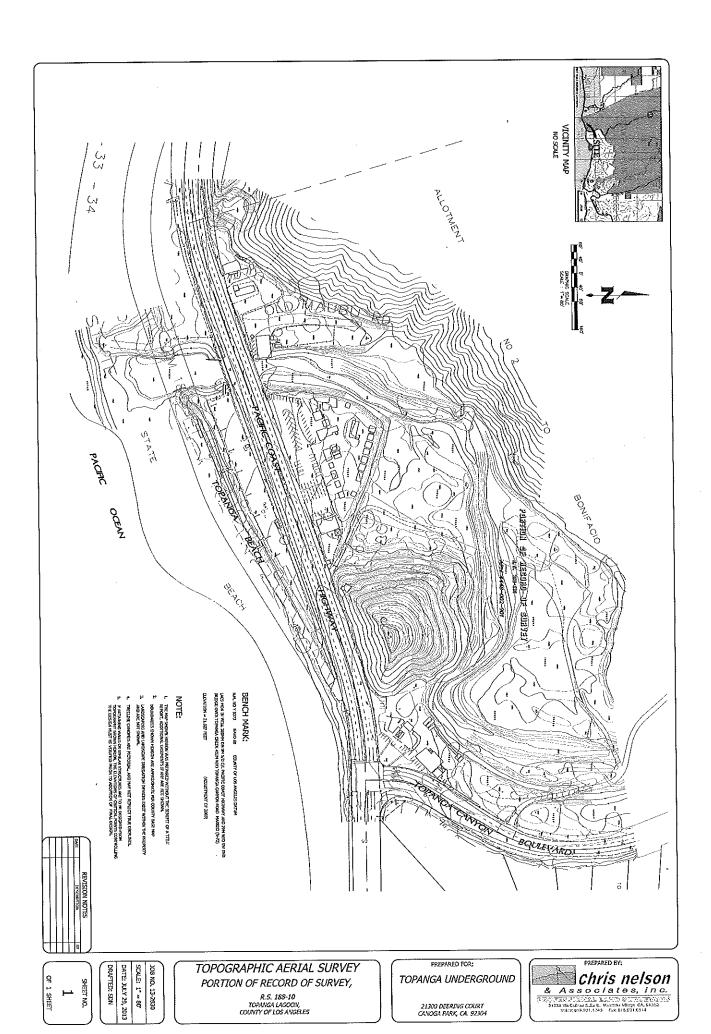
# **APPENDIX H- Septic System Map and Plans**

- Topographical Aerial Survey, Topanga Lagoon
   Topanga Beach Lifeguard Headquarters/Restroom Station Septic System Upgrade, Project Drawings



# PROJECT SITE Thoman Broar, 630-106 (2003 EDITION)

# COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

# TOPANGA BEACH LIFEGUARD HEADQUARTERS/RESTROOM STATION SEPTIC SYSTEM UPGRADE



TOPANGA BEACH LIFEGUARD HEADQUARTERS/RESTROOM STATION

## INDEX TO PROJECT DRAWINGS

SHEET	1	TITLE SHEET
SHEET	2	REMOVAL PLAN
SHEET	3	INSTALLATION PLAN
SHEET	4	SEPTIC TANK INSTALLATION DETAILS
SHEET	5	AX100 FILTER & SEEPAGE PITS INSTALLATION
SHEET	6	PLUMBING SCHEDULE
SHEET	7	SEEPAGE PIT DETAILS
SHEET	8	TANK DETAILS
SHEET	9	AX 100 ADVANTEX AND SALCOR UV UNIT DETAILS
SHEET	10	CHLORINATION UNIT DETAILS
SHEET	11	GENERAL NOTES

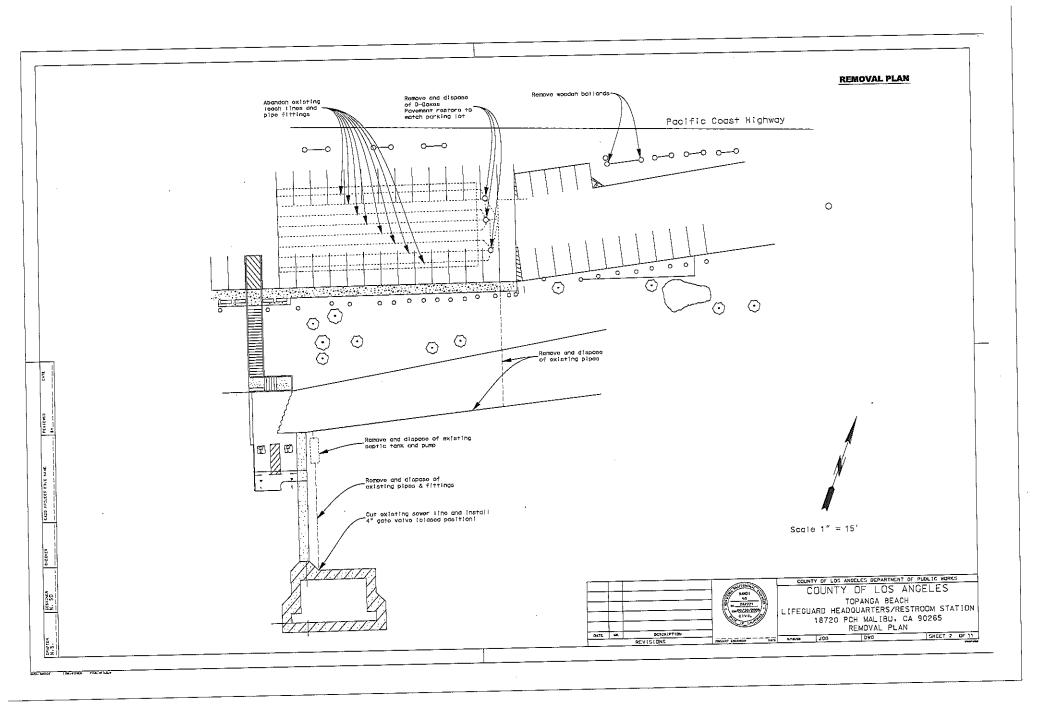


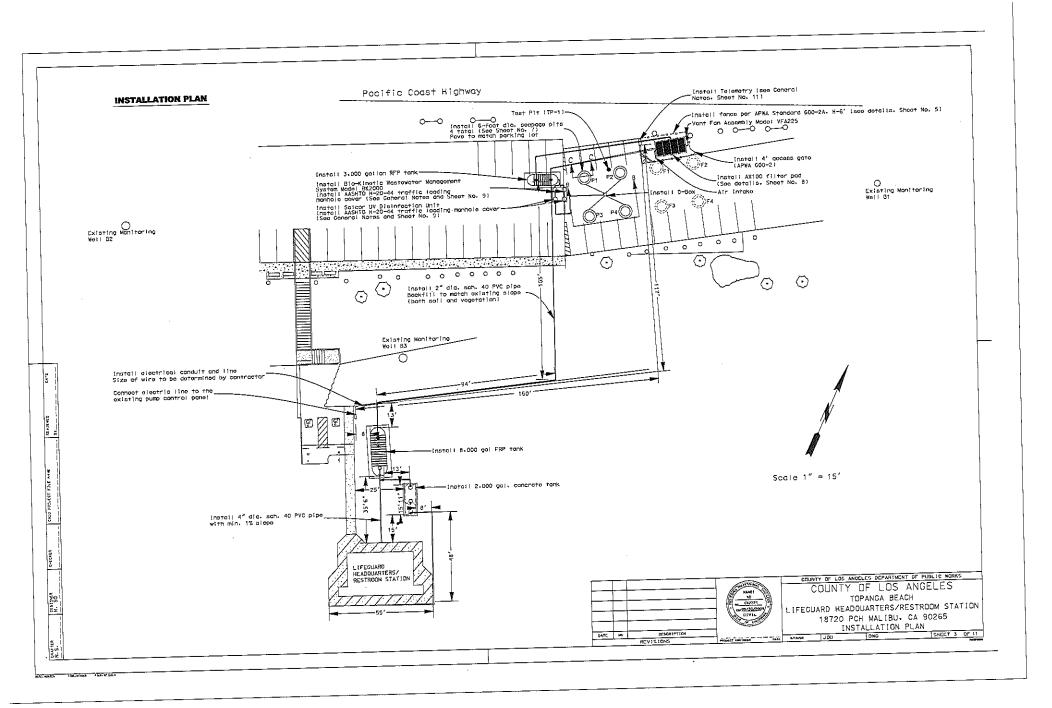
# For Proposal Only

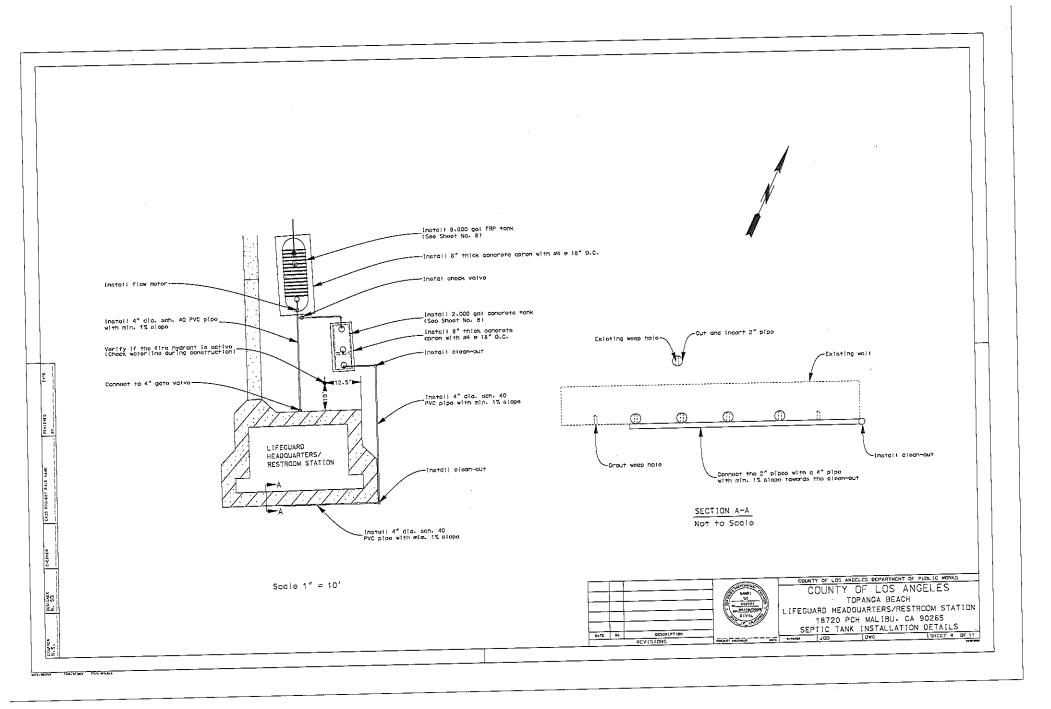
	APPROVED DEAN ELECTATIONAL VELICO DISECUTOR OF BRIBLIC BORKS			
TWO DAYS DEFORE YOU DIG	GY OUTS Detailer Data		Ш	
1	HCCONALCHOCD			
CALL USATOLL FREE	ASSESSMENT SECTION DATE DATE			
1 000 207 2000	RURATTED			
1-800-227-2600	BY	DATE	MK	DESCRIPTION
1	- LAG			REVISIONS

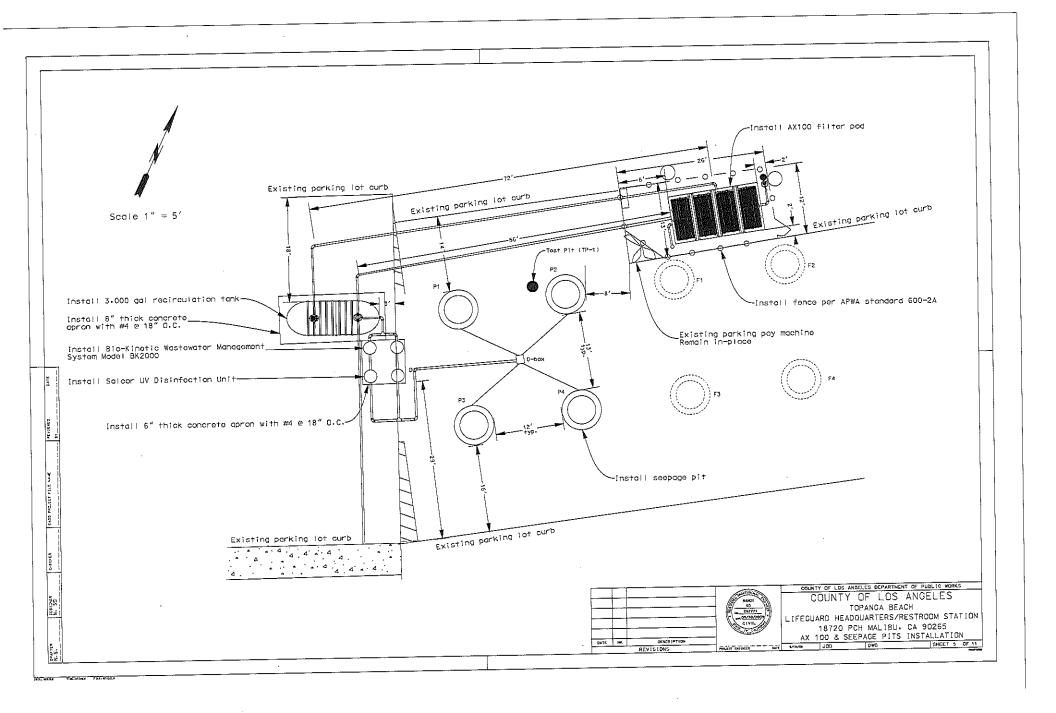


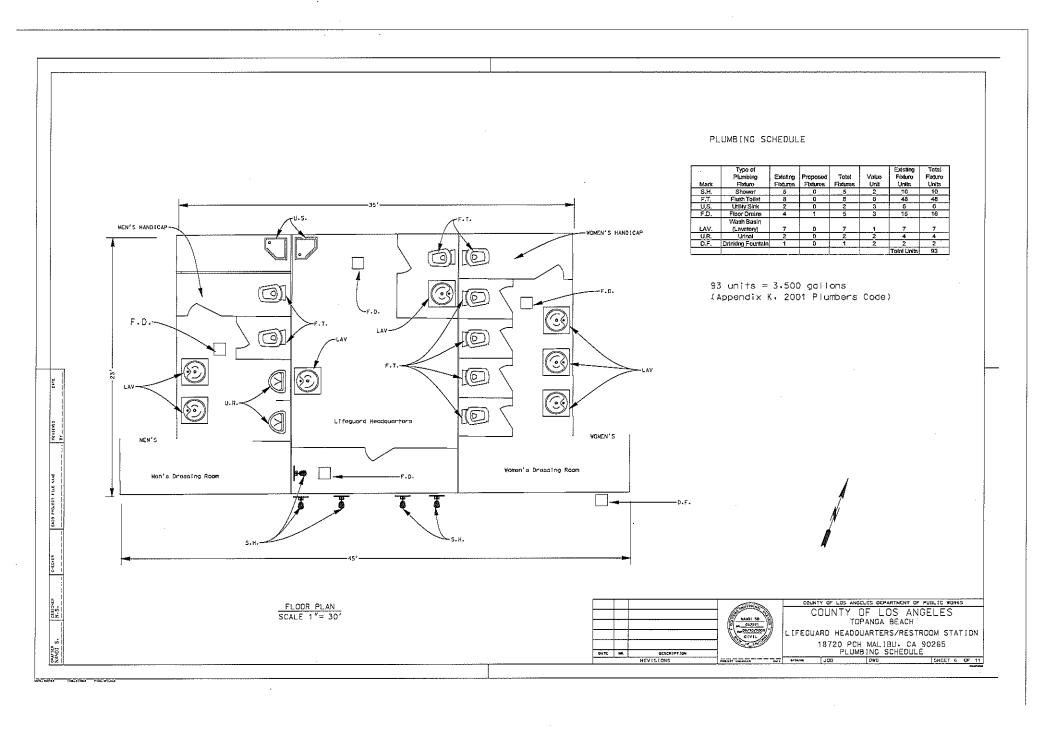
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
COUNTY OF LOS ANGELES
TOPANGA BEACH
LIFEGUARD HEADQUARTERS/RESTROOM STATION
18720 PCH MALIBU. CA 90265
SEPTIC SYSTEM UPGRADE

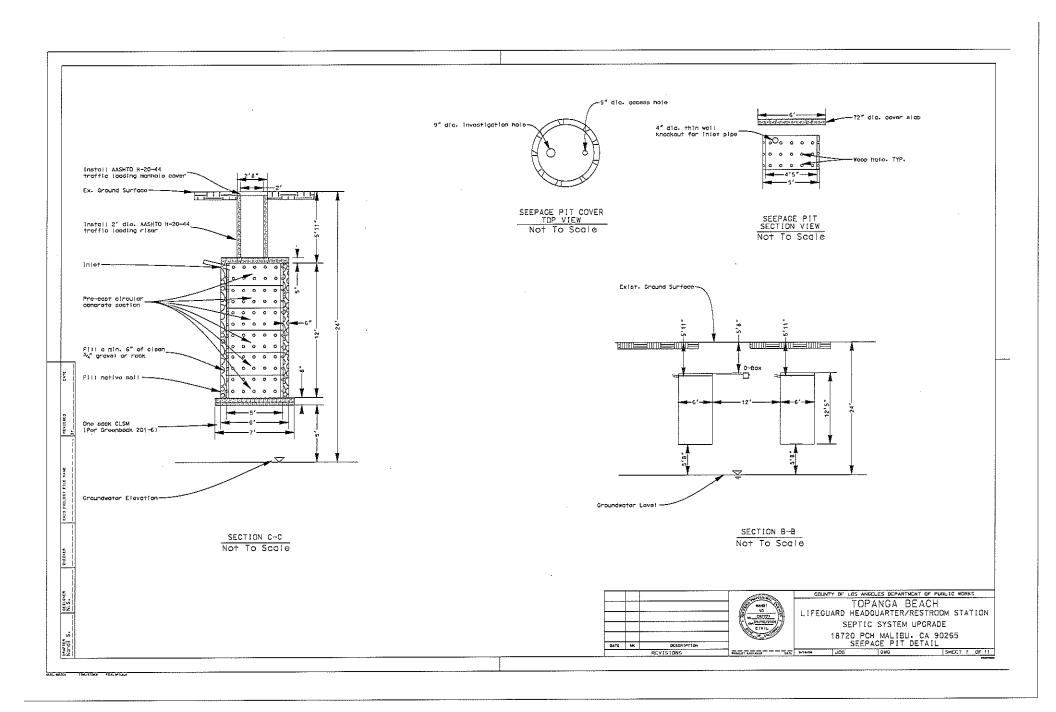


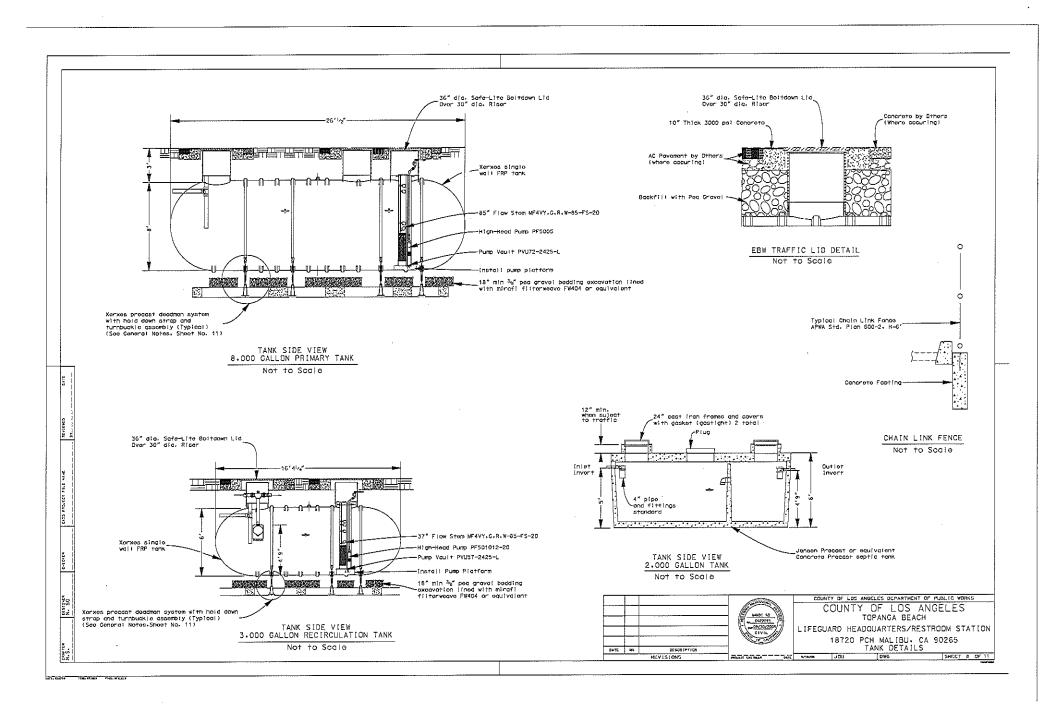


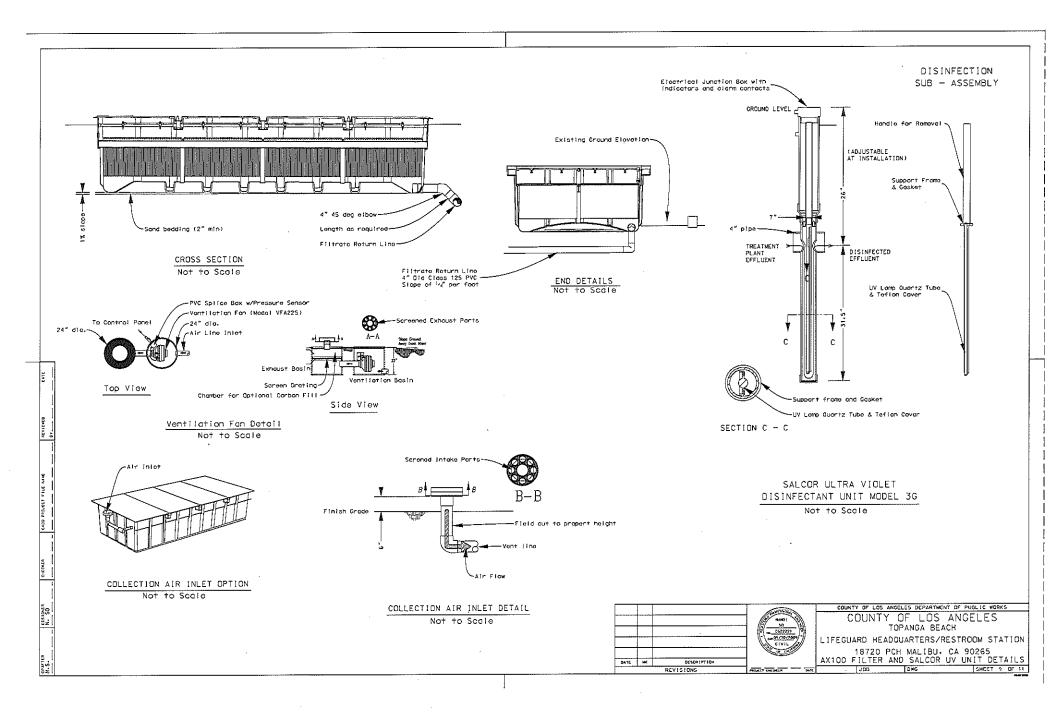


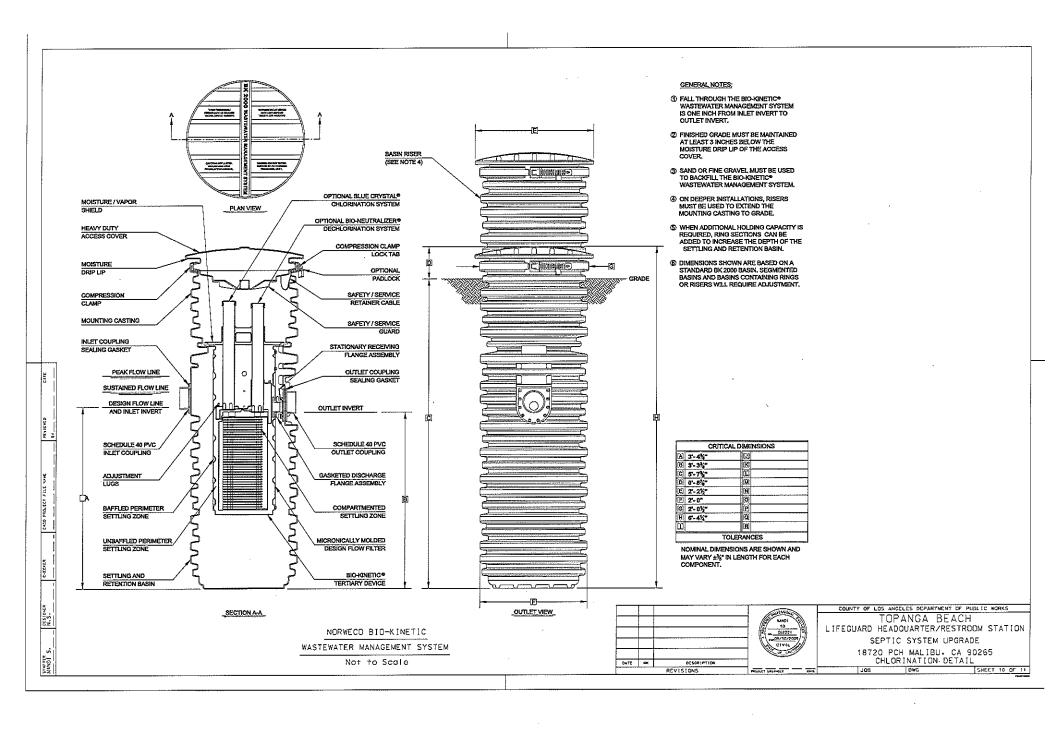












### **GENERAL NOTES:**

- The contractor shall be responsible for the disposal of removed and expoveted materials to proper disposal sites and verify all stilly lines before exception.
- 2. The Adventex AX100 filter pot shall be equipped with monufacturor supplied telemetry and control system. The audible and visual alarm panel shall be instabled each to the filter pod at a location shown on the plan. The panel shall be weatherproofed and mounted on post or penel mounting assemblies. A telephone line shall be instabled for the telemetry.
- The atrop instellation requirement (location & quantity) for the tank, shall be as recommended by the tank manufacturer.
- 4. The location of existing sewer system and utility lines are approximate. The contractor shall varify the octual location prior to excavation.
- 5. A pro-construction mosting will be hold prior to any site work. Attendes will insulate the following individuals: IA County DPM Engineer, JOC Contractor. GBM Provider. Advantox Degler. Beaches and Herbors Project Manager, and Office of Affirmative Action Deficer.
- 6. An Operation & Maintenance Manual is to be provided by the contractor upon
- 7. Saloor UV Disinfectant Unit shall be installed following the manufacturers specification.
- Electrical power shall be provided to the Salcor DV Disinfection Unit and the tank pumps (240 VAC single phase) per manufacturer's installation leatructions.
- The contractor shall provide and maintain a restroom facility for the public to use until the new System is available. Contractor shall provide at least four (4) portable tollets, one (1) ADA partable tollet, and one (1) hand wesh station.
- 10. All excavations shall be adequately shared. All excavation shall comply with the most current occupational safety and health administration standards.
- Backfill of all excavation to be compacted to 90% relative compaction. Restore Payament to match parking lot.
- 12. Deadman(size and location) shall be installed por manufacturers specification. Connete mix shall be treated as a Special Exposure Mix actogory SE(Sovor Exposure) per Table No. 201–1.1.3(A) of the Greenisch 2006 adition.
- All change orders or additional work shall be approved by LA County DPW prior to initiating additional work.
- 14. Norwead Bio-Kinetic Wastewater Management System Model BK 2000 shall be installed per manufacturers specification. Bio-Nourralizer Chiefination tablets and Bio-Neutralizer Death orination tablets! smoth supply aball be provided by the contractor.
- 15. As-builts plans (paper and digital format: dxf. dwg or dgn) to be submitted to the Department of Public Works.
- 16. Turnbuckle assembly shall be cooted to prevent corresion.
- 17. Contractor shall be responsible for connecting the telephane line from the Verizon access point to the telemetry system for the Advantex System. They shall also provide the water fight Namp box or equivalent and a light read as required by Verizon.
- Replace the existing pump with an Orence PF5005 pump or equivalent for the primary tank. Pump voltage is 240 VAC single phase.
- 19.Storage and staging areas will be distated by Beaches and Marbors of the pre-construction meeting. Beach driving rules and regulations shall be followed by the contractor and sub-contractor of all time.
- 20. Contractor shell contact UNDERGROUND SERVICE ALERT (USA) AT (800)422-4133
- Contractor shall identify and install a connection to a portable water source for the future Advantex AXTOO maintenance.
- 22. Construction hours shall be from 7:00 a.m. to 5:00 p.m. Monday to Friday.
- 23. Contractor shall provide temporary fencing per USC during construction.
- 24. Advantox installer and 0 & M provider shall be cartified for waste water treatment system.
- 25. Contractor shall provide access to Los Angeles County Lifeguard at all time.
- 26. The contractor shall verify all dimension and conditions at the job site and notify the Department of Public Works of any discrepancies found prior to the start of construction.
- 27. All utilities shall be protected in place, unless otherwise noted or specified during all phases of construction. In case of utility related amergancy, immediately notify the Department of Public Works.
- 28. The contractor shall coordinate traffic, laydown area, utility shutoff, access to work sites, materials and equipment storage and any other litems required notify the Department of Public Works.

- 29. The location of existing utilities shown on the plans are based on the best information available. The contractor shall be responsible to accurately identify the location of utilities. The contractor shall be responsible for any damage cause to utilities that are identified to remain.
- 30. Improvements identified not to be demolished shall be protected in piace. Any improvements disturbed by the contractor outside of the demolified iffairs shall be repaired or replaced in kind as required by the Department of Public Works.
- 31. The contractor shall be responsible for all safety issues at the site.
- 32. A pertified Adventex D&M company shall provide service maintenance for a year.

This plan set is based upon the expected flows and waste strengths for the purpose of serving the Topanga Baseh Soptic System. Any changes in usage that would affect flows or waste strength requires a review by this dealgner.

It is assumed the Topanga Basch Septic System serving the public restream and the lifequent headquarters has the same waste strength as the residential waste strength.

Design Bds1s: Average (gpd)

Expected Influent Characteristics:

60-70% reduction of Nitrogen

Choractor		Avorago	Weekly Peak	Rarely Exceeds
		(mg/L)	(mg/L)	(mg/L)
800		150	250	500
TSS	•	40	75	150
TKN		65	75	150
FOC		20	25	30

AX 100 Taxtile Treatment System
Low to moderate loading rates: eBOD and TSS 5 mg/L
High loading rate: BOD and TSS 15-25 mg/L

Saloor UV Olainfootion Unit Supponded Solida 30 mg/L 5-acy 800 30 mg/L feedi coliform roduction exceds 3-logs or 99.9% at the end of the UV lamp life

AX100 Filter capacity 5.000 GPD Saleor UV Disinfoction unit capacity 4.320 GPD

Oo not dispose of toxics or chomical into system. Exemio: restourant degreesers and alegars, wax stripper for limbioum, carpet shampoo, and weste products any other toxics.

Water aeftener brine discharge is stronly prohibited from being discharged into the Advantax advanced treatment system. Failure to adhere to this policy will void Orapoo's werrenty.

DATE M DESCRIPTION

REVISIONS

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

COUNTY OF LOS ANGELES

TOPANGA BEACH

LIFEGUARD HEADQUARTERS/RESTROOM STATION 18720 PCH MALIBU, CA 90265

General Notes

DATE SYSTEM JUST

DWG

SHEET 11 OF 11

DANTER NAVD) S.

GESTEACH N.S.

rejes etrelen i lines af jude i filos ne has