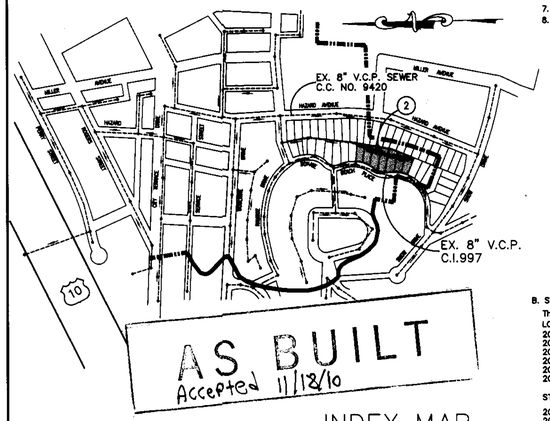
BENCHMARK DESCRIPTION

DWP BM TAG IN N CB 600MM BCR ● NE COR HERBERT AVENUE (TO THE N) & CITY TERRACE DR 22M E & 12M N/O C/L INT.
BENCHMARK No.– 10609 ELEV. = 432.682
RIVERA QUAD (2005)

Per Title 20.24.140 of LA County Code, obstructing access to sewer facilities is prohibited. No object difficult to remove shall be located over the sewer easement(s) as to interfere with ready access to sewer facilities.



AS BUILT
Accepted 11/18/10

INDEX MAP

BUILDING AND SAFETY DISTRICT OFFICE: EAST LOS ANGELES SCALE: 1" = 600' CSMD INDEX C-1859
NOTES: NUMBER IN CIRCLE INDICATES PAGE NUMBER. ALL MAINLINE SANITARY SEWERS ARE WITHIN THE SANITARY SEWER EASEMENT
P.C. 12088 TR. NO. TRACT NO. 6480
THOMAS GUIDE PAGE: 635 E-4

NO.	REVISION	REVISED BY	APPROVED BY	DATE

STORMWATER POLLUTION PLAN NOTES

A. NOTES:
1. Eroded sediments and other pollutants must be retained on site and may not be transported from the site via sheetflow, swales, area drains, natural drainage courses or wind.
2. Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
3. Fuels, oils, solvents, and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.
4. Excess or waste concrete may not be washed into the Public way or any other drainage system. Provisions shall be made to retain concrete wastes on site until they can be disposed of as solid waste.
5. Trash and construction related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.
6. Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the public way. Accidental depositions must be swept up immediately and may not be washed down by rain or other means.
7. Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water.
8. The following BMPs as outlined in, but not limited to, the "Best Management Practice Handbook, California Stormwater quality task force, Sacramento, California, 2003", or the latest revised edition, may apply during the construction of this project (Additional measures may be required if deemed appropriate by county inspectors):

EROSION CONTROL
EC-1 Scheduling
EC-2 Preservation of Existing Vegetation
EC-3 Hydraulic Mulch
EC-4 Hydroseeding
EC-5 Soil Binders
EC-6 Straw Mulch
EC-7 Geotextiles and Mats
EC-8 Wood Mulching
EC-9 Earth Dikes and Drainage Swales
EC-10 Velocity Dissipation Swales
EC-11 Slope Drains
EC-12 Streambank Stabilization
EC-13 Polyacrylamide

TEMPORARY SEDIMENT CONTROL
SE-1 Silt Fence
SE-2 Sediment Basin
SE-3 Sediment Trap
SE-4 Check Dams
SE-5 Fiber Rolls
SE-6 Gravel Bag Berm
SE-7 Street Sweeping and Vacuuming
SE-8 Sandbag Barrier
SE-9 Straw Bale Barrier
SE-10 Storm Drain Inlet Protection
SE-11 Chemical Treatment

WIND EROSION CONTROL
WE-1 Wind Erosion Control

NON-STORM WATER MANAGEMENT
NS-1 Water Conservation Practices
NS-2 Dewatering Operations
NS-3 Paving and Grinding Operations
NS-4 Temporary Stream Crossing
NS-5 Clear Water Diversion
NS-6 Illicit Connection/Discharge
NS-7 Potable Water/Irrigation
NS-8 Vehicle and Equipment Cleaning
NS-9 Vehicle and Equipment Fueling
NS-10 Vehicle and Equipment Maintenance
NS-11 Pile Driving Operations
NS-12 Concrete Curing
NS-13 Concrete Finishing
NS-14 Material Over Water
NS-15 Demolition Adjacent to Water
NS-16 Temporary Batch Plants

EQUIPMENT TRACKING CONTROL
TR-1 Stabilized Construction Entrance/Exit
TR-2 Stabilized Construction Roadway
TR-3 Entrance/Outlet Tire Wash

WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL
WM-1 Material Delivery and Storage
WM-2 Material Use
WM-3 Stockpile Management
WM-4 Spill Prevention and Control
WM-5 Solid Waste Management
WM-6 Hazardous Waste Management
WM-7 Contaminated Soil Management
WM-8 Concrete Waste Management
WM-9 Sanitary/Septic Waste Management
WM-10 Liquid Waste Management

AS-BUILT PLAN
DATED 3/30/16

B. STANDARD PLANS:
The following latest revised standard plans on file in the office of the following department shall apply in the construction of this project.

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
2000-0 Legend for sanitary sewer plans and profiles and district maps.
2002-1 Precast concrete shallow manhole.
2003-2 Reinforced precast concrete manhole.
2004-1 Rectangular shallow manhole.
2014-1 Rectangular manhole frame and cover.
2015-1 Standard manhole step.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC)
207-1 Precast reinforced concrete manhole base
208-1 Breaching into existing manholes
210-2 Manhole frame and cover looking type
220-2 Chimneye
2021-1 Bedding for sewer pipe.
2023-2 Cradling and encasement.
2024-1 WYE or TEE support.
2026-1 Erosion protection in steep slopes.
2027-1 Allowable trench widths.
8006-1 Minimum public safety requirements.
2100-1 Requirement's for sanitary sewers near water mains
221-1 Pipe anchors and backfill stabilizers
222-1 House connection sewer
223-1 House connection remodeling
225-1 Blanket protection for pipes

NOTES:
No connection for the disposal of industrial wastes shall be made to sewers shown on these drawings until a permit for industrial waste water discharge has been issued by the Sanitation Districts for said connections.

Before breaking into or constructing a Sanitation Districts' sewer and prior to final acceptance of the project, a Sanitation Districts' inspector shall be notified by telephone at (310) 638-1161 so that required inspection can be made.

Any damage to the sewer line shall be the responsibility of the contractor/owner. All grading and construction occurring over and the vicinity of the existing sewer shall be performed in the presence of a County Inspector. Where applicable, the sewers shall be protected per Std. Plan 2023-2 at all significant crossings.

ISSUE NO HOUSE LATERAL CONNECTION PERMITS UNTIL OUTLET SEWER PC 12088 IS/ARE ACCEPTED FOR PUBLIC USE BY THE COUNTY OF LOS ANGELES.

PRIVATE CONTRACT SEWER GENERAL NOTES

1. A sewer construction permit shall be obtained and a fee paid for construction inspection and record plans to the County of Los Angeles Department of Public Works, at the Permit Counter, 900 South Fremont Avenue, 8th Floor, Alhambra, at least 72 hours prior to starting work under this permit. Copies of all other required permits, such as Road Excavation, Caltrans, etc., must be filed with the permit application.
2. Prior to issuance of any permit, the contractor shall file a permit for excavations and trenches from the State of California Division of Industrial Safety, and a Certificate of Worker's Compensation Insurance with the Department of Public Works named as the Certificate Holder. The County of Los Angeles Department of Public Works shall be notified 30 days prior to cancellation of the insurance policy.
3. If work is done in a State Highway, a permit must be obtained from the State of California Division of Highways, 120 South Spring Street, Los Angeles, California.
4. When work is within a contract city, the contractor must contact the Director of Public Works of that city, to determine the location to pay the inspection fee.
5. The contractor shall contact the district office listed on the "Application for Construction Permit" to arrange for an acceptable construction start date.
6. Approval of this plan by the County of Los Angeles Department of Public Works does not constitute a representation as to accuracy of the location of or the existence or non-existence of any underground utility pipe or structure within the limits of this project. This note applies to all pages.
7. All work shall be in accordance with the latest approved edition of the "Standard Specifications for Public Works Construction", including supplements (if there is any), the latest "Additions and Amendments to the Standard Specifications for Public Works Construction" and the latest "Special Provisions for the Construction of Sanitary Sewer" and shall be prosecuted only in the presence of the County of Los Angeles Department of Public Works.
8. The contractor's attention is directed to Section 7–10.4.1 of the "Standard Specifications for Public Works Construction" in regard to safety orders and shall conform to the "Minimum Public Safety Requirement" as shown on Los Angeles Department of Public Works' standard plan 8008–1.
9. Elevations are in feet above U.S.C. & G.S. sea level datum of 1988.
10. No revisions shall be made in these plans without the approval of the County of Los Angeles Department of Public Works.
11. No representative of the County of Los Angeles Department of Public Works will survey or lay out any portion of the work.
12. Grades to which this improvement is to be constructed are shown on plans and profiles. Grade points for top of curbs, centerline of streets, or centerline of alleys, are shown by circles on profiles at all points between said designed points. The grade shall be established so as to conform to a straight line drawn between said design points.
13. The private engineer shall furnish the County of Los Angeles Department of Public Works with grade sheets and stationing for all house laterals and "Y" or "T" branches and shall provide stakes for them at their proper locations with stationing plainly marked. All house laterals shall be constructed in a straight alignment at right angles from the main line sewer except as shown on the plans. House laterals from chimneys shall not have an angle of less than 45 degrees with the M.L. sewer. Any change in alignment shall be requested in writing by the private engineer.
14. The private engineer shall furnish the house lateral depth at the property line below the top of curb elevation for each house lateral on the grade sheet.
15. An approved backwater valve is required when the pad is lower in elevation than the top of the next upstream manhole.
16. Contact Environmental Programs Division for industrial waste discharge permit ● (626) 458–3517

CONSTRUCTION NOTES

1. Provide survey stakes on the property line or property lines produced at right angles to the sewer line at the centerline of each manhole.
2. Vitrified clay pipe joints shall be type "O" or "D" per "Standard Specifications for Public Works Construction" Section 208–2.
3. If a powerpole is within three feet of the sewer, the sewer shall be encased per LACDPW standard plan 2023–2, Case II, two feet on each side from the point of interference.
4. All joints between cast iron pipe and vitrified clay shall be made with a rubber sleeve joint, type "D" (with bushing if necessary) per "Standard Specifications for Public Works Construction" Section 208–2.
5. House laterals to be constructed with inverts at the property line 6 feet below curb grade except as noted.
6. Wye or tee branches may be used for connections to the mainline sewers except as noted.
7. If during the course of construction, it is determined that there is less than four feet of cover over the top of a mainline or house lateral V.C.P. sewer which is not indicated on the plans, the pipes shall be encased per LACDPW standard plan 2023–2, Case II, unless otherwise approved by the County of Los Angeles Department of Public Works.
8. All structures shall be either brick sewer manholes per LACDPW standard plan S–3 (SPPWC 203–0), or precast concrete sewer manholes per LACDPW standard plan S–36 (SPPWC 200–2), or reinforced precast concrete manhole per LACDPW standard plan 2003–2, except as noted.
9. Resurface all trenches within paved areas to meet the Department of Public Works or California State Highway requirements in accordance with the permits.
10. Full compliance with Section 306–1.3 of the "Standard Specifications for Public Works Construction" will be required for backfill in street. Certification of backfill, compaction, and sand equivalents by a qualified civil engineer shall be provided by the permittee prior to the issuance of a certificate of partial acceptance.
11. All backfill and fills outside of the street right of way shall be compacted to 90% of the maximum density as determined by ASTM soil compaction test D 1557–78 method "D" unless otherwise specified. This shall be certified by a qualified civil engineer. This certification shall be submitted to the Construction Division of the Department of Public Works prior to the acceptance of the work by the county.
12. Manhole tops in unimproved rights of way to be six inches above finished grade.
13. Sewers to be tested for leakage per section 306–1.4 of the "Standard Specifications for Public Works Construction" and "Special Provisions for the Construction of Sanitary Sewer" if applicable.
14. Manhole tops in improved rights of way to be level with finished grade.
15. All wyes and/or house laterals are to be located at least 5' apart and when possible not closer than 5' to any manhole.
16. All pipe materials shall be vitrified clay pipe or ductile iron pipe or other approved materials by the County of Los Angeles Department of Public Works.

NOTICE TO CONTRACTOR:
MAINTAIN SEWER FLOW AT ALL TIMES DURING CONSTRUCTION.

SEWER VIDEO OF ALL SEGMENTS SHALL BE SUBMITTED PRIOR TO PARTIAL FIELD ACCEPTANCE (85%) AND COMPLETED FIELD ACCEPTANCE (98%). FINAL MAP AND AS–BUILT SEWER PLANS SHALL BE SUBMITTED PRIOR TO PARTIAL FIELD ACCEPTANCE

SEWER EASEMENTS SHALL BE RECORDED PER SEPARATE INSTRUMENT PRIOR TO THE COUNTY'S FIELD ACCEPTANCE OF SANITARY SEWERS. CONSTRUCTED PER PC 12088.

SEWER LATERALS SHOWN ON PLANS ARE FOR REFERENCE ONLY.

The developer shall be responsible for the continued maintenance of PC12088 sanitary sewer until the County formally accepts it for maintenance. All mainline, manholes and laterals shall be protected from damage and infiltration.

PROFILE, ALIGNMENT, AND GRADE OF **SANITARY SEWERS** TO BE CONSTRUCTED IN — PAGE 1

BONNIE BEACH PLACE PC NO. 12088
1 SHEETS: 2 PAGES
COUNTY OF LOS ANGELES CALIFORNIA
CSMD INDEX C-1859

AS BUILT

GAIL FARBER DIRECTOR OF PUBLIC WORKS
APPROVED BY LAND DEVELOPMENT DIVISION
BY _____ ASSISTANT DIVISION ENGINEER 7/16/09 DATE
SUBMITTED BY _____ SEWER AND WATER/LANDSCAPING SUBDIVISION PLAN CHECKING SECTION 7/16/2009 DATE

COUNTY SANITATION DISTRICT NO.2
OF LOS ANGELES COUNTY, CALIFORNIA
STEPHEN R. MAGUIN– CHIEF ENGINEER and GENERAL MANAGER
APPROVED BY _____ DATE: 7-17-2009

PS007188

PRIVATE ENGINEERS NOTICE TO CONTRACTORS:

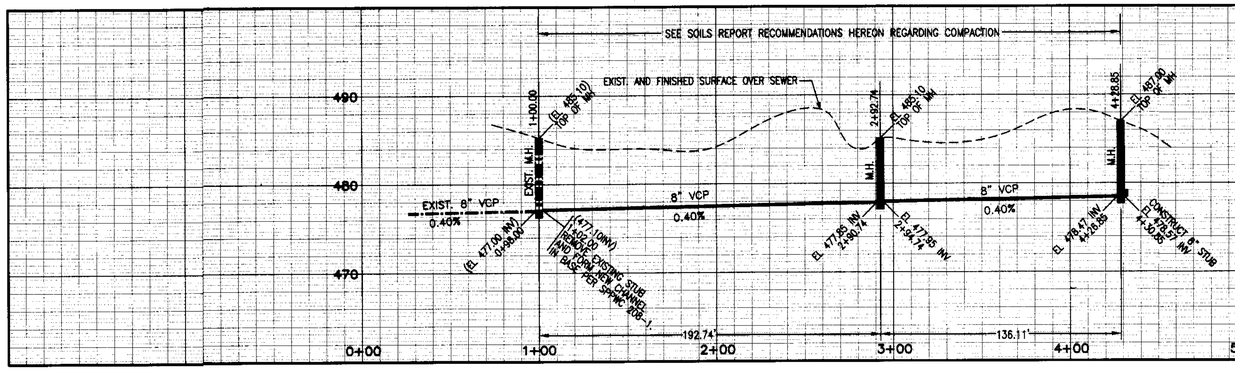
THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS IS REQUIRED BY A SEARCH OF AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE. THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING. PRIOR TO EXCAVATION THE CONTRACTOR SHALL CALL TOLL FREE 1–800–422–4133 TO VERIFY THE UNDERGROUND LOCATION OF GAS AND TELEPHONE LINES. THE CONTRACTOR SHALL ALSO CALL MR. RAY CUMMINGS OF GENERAL TELEPHONE COMPANY AT 1–805–948–4871 SO THAT THEY CAN MARK THE LOCATION OF UNDERGROUND TELEPHONE LINES.

PROJECT ENGINEER _____ RCE NO 29664 DATE 5-23-2009

P.C.12088 PAGE 2

NO. L.A. Co. DPW CHARGES FOR CONNECTIONS
SEE SANITATION DISTRICT FOR SPECIAL CONNECTION CHARGES
TEL. (562) 908–4288 EX. 2727

DOUBLE SCALE

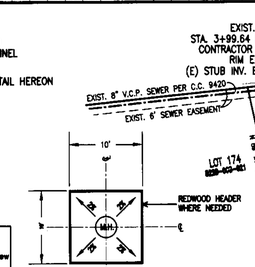


CONSTRUCTION NOTES

1. REMOVE EXISTING STUB AND BREAK INTO EXISTING MANHOLE AND FORM NEW CHANNEL IN BASE PER SPPWC 208–1.
2. CONSTRUCT A.C. PAVEMENT PAD PER DETAIL HEREON
3. CONSTRUCT 4" HOUSE LATERAL

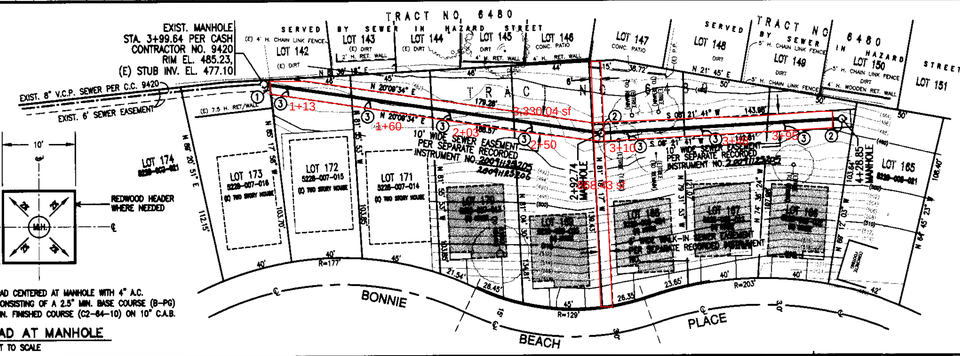
EXISTING SEWER SYSTEM SHALL BE OPERATIONAL AT ALL TIMES DURING RECONSTRUCTION. NOTIFY AFFECTED HOMEOWNERS AT LEAST 72 HRS IN ADVANCE.

RECONSTRUCTION NOTES:
1. Remove existing sewer pipes and install new sewer as noted above.
2. Break into existing manhole and form new channel in base per SPPWC 208–1.
3. Maintain sewer flow at all times during construction.
4. Remodel and reconnect all existing house laterals per LA County standards.



10' x 10' PAD CENTERED AT MANHOLE WITH 4" A.C. PAVEMENT CONSISTING OF A 2.5" MIN. BASE COURSE (B–PG) AND 1.5" MIN. FINISHED COURSE (C2–64–10) ON 10" C.A.B.

PAD AT MANHOLE
NOT TO SCALE



SOILS REPORT RECOMMENDATIONS

It is recommended that the proposed sewer line pipes be founded either on undisturbed bedrock or properly compacted soil.
To avoid the surcharge on the sewer line pipes, all footings of the proposed houses should be located below a line measured upward at a 45–degree angle from the bottom sewer pipe trench, unless reviewed and approved by the Soils Engineer.

a. Sewer Line Trench Excavation
Excavation should be in accordance with all applicable requirements of the State of California Construction and General Industry Safety Order, the Occupational Safety and Health Act of 1970, the Construction Safety Act, and all other public agencies have jurisdiction. Construction specifications should clearly establish the responsibilities of the contractor for construction safety in accordance with CAL/OSHA requirements.
Temporary excavation for construction purposes may be made vertically in onsite bedrock to a maximum height of 4 feet without shoring or bracing, provided no surcharge loads or adjacent structures are located within a horizontal distance equal to the depth of excavation. For cuts made to a depth greater than the 4 feet, the portion above 4 feet shall be sloped back to an inclination of 1 horizontal to 1 vertical. All cuts made in the onsite fill and colluvial soil should be trimmed to an inclination of 1 horizontal to 1 vertical.
Excavated surfaces should be kept moist but not saturated to retard ravelling and sloughing during construction. Water should not be allowed to pond on the top of the excavation nor flow towards it.
Careful examination of the soils by the Soils Engineer during cutting of the banks is mandatory to verify the conditions or to make such recommendations as are pertinent if different conditions are encountered.
No excavation shall be made during unfavorable weather. It is recommended that the excavated banks be entirely covered with plastic sheets when threatened by rains. When the excavation is interrupted by rain, operations shall not be resumed until the Soils Engineer indicates that conditions still permit satisfactory results.
It should be understood that the contractor shall supervise and direct the work and he shall be responsible for all construction means, methods, techniques, sequences and procedures. The contractor will be solely and completely responsible for conditions at the job site, including safety of all persons and property during the performance of the work. Periodic or continuous inspection by GSI Engineering, Inc. is not intended to include verification of dimensions or review of the adequacy of the contractor's safety measures in, on or near the construction site.

b. Sewer Line Trench Backfill Placement
All backfill shall be brought to near optimum moisture, placed in layers not exceeding 8 inches thick, and compacted to the minimum required standards.
Compaction characteristics of all fill soils shall be determined by ASTM D–1557–02 standard. The field density and degree of compaction shall be determined by ASTM D1556, or by other ASTM standard methods that are acceptable to the governing public agency.

REGISTERED PROFESSIONAL ENGINEER CHENLUN LEE No. 2781 EXP. 06-30-11 GEOTECHNICAL STATE OF CALIFORNIA

PLAN
SCALE: 1" = 40'
25 0 50 100

REGISTERED PROFESSIONAL ENGINEER PABLO B. SANCHEZ NO. 29664 EXP. 3-31-11 CIVIL STATE OF CALIFORNIA

PROJECT ENGINEER _____ DATE 4-18-09

NO.	REVISION	REVISED BY	APPROVED BY	DATE

SANITARY SEWER PLANS IN BONNIE BEACH PLACE PC NO. 12088

REVIEWED BY LAND DEVELOPMENT DIVISION
BY _____ SEWER AND WATER / LANDSCAPING SUBDIVISION PLAN CHECKING SECTION 7/15/09 DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

CS
7340 FLORENCE AVENUE #222 DOWNEY, CA 90240

DWG

DPW.LACOUNTY.GOV ts–ss–dl.dgn 5/2009

P:\PROJECT\PC 0884 ON TRACT\PC 0884 J OB