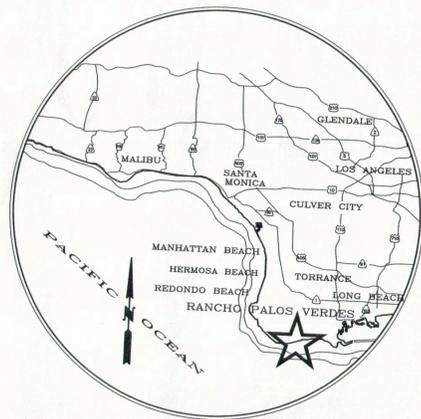
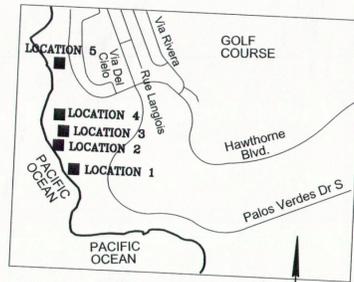


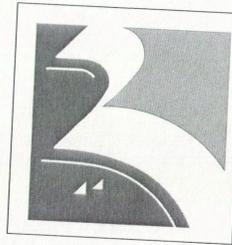
CITY OF RANCHO PALOS VERDES POINT VICENTE INTERPRETIVE CENTER (PVIC) AND SUB REGION ONE BLUFF TOP DRAINAGE CONTROL PROJECT # 015012



LOCATION MAP
NO SCALE



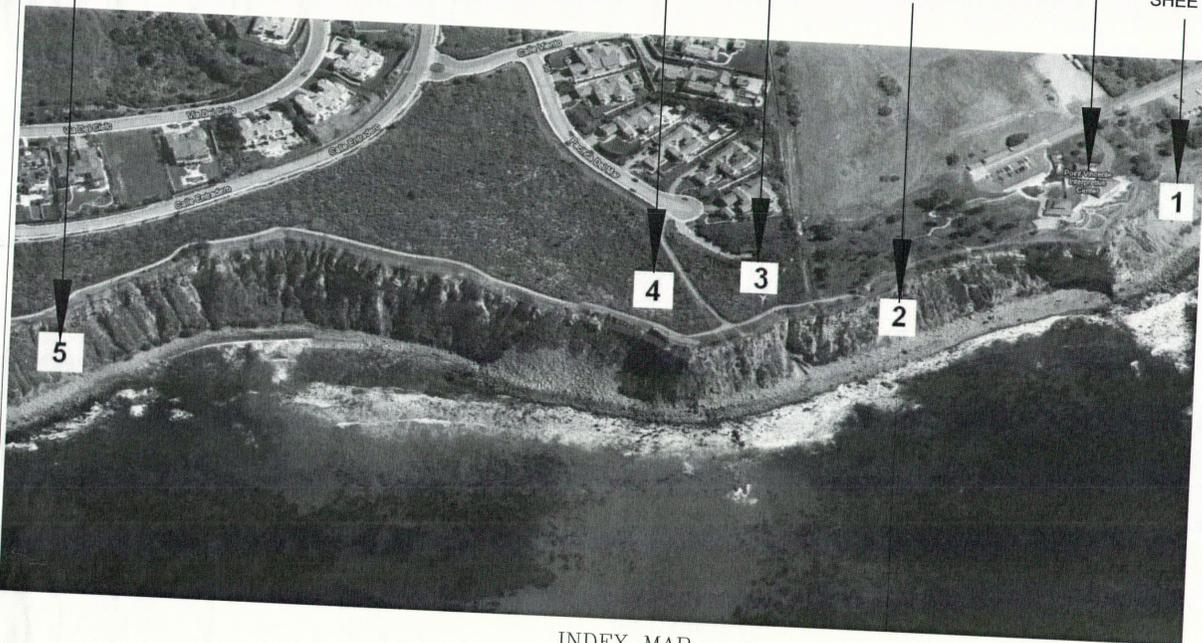
VICINITY MAP
NO SCALE



**CITY OF RANCHO PALOS VERDES
BUILDING & SAFETY DIVISION
"REVIEWED FOR CODE COMPLIANCE"**
This set of plans & specifications must be kept on the job at all times and it is unlawful to make any changes or alterations on same without written permission from Building & Safety, City of Rancho Palos Verdes. The stamping of these plans and specifications SHALL NOT be held to permit or be approved of the violation of any provisions on any City Ordinance or State Law.

Date: 12-7-12
By: RC

SHEET 4



INDEX MAP
NO SCALE

SHEET INDEX

SHEET#	DESCRIPTION
1	TITLE SHEET & INDEX MAP
2	PLAN AND SECTIONS - LOCATION 1 & 2
3	PLAN AND SECTIONS - LOCATION 3 & 4
4	PLAN AND SECTIONS - LOCATION 5

UTILITY COMPANY CONTACT INFORMATION
CITY OF RANCHO PALOS VERDES (310) 544-5252
SOUTHERN CALIFORNIA EDISON COMPANY (310) 783-1156
SOUTHERN CALIFORNIA GAS COMPANY (310) 687-2020
VERIZON (310) 793-4159
CALIFORNIA WATER SERVICE COMPANY (310) 541-2438
COX COMMUNICATIONS (310) 551-5020 X30
COUNTY OF LOS ANGELES, DEPARTMENT OF PUBLIC WORKS (626) 458-3109
COUNTY OF LOS ANGELES, DEPARTMENT OF PUBLIC WORKS (SEWER) (626) 458-4357
SANITATION DISTRICT OF LOS ANGELES COUNTY (562) 699-7411 X1205
USA (800) 227-2600

NOTICE: ACTUAL EXISTING SITE CONDITIONS MAY DIFFER FROM THOSE SHOWN. THE CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO BIDDING. LOCATION OF EXISTING AND ABANDONED UTILITIES IS UNKNOWN OR FROM RECORD DATA ONLY. THE CONTRACTOR SHALL VERIFY TO HIS SATISFACTION LOCATIONS OF ALL UTILITIES PRIOR TO BIDDING AND CONSTRUCTION. CONTRACTOR SHALL MAINTAIN AS-BUILT RECORDS OF EXISTING UTILITIES AND INFORM THE ENGINEER IN CASE OF DISCREPANCIES.

THE CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED USE OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

THE CONTRACTOR SHALL VERIFY THE PRESENCE, LOCATION, AND MATERIAL OF ALL AFFECTED OR CONFLICTING UTILITIES AS NECESSARY FOR CONSTRUCTION. UTILITY VERIFICATION AND NOTIFICATION SHALL BE MADE IN A TIMELY MANNER SO AS TO ALLOW FOR ALTERNATIVE PLANNING WITHOUT AFFECTING THE CONSTRUCTION SCHEDULE MATERIALLY.

GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK), THE CITY OF RANCHO PALOS VERDES STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION, THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS & SPECIFICATIONS, & PROJECT SPECIAL PROVISIONS, EACH OF THE MOST RECENT DATE.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF RANCHO PALOS VERDES AT LEAST TWO WORKING DAYS (48 HOURS) PRIOR TO STARTING CONSTRUCTION, AT (310) 544-5252.
- ALL UNDERGROUND FACILITIES SHALL BE INSTALLED PRIOR TO SURFACING OF STREETS. THE INSTALLATION OF ALL UNDERGROUND FACILITIES CROSSING EXISTING ARTERIAL HIGHWAYS REQUIRES BORING OR JACKING, UNLESS OTHERWISE APPROVED BY THE CITY OF RANCHO PALOS VERDES.
- TRAFFIC CONTROL AND SAFETY DEVICES SHALL BE INSTALLED PER THE 2012 EDITION OF THE CALIFORNIA MUTCD, AND TO THE SATISFACTION OF THE CITY OF RANCHO PALOS VERDES.
- EXISTING PAVEMENT DISTURBED BY THE CONSTRUCTION OF UNDERGROUND INSTALLATIONS SHALL BE REPLACED IN KIND & RESTRIPE. A PERMIT ISSUED BY THE CITY OF RANCHO PALOS VERDES IS REQUIRED.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR AND COORDINATE THE RELOCATION OF ANY EXISTING UTILITIES DEEMED NECESSARY BY THE PROPOSED IMPROVEMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING UTILITIES. ANY DAMAGE TO SUCH FACILITIES CAUSED BY HIS WORK SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE WITHIN 48 HOURS.
- THE CONTRACTOR SHALL MAINTAIN ADJACENT AREA IN A NEAT, CLEAN, DUST FREE AND SANITARY CONDITION TO THE SATISFACTION OF THE CITY PROJECT MANAGER. THE ADJACENT AREA SHALL BE KEPT CLEAN OF DEBRIS, WITH DUST AND OTHER NUISANCES BEING CONTROLLED AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CLEAN UP ON ADJACENT STREETS AFFECTED BY HIS CONSTRUCTION. STOCKPILING OF MATERIALS WITHIN THE PUBLIC RIGHT-OF-WAY IS NOT ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY PROJECT MANAGER.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED O.S.H.A. PERMITS PRIOR TO CONSTRUCTION OF UNDERGROUND FACILITIES.
- WHEELCHAIR RAMPS, DRIVEWAY APRONS, CURBS, OR GUTTERS DISTURBED BY CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. A PERMIT ISSUED BY THE CITY OF RANCHO PALOS VERDES IS REQUIRED.
- ALL SAWCUTS SHALL BE DONE BY THE WET-CUT METHOD, UNLESS OTHERWISE APPROVED BY THE ENGINEER, AND ALL SLURRY SHALL BE VACUUM REMOVED.
- NEW CONCRETE SHALL MATCH EXISTING CONCRETE IN COLOR, FINISH, AND TEXTURE, TO THE APPROVAL OF THE ENGINEER.
- CONSTRUCTION SHALL BE ADJUSTED AS NECESSARY TO MATCH EXISTING CONDITIONS, USES, AND PROVIDE POSITIVE SURFACE DRAINAGE. EXACT LIMITS AND CONFIGURATION OF WORK TO BE ADJUSTED AS DIRECTED BY THE ENGINEER IN THE FIELD.
- TOPOGRAPHIC INFORMATION SHOWN HEREIN HAS BEEN PROVIDED BY THE CITY OF RANCHO PALOS VERDES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE CORRECTNESS OF TOPOGRAPHIC INFORMATION FOR HIS OWN PURPOSES.
- THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION MARKINGS FROM THE PROJECT, INCLUDING THOSE PLACED FOR UTILITY LOCATING AND CONSTRUCTION SURVEYING.
- ALL PORTLAND CEMENT CONCRETE SHALL REACH A COMPRESSIVE STRENGTH OF 2500 PSI WITHIN 3 DAYS OF PLACEMENT.
- NO WORK IS ALLOWED DURING GNATCATCHER NESTING SEASON FROM FEBRUARY 15TH TO AUGUST 30TH.
- THESE NOTES SHALL BE USED IN CONJUNCTION WITH THE PLANS AND SPECIFICATIONS, ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CITY PROJECT MANAGER.
- THIS WORK SHALL BE INSTALLED BY A CALIFORNIA STATE LICENSED CONTRACTOR A, WHO SHALL CARRY WORKMAN'S COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE AS REQUIRED BY THE CITY OF RANCHO PALOS VERDES.
- THE CONTRACTOR SHALL ARRANGE AND PAY FOR ALL REQUIRED PERMITS PRIOR TO THE START OF CONSTRUCTION (PERMIT ISSUED BY THE CITY OF RANCHO PALOS VERDES WILL BE NO FEE), AND ARRANGE AND PAY FOR ALL REQUIRED DEPUTY OR SPECIAL INSPECTIONS.
- THE CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH DEMOLITION OR CONSTRUCTION SHOWN WHEN IT IS OBVIOUS THAT UNKNOWN CONDITIONS, OBJECTS OR GRADE CHANGES EXIST THAT MAY HAVE NOT BEEN KNOWN DURING THE PREPARATION OF THIS PLAN. SUCH CONDITIONS, OBJECTS, OR GRADE CHANGES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CITY REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTICE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY POWER, WATER, AND LIGHTING AS REQUIRED TO PERFORM THE WORK. AT NO TIME DURING CONSTRUCTION SHALL WATER AND POWER BE TURNED OFF OR DISTURBED TO THE PVIC BUILDING AND THE REST OF THE PARK FACILITY.
- THE CONTRACTOR SHALL KEEP THE PREMISES CLEAN AND FREE OF EXCESS EQUIPMENT, MATERIALS AND RUBBISH INCIDENTAL TO THE WORK. ALL CONSTRUCTION DEBRIS SHALL BE CLEARED FROM THE SITE AT THE END OF EACH DAY.
- CONTRACTOR'S ON-SITE DUMPSTER MUST BE FROM THE CITY OF RANCHO PALOS VERDES APPROVED COMPANIES.
- ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF PROPERLY AND IN ACCORDANCE WITH THE PROCEDURES STATED IN THE APPENDIX I, WASTE MANAGEMENT PLANNING FOR CONSTRUCTION AND DEMOLITION (C&D) PROJECTS OF THE BID DOCUMENTS.
- CONSTRUCTION CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE SAFETY OF ALL PERSONS AND PROPERTY IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS. CONSTRUCTION CONTRACTOR AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONALS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
- THE CONTRACTOR SHALL FOLLOW THE NATIONAL POLLUTANT DISCHARGE ELIMINATION (NPDES) GUIDELINES.
- ALL WORK MUST BE COMPLETED WITHIN 4 WEEKS FROM NOTICE TO PROCEED. LIQUIDATED DAMAGES \$ 500.00 PER DAY EVERY ADDITIONAL DAYS. WORKING DAYS ARE MONDAY THRU SUNDAY. ANY ADDITIONAL COST ASSOCIATED WITH ANY WORK WHICH NEEDS TO BE DONE AFTER BUSINESS HOURS, ON THE WEEKENDS OR HOLIDAYS TO COMPLETE THE WORK WITHIN SCHEDULE IS DEEMED INCLUDED IN THE BID AMOUNT AND THE CITY SHALL NOT PAY ANY ADDITIONAL COST THEREFOR.
- ALL THE ITEM/ EQUIPMENTS NOT REMOVED AS A PART OF THE CONTRACT MUST BE PROTECTED IN PLACE AND ADJUSTED BY THE CONTRACTOR.

30. FINAL GRADING & DRAINAGE CERTIFICATION Req. on City form.

BEST MANAGEMENT PRACTICES

- WM-1 MATERIAL DELIVERY AND STORAGE**
Provide a material storage area with secondary containment and/or weather protection. Note the maintenance practices and schedule proposed for this area.
- WM-2 MATERIAL USE**
Hazardous materials, fertilizers, pesticides, plasters, solvents, paints, and other compounds must be properly handled in order to reduce the risk of pollution or contamination. Training and information on procedures for the proper use of all materials must be available to the employees that apply such materials.
- WM-3 STOCKPILE MANAGEMENT**
Ensure that all stockpiles are properly covered and contained, so that no run-off may occur.
- WM-4 SPILL PREVENTION AND CONTROL**
Identify spill prevention and control measures that will be taken for all proposed materials. Identify the methods, by which accidental spills will be cleaned and properly disposed of.
- WM-5 SOLID WASTE MANAGEMENT**
Provide designated waste collection areas and containers. Arrange for regular disposal. Provide covered storage with secondary containment. Containers are required to protect waste from rain to pollution and prevent wind dispersal.
- WM-6 HAZARDOUS WASTE MANAGEMENT**
Hazardous materials must be disposed of in accordance with State and Federal regulations. Identify the proposed methods of disposal and any special handling contracts that may be applicable.
- WM-7 CONTAMINATED SOIL MANAGEMENT**
Prevent or reduce the discharge of pollutants to stormwater from contaminated soil and highly acidic or alkaline soils by conducting preconstruction surveys, inspecting excavations regularly, and remediating contaminated soil promptly.
- WM-8 CONCRETE WASTE MANAGEMENT**
Store dry and wet materials under cover. Avoid on-site washout except in designated areas away from drains, ditches, streets, and streams. Concrete waste deposited on site shall set-up, be broken apart, and disposed of properly. Containment and proper disposal is required for all concrete waste.
- WM-9 SANITARY/SEPTIC WASTE MANAGEMENT**
Untreated raw wastewater is not to be discharged or buried. Sanitary sewer facilities on site are required to be in compliance with local health agency requirements. Sanitary or septic wastes must be treated or disposed of in accordance with State and local requirements.
- WM-10 LIQUID WASTE MANAGEMENT**
Liquid waste is not to be discharged or buried. Liquid waste disposal on site is required to be in compliance with local health agency requirements.
- TC-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT**
A stabilized entrance/exit is required for all construction sites to ensure that dirt and debris are not tracked onto the road or adjacent property. Maintenance of such a system is required for the duration of the project. Such stabilization may be of rock or paved.
- SE-6 GRAVEL BAG**
Eroded sediments must be retained on the site and not permitted to enter the drainage system. May be waived at the sole discretion of the City inspector if other erosion control BMPs are deemed sufficient.
- SE-7 STREET SWEEP**
- SE-10 SD INLET PROT.**
- WE-1 WIND EROSION CONTROL**
Water areas where wind conditions are causing migration of visible dust more than 100' from the active source.
- NS-1 WATER CONSERVATION PRACTICES**
Inspect site during project execution for evidence of illicit discharges or illegal dumping. Remove, dispose and replace damaged, deteriorated or otherwise unsuitable BMPs.
- NS-2 DEWATERING OPERATIONS**
Inspect site during project to remove non-storm water and accumulated precipitation.
- NS-3 PAVING AND GRINDING OPERATIONS**
Inspect and maintain machinery regularly to minimize leaks and drips. Bi-weekly, ensure that employees and subcontractors are implementing appropriate measures during paving operations. Cover storm drain inlets with a solid cover, not filter fabric, except during rain.
- NS-6 ILLICIT CONNECTION/ILLEGAL DISCHARGE REPORTING**
Notify the Resident Engineer of any illicit discharges or illegal dumping incidents at the time of discovery. Make sure all reports and documents are filed out.
- NS-7 POTABLE WATER/IRRIGATION**
Discharge of potential pollutants will be inspected weekly.
- NS-8 VEHICLE AND EQUIPMENT CLEANING**
Inspect Vehicle and Equipment Cleaning practices daily, and assure that no pollutants are running off the designated clean off area. The clean off area, should be secure and safe from run off onto the site. Notify the RE if incidents of runoff occur.
- NS-9 VEHICLE AND EQUIPMENT FUELING**
Inspect Vehicle and Equipment Fueling practices daily, and assure that no pollutants are running off the designated clean off area. The clean off area, should be secure and safe from run off onto the site. Notify the RE if incidents of runoff occur.
- NS-10 VEHICLE AND EQUIPMENT MAINTENANCE**
Inspect Vehicle and Equipment Maintenance practices daily, and assure that no pollutants are running off the designated clean off area. The clean off area, should be secure and safe from run off onto the site. Notify the RE if incidents of runoff occur.
- NS-11 PILE DRIVING OPERATIONS**
Ensure proper control and use of equipment, materials, and waste products from pile driving operations to reduce discharge of potential pollutants offsite.
- NS-12 CONCRETE CURING**
Ensure that employees and sub contractors implement appropriate measures for storage and handling of curing compounds. Inspect cure containers and spray equipment for leaks and spills daily at the beginning and end of shift when this operation is to be used. Inspect any diversion devices for debris, remove debris as necessary.
- NS-13 CONCRETE FINISHING**

UNDERGROUND SERVICE ALERT (USA)
IT'S THE LAW!
DIAL BEFORE YOU DIG!
DIGIALERT
811
Know what's below. Call before you dig.

NO.	DATE	DESCRIPTION	APPROVED

DESIGNED	CK
DRAWN	CK
CHECKED	CS
DATE	10/4/12

PLANS PREPARED BY:
KOA CORPORATION
CBM CONSULTING
1411 W. 190TH ST., SUITE 625
GARDENA, CA 90248
Tel: (310) 328-0102
Fax: (310) 328-1021
CBM PROJ# 3050

CITY OF RANCHO PALOS VERDES
Professional Engineer Seal: EXP. 6-30-14, State of California



POINT VICENTE INTERPRETIVE CENTER
AND SUB REGION ONE BLUFF TOP DRAINAGE CONTROL

CITY OF RANCHO PALOS VERDES
DIRECTOR OF PUBLIC WORKS
LES JONES
APPROVED BY SENIOR ENGINEER, P.E.
DATE: 1/24/2013

RECEIVED
DEC 05 2012
BUILDING SAFETY