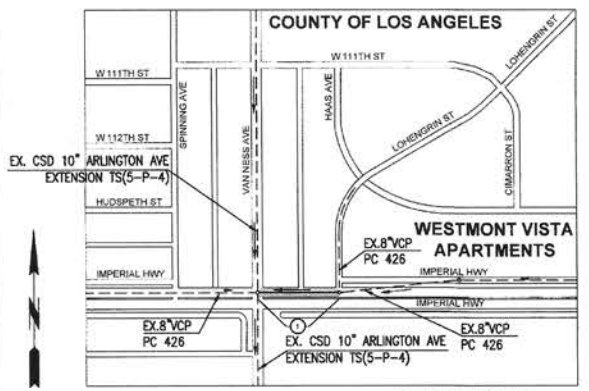


JOB# 1703 Dig Alert # A200160176

**BENCH MARKS**  
 BM 18-12329 Elev. 120.928 FT (NAVD 88)  
 CITY OF LA SURV PBM \*STMPD 18-12329 1969\*  
 37. FT S OF S CURB LINE IMPERIAL HWY S RDWY.  
 19 FT E OF BC CURB RETURN OF VAN NESS AVE.  
 SE COR CB

- NOTES**
- Every effort should be made to eliminate the discharge of non-stormwater from the project site at the time via sheet flow, swales, area drains, natural drainage courses or ditches.
  - Eroded sediments and other pollutants must be retained on-site and may not be transported from the site via sheet flow, swales, area drains, natural drainage courses or ditches.
  - Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
  - Fuels, oils, solvents, and other liquid materials must be stored in accordance with their labeling 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.
  - Excess or waste concrete may not be washed into the public way or any other drainage systems. Provisions shall be made to retain concrete washwater until they can be disposed of as solid waste.
  - Trash and construction related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and disposal by wind.
  - Sediment 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 deposits must be swept up immediately by wind and water.
  - Any slopes with disturbed soils or demands of vegetation must be stabilized so as to inhibit erosion by wind and water.
  - The following BMPs, as outlined in, but not limited to, the latest edition of the California BMP Handbook (Construction) or California Stormwater Quality Handbook (Construction Site BMP Manual), may apply during the construction of this project. (additional measures may be required if deemed appropriate by the Project Engineer or the Building Official)



**INDEX MAP**  
 BUILDING AND SAFETY DISTRICT OFFICE: SOUTHWEST  
 SCALE: 1" = 300' CSMD INDEX: S-1645  
 NOTES: NUMBER IN CIRCLE INDICATES PAGE NUMBER. P.C. 12341 TR. NO. 13795 THOMAS GUIDE PAGE: 703-08

| NO. | REVISION | REVISED BY | APPROVED BY | DATE |
|-----|----------|------------|-------------|------|
|     |          |            |             |      |

**WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL**

|   |   |   |  |   |                                      |   |                                  |   |   |   |
|---|---|---|--|---|--------------------------------------|---|----------------------------------|---|---|---|
| WM1 MATERIAL DELIVERY AND STORAGE       | WM2 MATERIAL USE                                      | WM3 WASTE MANAGEMENT                      | WM4 SPILL PREVENTION AND CONTROL           | WM5 SOLID WASTE MANAGEMENT                    | WM6 HAZARDOUS WASTE MANAGEMENT       | WM7 CONTAMINATION CONTROL                 | WM8 CONCRETE WASTE MANAGEMENT    | WM9 SANITARY/SEPTIC WASTE MANAGEMENT          | WM10 LIQUID WASTE MANAGEMENT            | WM11 TEMPORARY SEDIMENT CONTROL           |
| WM12 SOIL EROSION CONTROL               | WM13 WIND EROSION CONTROL                             | WM14 EQUIPMENT TRACKING CONTROL           | WM15 STABILIZED CONSTRUCTION ENTRANCE EXIT | WM16 STABILIZED CONSTRUCTION ROADWAY          | WM17 ENTRANCE/OUTLET FIRE WASH       | WM18 BEDDING FOR SEWER PIPE               | WM19 CRADLING AND ENCLOSURE      | WM20 WYE OR TEE SUPPORT                       | WM21 EROSION PROTECTION IN SLOPE SLOPES | WM22 ALLOWABLE TRENCH WIDTHS              |
| WM23 MINIMUM PUBLIC SAFETY REQUIREMENTS | WM24 REQUIREMENTS FOR SANITARY SEWERS NEW WATER MAINS | WM25 PRECAST CONCRETE SEWER MANHOLE       | WM26 TERMINAL CLEANOUT STRUCTURE           | WM27 PRECAST REINFORCED CONCRETE MANHOLE BASE | WM28 BREAKING INTO EXISTING MANHOLES | WM29 MANHOLE FRAME AND COVER LIFTING TYPE | WM30 CHIMNEYS                    | WM31 PIPE ANCHORS AND BACKBIT STABILIZERS     | WM32 HOUSE CONNECTION SEWER             | WM33 HOUSE CONNECTION REMODELING          |
| WM34 BASKET PROTECTION FOR PIPES        | WM35 CHIMNEYS   | WM36 PIPE ANCHORS AND BACKBIT STABILIZERS | WM37 HOUSE CONNECTION SEWER                | WM38 HOUSE CONNECTION REMODELING              | WM39 BASKET PROTECTION FOR PIPES     | WM40 PRECAST CONCRETE SEWER MANHOLE       | WM41 TERMINAL CLEANOUT STRUCTURE | WM42 PRECAST REINFORCED CONCRETE MANHOLE BASE | WM43 BREAKING INTO EXISTING MANHOLES    | WM44 MANHOLE FRAME AND COVER LIFTING TYPE |

**COUNTY SANITATION DISTRICT (CSD) 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 County Sanitation Districts for said connections.
- See CSD manhole detail on these drawings.
- All work involving CSD sewers or manholes shall be in accordance with the latest edition of the Standard Specifications for Public Works Construction, and CSD latest Amendments to the standard specifications for Public Works Construction and standard drawing for construction. A copy of the amendments and standard drawings may be obtained from the CSD Engineering counter (Room 110) at 1555 Workman MB Rd., Whittier, CA 90601 or from the CSD website "WWW.LACSD.ORG".
- CSD is not responsible for any personal injury or property damage relating to the work on these sewer plans. The contractor shall repair any damage to CSD facilities at its expense.

**PRIVATE CONTRACT SEWER GENERAL NOTES**

- The following general notes are to be included on page 1 of all Private Contract Sewer Plans:
- A sewer construction permit shall be obtained and a fee paid for construction inspection and starting work to the County of Los Angeles Department of Public Works at the Permit Counter, 900 South Front Street, 3rd Floor, Alhambra, at least 72 hours prior to starting work under this permit. Copies of all other required permits, such as road excavations, etc., must be filed with the permit application.
- When work is within a contract city sewer construction permit shall be obtained and the paid for construction inspection and record plans to the City. The contractor must contact the Director of Public Works of that City to determine the location to pay the inspection fees.
- 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 Workers' Compensation Insurance with the Department of Public Works of the City or County of Los Angeles, as applicable. The County of Los Angeles Department of Public Works and the City of \_\_\_\_\_ shall be notified 30 days prior to cancellation of the insurance policy.
- 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.
- The contractor shall contact the district office listed on the "Application for Construction Permit" to arrange for an acceptable construction start date.
- Approval of this plan by the County of Los Angeles Department of Public Works or the City of \_\_\_\_\_ does not constitute a representation as to accuracy of the location of or the existence or nonexistence of any underground utility pipe or structure within the limits of this project. This note applies to all pages.
- 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), as published by the County of Los Angeles Department of Public Works, and shall be proceeded only in the presence of the County of Los Angeles Department of Public Works or the City of \_\_\_\_\_.
- The contractor's attention is directed to Section 7.10.4.2 of the "Standard Specifications for Public Works Construction" in regard to safety orders and shall conform to the "Minimum Public Safety Requirements" as shown on County of Los Angeles Department of Public Works Standard Plan No. 9508-1.
- Elevations are in feet above U.S.C. and G.S. sea level datum of 1988.
- No revisions shall be made in these plans without the approval of the County of Los Angeles Department of Public Works or the City of \_\_\_\_\_.
- No representative of the County of Los Angeles Department of Public Works or the City of \_\_\_\_\_ will survey or layout any portion of the work.
- Grades to which this improvement is to be constructed are shown on plans and profiles. Grade point for top of curb, centerline of street, or centerline of alley, is shown by circles or profiles at all points between said designated points. The grade shall be established so as to conform to a straight line drawn between said design points.
- The private engineer shall furnish the County of Los Angeles Department of Public Works or the City of \_\_\_\_\_ with grade sheets and stationing for all house laterals and all "1" and "2" manholes and shall provide stakes for them at their proper locations with stationing clearly 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 main line sewer. A permit shall be obtained from the City or County of Los Angeles for any change in alignment shall be requested by the private engineer.
- 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.
- An approved backwater valve is required when the pad is lower in elevation than the top of the next upstream manhole.
- Contact Environmental Programs Division for an Industrial Waste Discharge Permit at (213) 456-3517.
- 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 Workers' Compensation Insurance with the Department of Public Works or the City of \_\_\_\_\_, as applicable. The County of Los Angeles Department of Public Works and the City of \_\_\_\_\_ shall be notified 30 days prior to cancellation of the insurance policy.

**CONSTRUCTION NOTES**

- Provide survey stakes on the property line or property lines produced at right angles to the sewer line at the centerline of each manhole.
- Verified city pipe joints shall be type "D" or "G" per "Standard Specifications for Public Works Construction" section 206-2.
- If a power pole is within three feet of the sewer, the sewer shall be encased per LACDPW Standard Plan 2023-2, Case 5, two feet on each side from the point of interference.
- All joints between cast-iron pipe and verified city pipe shall be made with a rubber sleeve joint, type "D" with bushing if necessary, per "Standard Specifications for Public Works Construction" section 206-2.
- House laterals to be constructed with inverts at the property line 6 feet below curb grade except as noted.
- If any of the branches may be used for connections to the main sewer except as noted.
- When the course of construction 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 pipe shall be encased per LACDPW Standard Plan 2023-2, Case 1, unless otherwise approved by the County of Los Angeles Department of Public Works or the City of \_\_\_\_\_.
- All structures shall be other than sewer manholes per LACDPW Standard Plan S-3 (SPWC 203-2), or precast concrete sewer manholes per LACDPW Standard Plan S-36 (SPWC 203-3), or reinforced precast manhole per LACDPW Standard Plan 2023-2, except as noted.
- Resurface all trenches within paved areas to meet Department of Public Works or California State Highway requirements in accordance with the permits.
- Full compliance with Section 206-1.3 of the "Standard Specifications for Public Works Construction" will be required for backfill in street. Certification of backfill, and satisfactory test results by a qualified engineer shall be provided by the contractor prior to the issuance of Partial Acceptance.
- All backfill and fill outside of the street right of way shall be compacted to 90 percent of the maximum dry 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 Land Development Division, Permit Section of the County of Los Angeles Department of Public Works or the City of \_\_\_\_\_ prior to the acceptance of the work by the County or the City of \_\_\_\_\_.
- Manhole tops in unimproved rights of way to be six inches above finished grade.
- Shown to be tested for leakage per Section 305-1.4 of the "Standard Specifications for Public Works Construction" and "Special Provisions for the Construction of Sanitary Sewers" if applicable.
- Manhole tops in improved rights of way to be level with finished grade.
- All eyes and/or house laterals are to be located at least 5 feet apart, and when possible, not closer than 5 feet to any manhole.
- All pipe materials shall be extra strength vitrified clay pipe or ductile iron pipe or other approved materials by the County of Los Angeles Department of Public Works or the City of \_\_\_\_\_.
- All ductile iron pipe shall be lined with Protecto 403 Ceramic Epoxy Lining.
- Cured in place pipe shall be used for all extra vitrified clay pipe if lining is required.
- All manholes shall have terminal cleanout structure per SPWC 426, plan 204-2 with 1/2" thru 1/4" rated frame and cover.

**NOTICE TO CONTRACTOR:**  
 Prior to abandoning the existing sewer lines, new sewer lines must be constructed to redirect the sewer flow from the existing sewer lines.

The developer shall be responsible for the continued maintenance of PC6648 sanitary sewer until the County formally accepts it for maintenance. All manholes, manholes and laterals shall be protected from damage and infiltration.

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

**SEWER VIDEO OF ALL SEGMENTS SHALL BE SUBMITTED PRIOR TO PARTIAL FIELD ACCEPTANCE (95%) AND COMPLETED FIELD ACCEPTANCE (95%). FINAL MAP AND AS-BUILT SEWER PLANS SHALL BE SUBMITTED PRIOR TO PARTIAL FIELD ACCEPTANCE.**

**SEWER LATERALS SHOWN ON PLANS ARE FOR REFERENCE ONLY.**

All sanitary cover manhole shafts and frames shall be watertight with Butyl Rubber Master joint sealing compound or approved equal by the LA County Public Works.

**PROFESSIONAL ENGINEER**  
 ARMANDO D. DUFRÉ, PLS 7780  
 Engineer/Surveyor  
 Exp. 12-31-19

**NO MONUMENTS IMPACTED**

Date: 11/09/18

**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 1-800-424-4133 TO VERIFY THE UNDERGROUND LOCATION OF GAS AND TELEPHONE LINES. THE CONTRACTOR SHALL ALSO CALL MR. RAY CUMMINGS OF GENERAL TELEPHONE COMPANY AT (310) 946-8471 SO THAT THEY CAN MARK THE LOCATION OF UNDERGROUND TELEPHONE LINES.

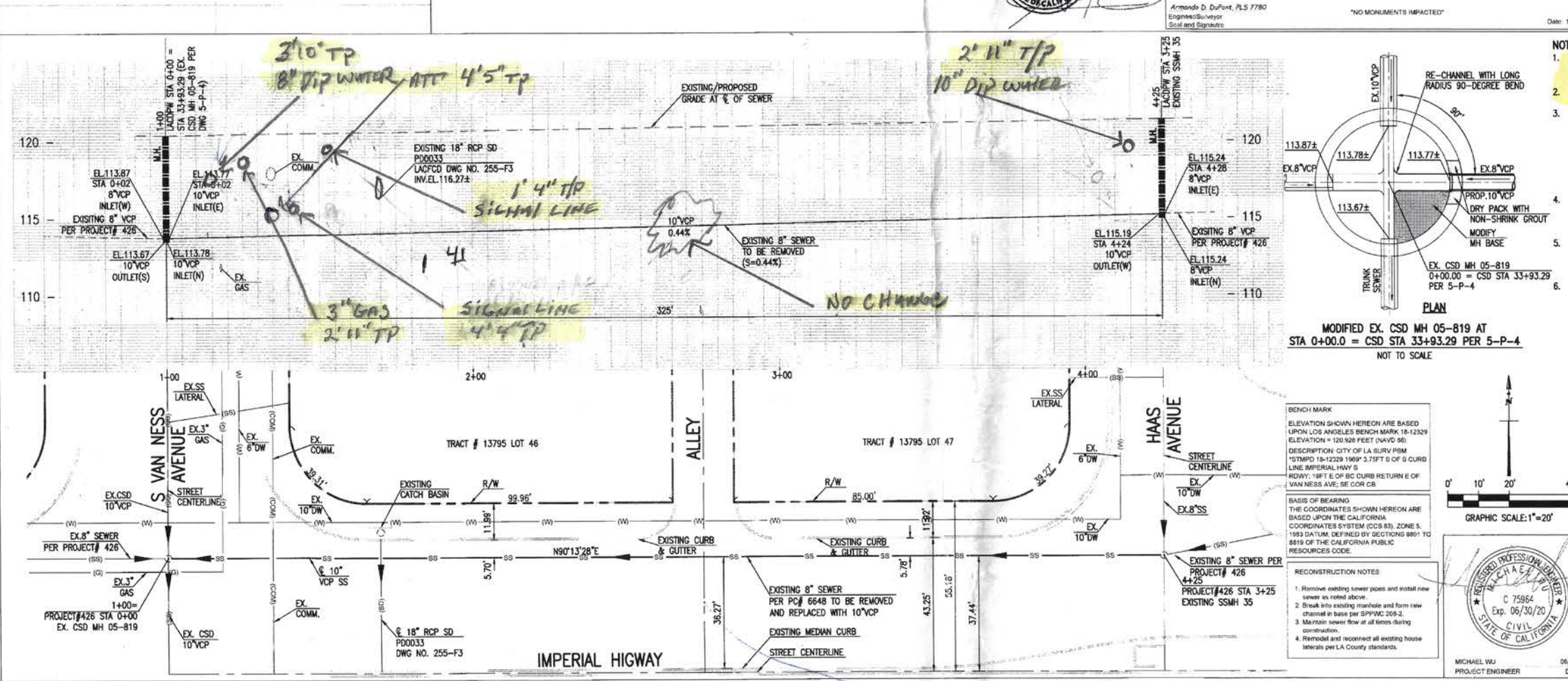
PROJECT ENGINEER: [Signature] 75964 RCE NO. 11/09/18 DATE

PROFILE, ALIGNMENT AND GRADE OF  
**SANITARY SEWERS**  
 TO BE CONSTRUCTED IN  
 ADDRESS OR TR/PM/CUP NO. 1763 W. IMPERIAL HWY  
 ADDRESS FOR SINGLE LOT, PC NO. 12341  
 1 SHEET: 1 PAGE  
 COUNTY OF LOS ANGELES CALIFORNIA  
 CSMD INDEX S-1645

MARK PESTRELLA, LA COUNTY DIRECTOR OF PUBLIC WORKS  
 APPROVED BY LAND DEVELOPMENT DIVISION FOR CITY PROJ. REPLACE "APPROVED" TO "RECOMMENDED"

DATE: 1/23/19  
 DATE: 1/23/19

APPROVED BY: [Signature] DATE: 1/24/19  
 OFFICE ENGINEER



**NOTES:**

- NOTIFY THE COUNTY SANITATION DISTRICTS (CSD) FIELD ENGINEERING MANAGER AT (310)830-8050 AT LEAST 5 WORKING DAYS PRIOR TO START OF WORK ON THE CSD MANHOLE TO ARRANGE FOR INSPECTION.
- VERIFY EXISTING SEWER INVERTS AND SURFACE ELEVATION PRIOR TO CONSTRUCTION.
- WHEN ALLOWED BY THE CSD INSPECTOR, REMOVE THE EXISTING BRICK MANHOLE SHAFT, INSTALL THE PROPOSED SEWER PIPE, INSERT A FLEXIBLE FLOW-THRU PLUG IN THE MANHOLE TO CONTAIN THE FLOW, COMPLETE CHANNELIZATION OF THE MANHOLE BASE IN THE DRY, AND INSTALL CONCRETE SHAFT PER S-A-204. AS OF JANUARY 2017, THE PEAK FLOW IN THE 10-INCH TRUNK SEWER WAS 0.6 CFS. THIS WORK MAY HAVE TO BE PERFORMED DURING OVERNIGHT HOURS WHEN FLOWS ARE LOWER.
- THE CONTRACTOR SHALL PROTECT EXISTING SHAFTING IN PLACE. IF DAMAGED, THE CONTRACTOR SHALL REPLACE EXISTING BRICK MANHOLE SHAFT WITH CONCRETE SHAFT PER CSD STANDARD DRAWING S-A-204. BACKFILL AROUND MANHOLE USING 1.5-SACK CEMENT SLURRY. PERFORM VIDEO INSPECTION OF THE COMPLETED CONNECTION INSIDE THE MANHOLE AND PROVIDE VIDEO TO CSD INSPECTOR TO CONFIRM SATISFACTORY COMPLETION OF THE WORK.
- SEND MANHOLE, SHORING, FLOW-THROUGH PLUG, 1.5 SACK SLURRY, AND HOPE FLANGE ANCHOR SUBMITTALS TO THE CSD SEWER DESIGN SECTION FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. ALLOW 3 WEEKS FOR REVIEW OF EACH SUBMITTAL.

**NO CITY CHARGES/NO LA COUNTY CHARGES FOR CONNECTION**  
 FOR CONNECTION SEE COUNTY SANITATION DISTRICT/LVMMW FOR SPECIAL CONNECTION CHARGES  
 TEL: (562) 908-4280 EX. 2727  
 SCALE: VERT. 1" = 4' HORIZ. 1" = 20'

**AS-BUILT PLAN DATED 10-13-2020**

NO. \_\_\_\_\_ REVISION \_\_\_\_\_ REVISED BY \_\_\_\_\_ APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

**SANITARY SEWER PLANS IN**  
 ADDRESS: 1763 W IMPERIAL HWY PC NO. 12341

REVIEWED BY LAND DEVELOPMENT DIVISION  
 BY: [Signature] DATE: 01/23/2019

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS  
 \*FOR PLAN CHECK REVIEW FOR THE CITY OF \_\_\_\_\_

**BREEN Engineering Inc.**  
 1983 WEST 190TH STREET, SUITE 200  
 TORRANCE, CA 90504  
 TEL: (310) 464-8404  
 FAX: (310) 464-8408  
 WWW.BREENENG.COM

1983 WEST 190TH STREET, SUITE 200 TORRANCE, CA 90504 TEL: (310) 464-8404 FAX: (310) 464-8408 WWW.BREENENG.COM

DATE: 06/25/20 DWG