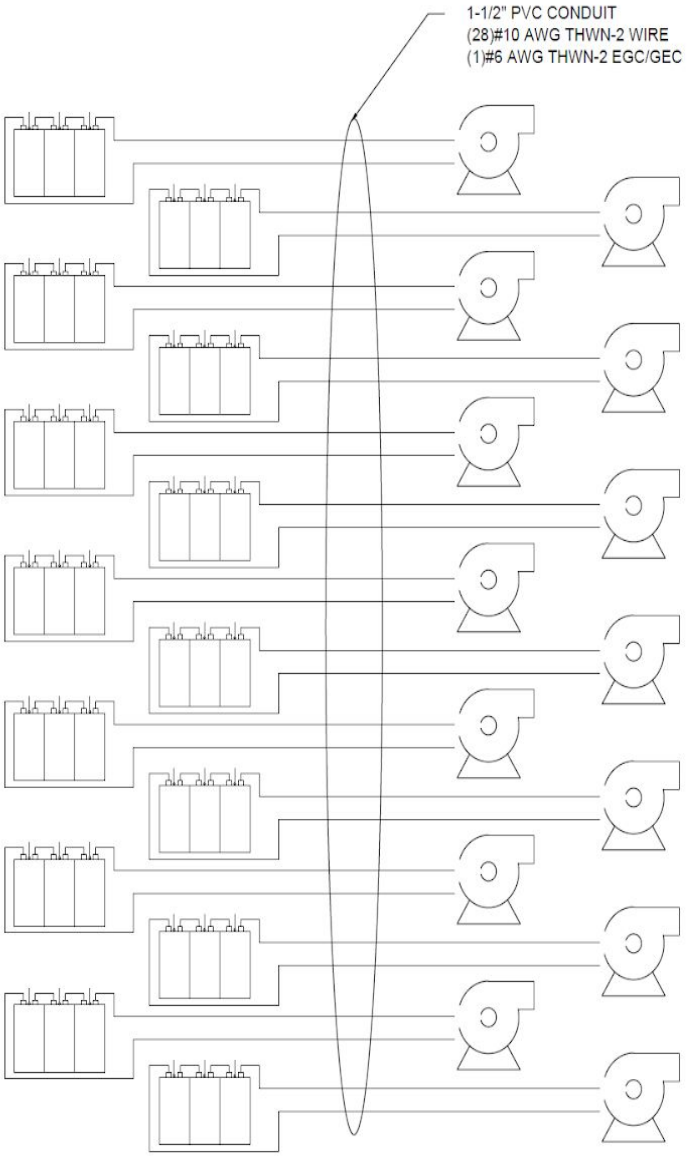
Revisions:	Date:

Liliana Figueroa
760.322.4433 Lic. No. 940550

INTEGRATOR:
HPE Hot Purple Energy
810 N. Farrell Drive
Palm Springs, CA 92262
(760) 322 - 4433 office
License No. 940550
info@HotPurpleEnergy.com
www.HotPurpleEnergy.com

Salton Sea Pump
PROPERTY LINE
154 Acapulco & 3713 Capir Rd
Thermal, CA 92274

Drawn by: LF
Checked by: BD
Date: 12.12.18
Scale: AS NOTED
Job Number:
Sheet Number: PV-1.1
Sheet



(N)42 REC SOLAR REC290TP
SOLAR PANELS IN 14 STRINGS OF 3

EACH STRING OF 3 SOLAR PANELS
CONNECTED TO A SUNRAY
CENTRIFUGAL PUMP SLO-FLO1-1HP
BRUSH DC MOTOR

CENTRIFUGAL PUMP

MAKE	SUNRAY ENGINEERING	
MODEL	SLO-FLO1	
FLOW RATE	100	GPM
MAXIMUM VOLTAGE	90	V
MAXIMUM AMPERAGE	7.5	A

PV MODULE RATINGS @ STC (NEC 690.8)

MODULE MAKE	REC SOLAR	
MODULE MODEL	REC290TP	
MAX POWER-POINT CURRENT (I_{MP})	9.05	A
MAX POWER-POINT VOLTAGE (V_{MP})	32.1	V
OPEN-CIRCUIT VOLTAGE (V_{OC})	38.6	V
SHORT-CIRCUIT CURRENT (I_{SC})	9.71	A
MAX SERIES FUSE (OCPD)	20	A
MAXIMUM POWER (P_{MAX})	290	W

Revisions:	Date:

Liliana Figueroa
760.322.4433 Lic. No. 940550

INTEGRATOR:
HPE Hot Purple Energy
810 N. Farrell Drive
Palm Springs, CA 92262
(760) 322 - 4433 office
License No. 940550
info@HotPurpleEnergy.com
www.HotPurpleEnergy.com

Salton Sea Pump
ELECTRICAL DIAGRAM
154 Acapulco & 3713 Capir Rd
Thermal, CA 92274

Drawn by: LF
Checked by: BD
Date: 12.12.18
Scale: AS NOTED
Job Number:
Sheet Number: PV-3.0
Sheet

Donated Pump Barge - Poseidon

Community Support - Earth Day 2017

Community Support - Earth Day 2018