

PROFILE, ALIGNMENT, AND GRADE OF
SANITARY SEWERS
 TO BE CONSTRUCTED IN
 TRACT NO. 60922-01, PC NO. 12109A
 3 SHEETS: 6 PAGES
 COUNTY OF LOS ANGELES CALIFORNIA
 CSMD INDEX N415, N416

SHEET 1 OF 6

MARK PESTRELLA
 APPROVED BY LAND DEVELOPMENT DIVISION
 BY *[Signature]* DATE 3/1/2018
 ASSISTANT DIVISION ENGINEER

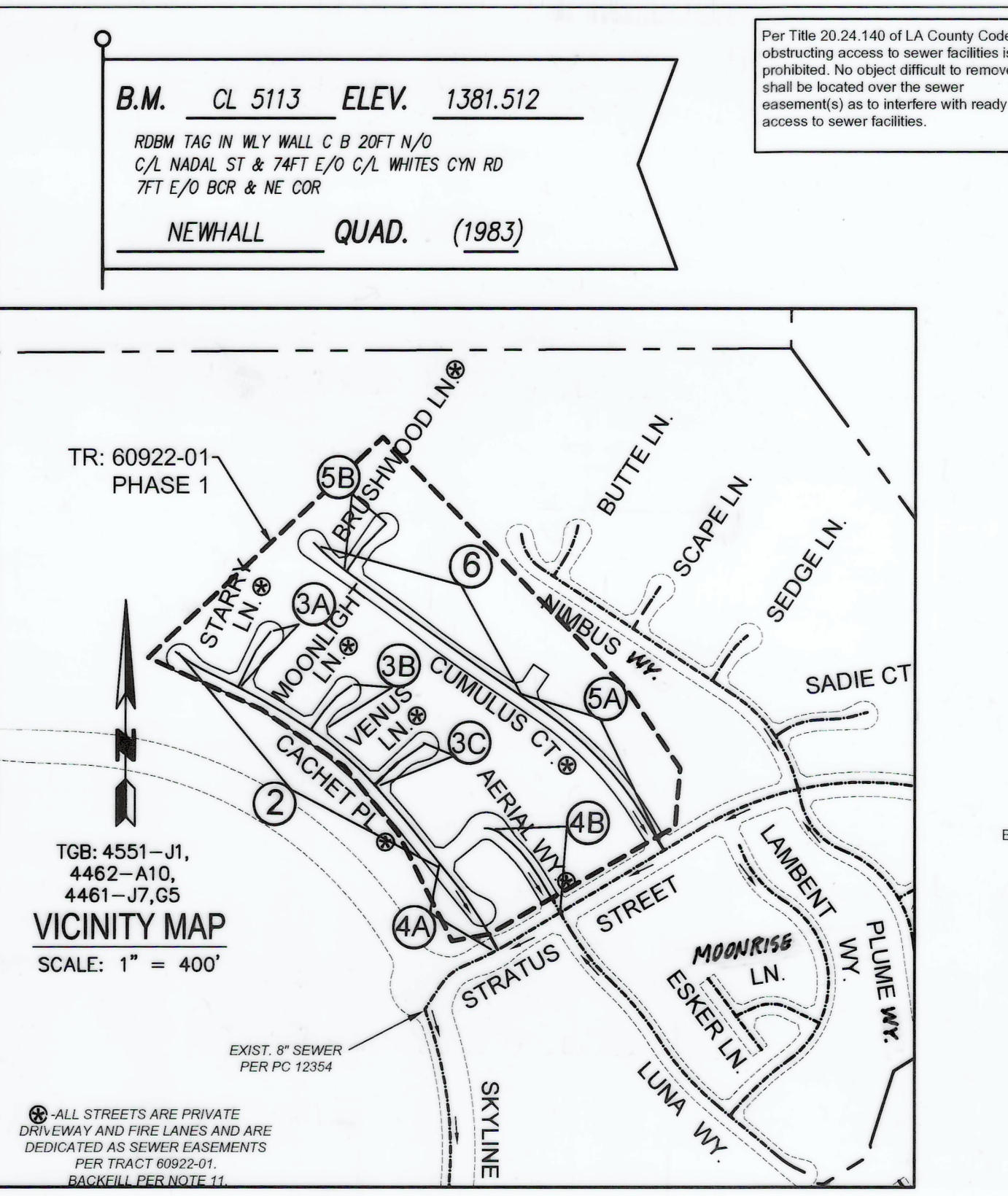
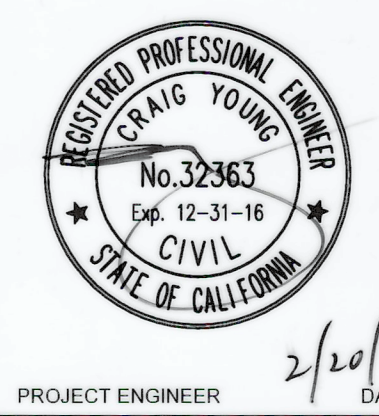
SANTA CLARITA VALLEY SANITATION DISTRICT
 OF LOS ANGELES COUNTY, CALIFORNIA
 GRACE ROBINSON HYDE - CHIEF ENGINEER AND GENERAL MANAGER
 APPROVED BY *[Signature]* DATE 3/10/2018
 ENGINEERING COUNCIL

CITY OF SANTA CLARITA
 ACCEPTANCE OF DISCHARGE
 3/8/18
 ROBERT G. NEWMAN
 DIRECTOR OF PUBLIC WORKS

Engineer's/Surveyor's Statement Regarding the Presence of Monuments within project limits
 I hereby attest that I have located and referenced on these plans the monuments existing prior to construction to ensure perpetuation of their location in accordance with section 8771 of the business and professions code. I further attest that I have performed a recent search and field inspection to identify existing monuments, shall set sufficient control, witness, and permanent monuments, and shall file the requisite record or record of survey of the references with the County surveyor.
 Engineer/Surveyor: *[Signature]* Date 2-20-2018

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: *[Signature]* 3/23/18 DATE 2/20/18

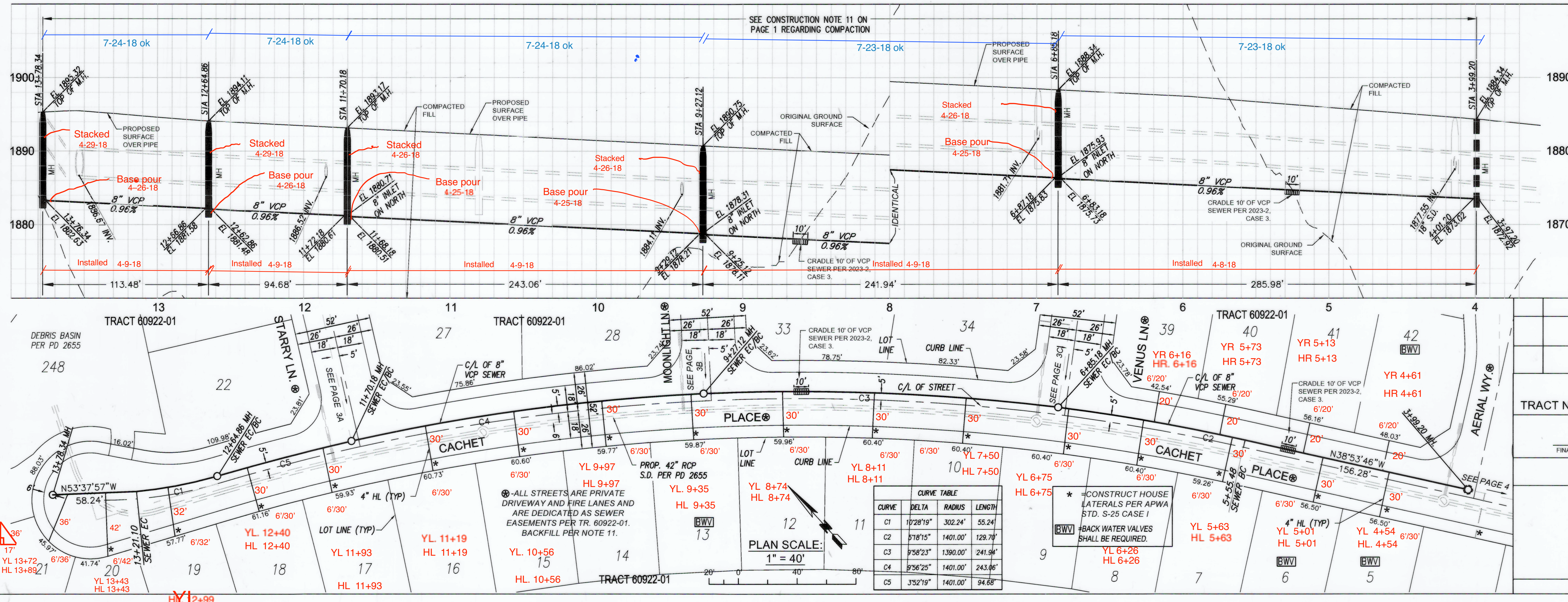
NO LA COUNTY CHARGES FOR CONNECTION
 SEE COUNTY SANITATION DISTRICTS FOR SPECIAL CONNECTION CHARGES
 TEL: (662) 908-4288 EX. 2727
 SCALE: VERT. 1" = 8'
 HORIZ. 1" = 40'
 DOUBLE SCALE



- STORMWATER POLLUTION PLAN NOTES**
- A. NOTES:**
- Every effort should be made to eliminate the discharge of non-stormwater from the project site at all times.
 - 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 wind.
 - 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 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.
 - Excavations or waste concrete may not be spilled into the public way or any other drainage system. Provisions shall be made to retain concrete waste on-site 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 dispersal by wind.
 - 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.
 - Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water.
- 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
 Legend for sanitary sewer plans and profiles and district maps.
- | | | | |
|--------|--------------------------------------|--------|--|
| 2000-0 | Precast concrete shallow manhole. | 2021-1 | Bedding for sewer pipe. |
| 2000-1 | Reinforced precast concrete manhole. | 2023-1 | Cradling and encasement. |
| 2003-2 | Rectangular shallow manhole. | 2024-1 | WYE or TEE support. |
| 2004-1 | Rectangular manhole frame and cover. | 2026-1 | Erosion protection in steep slopes. |
| 2014-1 | Standard manhole step. | 2027-1 | Allowable trench widths. |
| 2015-1 | Standard manhole step. | 6008-1 | Minimum public safety requirements. |
| | | 2100-1 | Requirements for sanitary sewers near water mains. |
- STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC)**
- | | | | |
|-------|--|-------|---------------------------------------|
| 200-3 | Precast Concrete Sewer Manhole | 220-3 | Chimneys |
| 204-2 | Terminal cleanout structure | 221-2 | Pipe anchors and backfill stabilizers |
| 207-2 | Precast reinforced concrete manhole base | 222-2 | House connection sewer |
| 208-2 | Breaking into existing manholes | 223-2 | House connection remodeling |
| 210-3 | Manhole frame and cover locking type | 225-2 | Blanket protection for pipes |
- EROSION CONTROL**
 EC1 SCHEDULING
 EC2 PRESERVATION OF EXISTING VEGETATION
 EC3 HYDRAULIC MULCH
 EC4 HYDROSEEDING
 EC5 SOIL BINDERS
 EC6 STRAW MULCH
 EC7 GEOTEXTILES & MATS
 EC8 WOOD MULCHING
 EC9 EARTH DIKES AND DRAINAGE SWALES
 EC10 VELOCITY DISSIPATION DEVICES
 EC11 SLOPE DRAINS
 EC12 STREAMBANK STABILIZATION
 EC13 RESERVED
 EC14 COMPOST BLANKETS
 EC15 SOIL PREPARATION/TOUCHUPING
 EC16 NON-VEGETATED STABILIZATION
- NON-STORM WATER MANAGEMENT**
 NS1 WATER CONSERVATION PRACTICES
 NS2 DETERIORATING OPERATIONS
 NS3 PAVING AND GRINDING OPERATIONS
 NS4 TEMPORARY STREAM CROSSING
 NS5 CLEAR WATER DIVERSION
 NS6 ILLICIT CONNECTION/DISCHARGE
 NS7 POTABLE WATER IRRIGATION
 NS8 VEHICLE AND EQUIPMENT CLEANING
 NS9 VEHICLE AND EQUIPMENT FUELING
 NS10 VEHICLE AND EQUIPMENT MAINTENANCE
 NS11 PILE DRIVING OPERATIONS
 NS12 CONCRETE CURING
 NS13 CONCRETE FINISHING
 NS14 MATERIAL AND EQUIPMENT USE
 NS15 DEMOLITION ADJACENT TO WATER
 NS16 TEMPORARY BATCH PLANTS
- WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL**
 WM1 MATERIAL DELIVERY AND STORAGE
 WM2 MATERIAL USE
 WM3 STOCKPILE MANAGEMENT
 WM4 SPILL PREVENTION AND CONTROL
 WM5 SOLID WASTE MANAGEMENT
 WM6 HAZARDOUS WASTE MANAGEMENT
 WM7 CONTAMINATION SOIL MANAGEMENT
 WM8 CONCRETE WASTE MANAGEMENT
 WM9 SANITARY/SEPTIC WASTE MANAGEMENT
 WM10 LIQUID WASTE MANAGEMENT
- TEMPORARY SEDIMENT CONTROL**
 SE1 SILT FENCE
 SE2 SEDIMENT BASIN
 SE3 SEDIMENT TRAP
 SE4 CHECK DAM
 SE5 FIBER ROLLS
 SE6 GRAVEL BAG BERM
 SE7 STREET SWEEPING AND VACUUMING
 SE8 SANDBAG BARRIER
 SE9 STRAW BALE BARRIER
 SE10 STORM DRAIN INLET PROTECTION
 SE11 ACTIVE TREATMENT SYSTEMS
 SE12 TEMPORARY SILT LINES
 SE13 COMPOST SOCKS & BERMS
 SE14 BIOFILTER BAGS
- WIND EROSION CONTROL**
 WE1 WIND EROSION CONTROL
- EQUIPMENT TRACKING CONTROL**
 TC1 STABILIZED CONSTRUCTION ENTRANCE EXIT
 TC2 STABILIZED CONSTRUCTION ROADWAY
 TC3 TEMPORARY SILT LINES
 TC4 ENTRANCE/EXIT TIRE WASH

- 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 record plans to the County of Los Angeles Department of Public Works, at the Permit Counter, 800 South Vermont Avenue, 3rd 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.
 - When work is within a contract city, a sewer construction permit shall be obtained and a fee 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 Worker's Compensation Insurance with the Department of Public Works named as the Certificate Holder or both as applicable. The County of Los Angeles Department of Public Works 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 does not constitute a representation as to accuracy of the location of 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) the latest "Additions and Amendments to the Standard Specifications for Public Works Construction", and shall be prosecuted only in the presence of the County of Los Angeles Department of Public Works.
 - 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 Requirement" as shown on County of Los Angeles Department of Public Works Standard Plan No. 6008-1.
 - 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.
 - No representative of the County of Los Angeles Department of Public Works 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 streets, or centerline of alleys, is 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.
 - 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" and "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.
 - 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 (626) 468-2517.
- 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 clay pipe joints shall be type "D" or "G" per "Standard Specifications for Public Works Construction" Section 208-2.
 - If a power pole 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.
 - All joints between cast-in-place pipe and vitrified clay pipe shall be made with a rubber sleeve joint, type "D" (with bushing if necessary), per "Standard Specifications for Public Works Construction" Section 208-2.
 - House laterals to be constructed with inverts at the property line 6 feet below curb grade except as noted.
 - Wye or tee branches may be used for connections to the mainline sewers except as noted.
 - If the grade of construction is 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.
 - All structures shall be either brick sewer manholes per LACDPW Standard Plan S-3 (SPPWC 203-2), or precast concrete sewer manholes per LACDPW Standard Plan S-36 (SPPWC 203-5), or reinforced precast manhole per LACDPW Standard Plan 2023-2, except as noted.
 - Resurface all trenches within paved areas to meet Department of Public Work or California State Highway requirements in accordance with the permits.
 - 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.
 - All backfill and fill outside of the street right of way shall be compacted to 90 percent of the maximum density as determined by ASTM Soil Compaction Test D 1557-73, Method "C", unless otherwise specified. This shall be certified by a qualified Civil Engineer. The certification shall be submitted to the Land Development Division, Permit Section of the County of Los Angeles Department of Public Works prior to the acceptance of the work by the County.
 - Manhole tops in unimproved rights of way to be six inches above finished grade.
 - Manhole tops to be tested for leakage per Section 306-1.4 of the "Standard Specification for Public Works Construction" and "Special Provisions for the Construction of Sanitary Sewer" if applicable.
 - Manhole tops in improved rights of way to be level with finished grade.
 - All wyes 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.
 - All Ductile iron pipe shall be lined with Protecto 401 Ceramic Epoxy lining.
 - Cured in place pipe liner shall be used for all extra vitrified clay pipe if lining is required.
 - All Chimneys shall have terminal cleanout structure per SPPWC std. plan 204-2, with traffic graded rim and cover.
- LOT NOS. 248 & 249 ARE RESTRICTED FROM CONSTRUCTION OF BUILDINGS AND WILL NOT BE SERVED BY THIS SEWER.**
- ISSUE NO HOUSE LATERAL CONNECTION PERMITS UNTIL OUTLET SEWER PC 12354 IS ACCEPTED FOR PUBLIC USE BY THE COUNTY OF LOS ANGELES.**
- BWV BACKWATER VALVES SHALL BE NECESSARY FOR LOTS: 1,2,4,6,13,42,49,50,52,54,55,58,61,63,66,69, 70,81,84,85,88,91,95,96,99-101.**
- SEWER VIDEO OF ALL SEGMENTS SHALL BE SUBMITTED PRIOR TO PARTIAL FIELD ACCEPTANCE (95%) AND COMPLETED FIELD ACCEPTANCE (98%). 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 SEWER MANHOLE SHAFTS AND FRAMES SHALL BE WATERTIGHT WITH BUTYL RUBBER MASTIC JOINT SEALING COMPOUND OR APPROVED EQUAL BY THE L.A. COUNTY PUBLIC WORKS DEPT.**
- NOTES:**
 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.

BUILDING AND SAFETY DISTRICT OFFICE: SANTA CLARITA
 NOTES: NUMBER IN CIRCLE INDICATES PAGE NUMBER.
 ALL MAINLINE SANITARY SEWERS ARE WITHIN THE SANITARY SEWER EASEMENT.
 P.C. 12109A TR. NO. 60922-01-PHS 1
 THOMAS GUIDE PAGE: 4551-J1, 4462-A10, 4461-J7, G5



BASIS OF BEARING:
 THE BEARINGS SHOWN HEREON ARE BASED ON THE BEARING N42°22'16"E OF THE CENTERLINE OF SIERRA HIGHWAY AS SHOWN ON MAP OF TRACT NO. 13591 FILED IN BOOK 320, PAGE 28 THROUGH 30, INCLUSIVE, OF MAPS, RECORDS OF LOS ANGELES COUNTY, AND SHOWN AS N42°26'47"E ON THIS MAP.

SANITARY SEWER PLANS FOR PHASE NO. 1
 TRACT NO. 60922-01 PC NO. 12109A
 FINAL MAPS, SEWER AND LANDSCAPING SUBDIVISION PLAN CHECKING SECTION
 DATE 2/28/18

SIKAND ENGINEERING ASSOCIATES CONSULTING ENGINEERS
 15230 BURBANK BLVD., VAN NUYS, CALIFORNIA 91411 (818) 787-8550

DPW LACOUNTY.GOV

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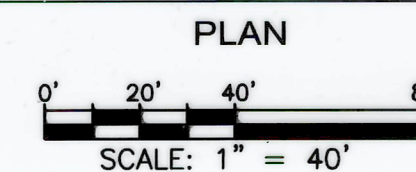
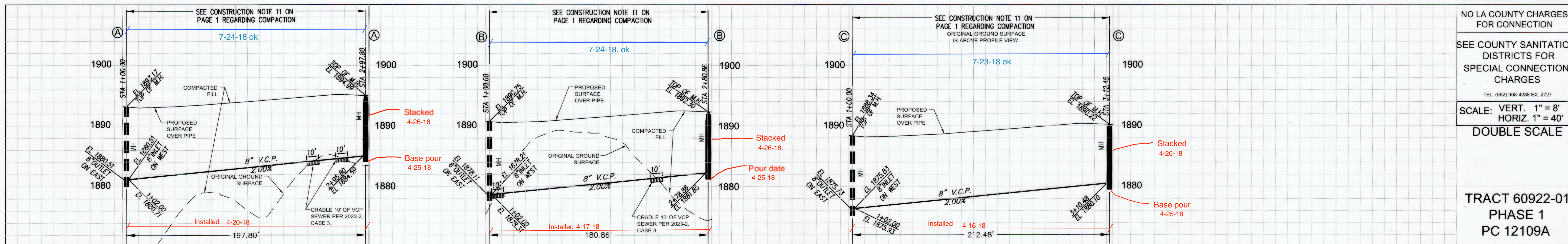
NO LA COUNTY CHARGES FOR CONNECTION

SEE COUNTY SANITATION DISTRICTS FOR SPECIAL CONNECTION CHARGES

SCALE: VERT. 1" = 8'
HORIZ. 1" = 40'

DOUBLE SCALE

TRACT 60922-01
PHASE 1
PC 12109A



AS-BUILT

ALL STREETS ARE PRIVATE DRIVEWAY AND FIRE LANES AND ARE DEDICATED AS SEWER EASEMENTS PER TR. 60922-01. BACKFILL PER NOTE 11.

* = CONSTRUCT HOUSE LATERALS PER APWA STD. S-25 CASE 1
BWV = BACK WATER VALVES SHALL BE REQUIRED.

CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C9	23°27'03"	280.14'	114.66'
C10	23°34'15"	281.13'	115.65'
C11	13°28'54"	242.28'	56.87'

REVIEWED BY LAND DEVELOPMENT DIVISION

DATE: 2/28/18

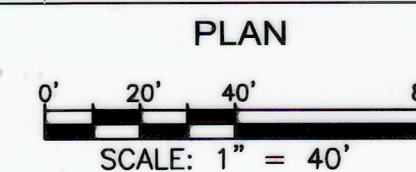
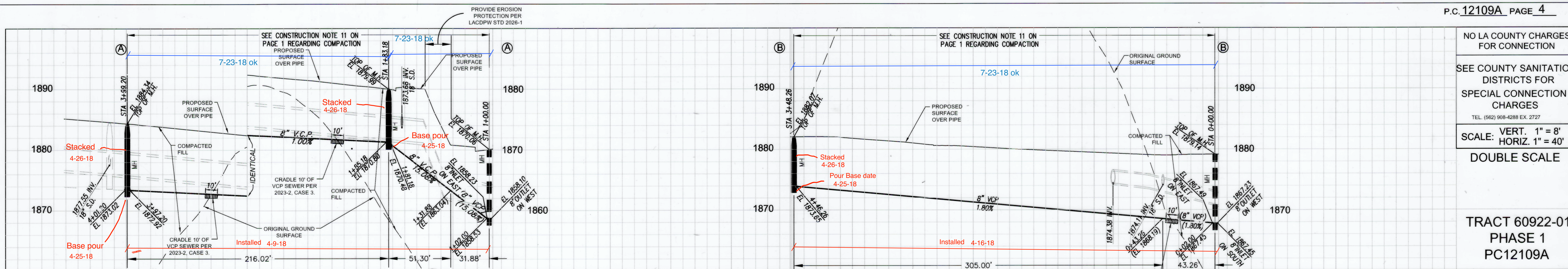
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CURVE TABLE			
CURVE	DELTA	RADIUS	LENGTH
C6	20°06'27"	405.00'	142.13'

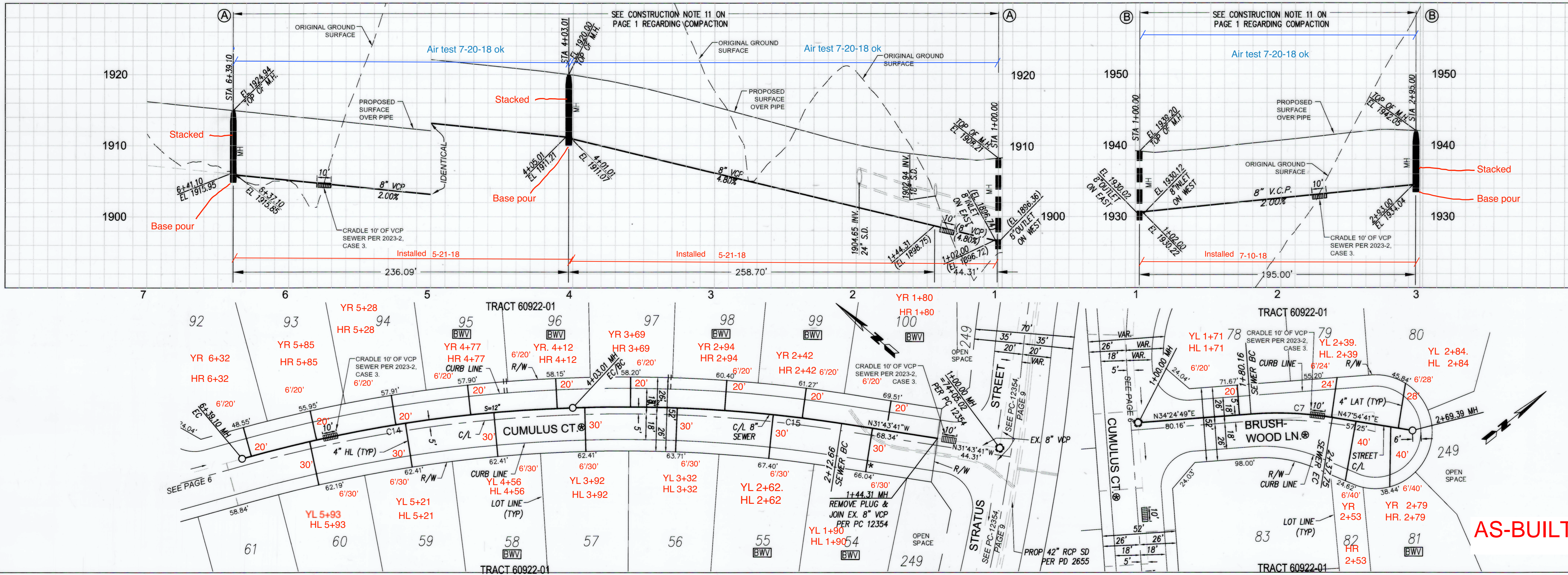
REVIEWED BY LAND DEVELOPMENT DIVISION

DATE: 2/28/18

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SHEET 3



PLAN
 SCALE: 1" = 40'

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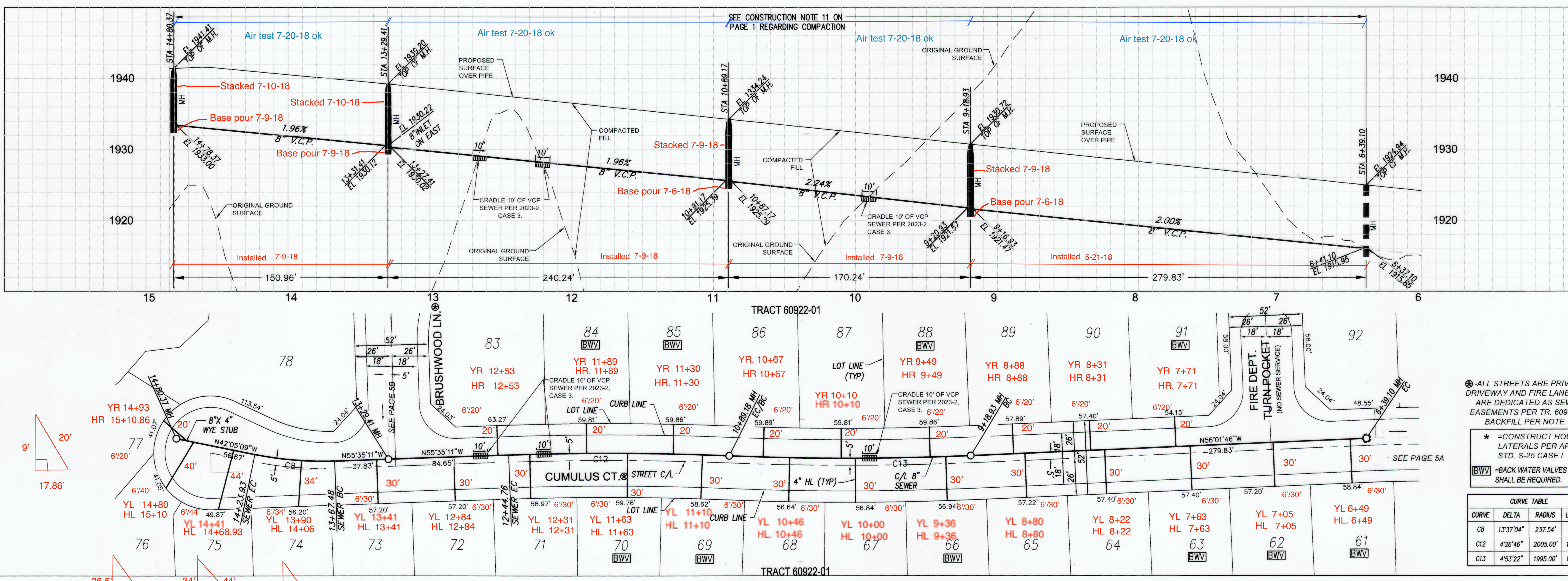
* = CONSTRUCT HOUSE LATERALS PER APWA STD. S-25 CASE I
 [BWV] = BACK WATER VALVES SHALL BE REQUIRED.

CURVE	DELTA	RADIUS	LENGTH
C7	133°0'15"	244.34'	57.59'
C14	132°7'35"	1005.00'	236.09'
C15	103°1'09"	1005.00'	190.36'

REGISTERED PROFESSIONAL ENGINEER
 CRAIG YOUNG
 No. 32363
 Exp. 12-31-18
 CIVIL
 STATE OF CALIFORNIA

REVIEWED BY LAND DEVELOPMENT DIVISION
 BY: [Signature] DATE: 2/28/18
 FINAL MAPS, SEWER AND LANDS DIVISION SUBDIVISION PLAN CHECKING SECTION

NO LA COUNTY CHARGES FOR CONNECTION
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 TRACT 60922-01
 PHASE 1
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PLAN
 SCALE: 1" = 40'

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 [BWV] = BACK WATER VALVES SHALL BE REQUIRED.

CURVE	DELTA	RADIUS	LENGTH
C8	133°7'04"	237.54'	56.46'
C12	42°6'46"	2005.00'	155.58'
C13	43°3'22"	1995.00'	170.24'

REGISTERED PROFESSIONAL ENGINEER
 CRAIG YOUNG
 No. 32363
 Exp. 12-31-18
 CIVIL
 STATE OF CALIFORNIA

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