

**GENERAL NOTES:**

1. NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHTS-OF-WAY OR EASEMENTS OF THE CITY OF RIVERSIDE WITHOUT A VALID CONSTRUCTION PERMIT, OR A STREET OPENING PERMIT, OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT OF WAY IN ACCORDANCE WITH THE PROVISIONS OF LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.
3. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, ITS SUPPLEMENTAL NOTES AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
4. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
5. QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
6. THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR REESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED, OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
7. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
8. WHERE NEW PAVEMENT IS TO JOIN THE EXISTING PAVEMENT, THE EDGE OF THE EXISTING PAVEMENT SHALL BE TRIMMED IN A SMOOTH AND STRAIGHT LINE. CONSTRUCT MATCH-UP PAVING AS SHOWN ON THE PLANS AND OVERLAY PAVING AS DIRECTED IN THE FIELD TO PRODUCE A SMOOTH SECTION.
9. CONSTRUCT DRIVEWAY APPROACHES PER STANDARD DRAWING 302 TYPE PL I. EXACT SIZE AND LOCATION TO BE AS SHOWN AND STAKED BY THE PRIVATE ENGINEER PRIOR TO CONSTRUCTION OF THE CURB AND GUTTER.
10. ON ALL AREAS WITHIN PUBLIC RIGHT OF WAY WHERE THE FILL IS ONE (1) FOOT OR GREATER, A LETTER WILL BE REQUIRED FROM THE SOILS ENGINEER, CERTIFYING THE COMPACTION OF THE FILL BELOW SUBGRADE, PRIOR TO ISSUANCE OF THE CONSTRUCTION PERMIT/CUT SHEETS.
11. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE # 1-800-227-2600, TWO WORKING DAYS BEFORE DIGGING. NO CONSTRUCTION PERMIT WILL BE ISSUED BY THE PUBLIC WORKS DEPARTMENT INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY USA.
12. CONTRACTOR IS TO VERIFY SEWER ELEVATION PRIOR TO CONSTRUCTION.
13. LOCATION OF LATERALS TO BE DETERMINED IN THE FIELD AT THE DIRECTION OF THE OWNER. AVOID CONFLICT WITH PROPOSED AND/OR EXISTING FACILITIES.
14. NO FINISHED FLOOR ELEVATION SHALL BE LESS THAN 6" ABOVE THE UPPER MANHOLE RIM ELEVATION OF THE SEWER LINE SEGMENT BEING CONNECTED TO, WITHOUT HAVING A PROPER BACKWATER VALVE INSTALLED IN THE LATERAL.
15. IN PAVEMENT OVERLAY AREAS, ANY DISTRESSED EXISTING PAVEMENT SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE INSPECTOR PRIOR TO OVERLAYING WITH A.C. PAVING.
16. THE CONTRACTOR SHALL COORDINATE TRENCHING FOR CABLE TELEVISION WITH OTHER TRENCHING WITHIN THE PROJECT.
17. ALL TRAFFIC SIGNS SHALL BE INSTALLED PRIOR TO OPENING THE STREETS TO TRAFFIC.
18. ANY TRAFFIC CONTROL STRIPING OBLITERATED AND/OR WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITHIN FIVE DAYS AFTER NOTIFICATION FROM THE CITY INSPECTORS.
19. FINAL STRIPING FOR TRAFFIC CONTROL AND/OR PAVEMENT MARKING TO BE THE RESPONSIBILITY OF THE DEVELOPER.
20. R-VALUE SHALL BE TAKEN BY A SOILS ENGINEER FOR FINAL PAVEMENT SECTION CALCULATION, PRIOR TO THE APPROVAL OF THIS PLAN.

**STREET LIGHT COORDINATION NOTE:**

STREET LIGHTS TO BE LOCATED AND INSTALLED PER CITY OF RIVERSIDE REQUIREMENTS AS SPECIFIED ON THE UNDERGROUND STRUCTURE AND STREET LIGHT PLANS. FOR COORDINATING STREET LIGHT INSTALLATION, CONTACT VAHID BAZEL AT (951) 826-5830.

**WATER DEPARTMENT NOTE:**

DEVELOPER TO GIVE CITY WATER DIVISION FIVE (5) WORKING DAYS WRITTEN NOTICE PRIOR TO START OF CONSTRUCTION AND TO ALLOW CITY TEN (10) WORKING DAYS FOR COMPLETION OF WORK. (951) 351-6368

**ENGINEER'S NOTICE TO CONTRACTORS:**

1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
2. CARE SHOULD BE TAKEN TO PREVENT GRADED DITCHES AND SWALES FROM UNDERMINING STREET IMPROVEMENTS. UPON INSPECTION OF THE SITES, THE CITY ENGINEER MAY REQUIRE TEMPORARY GUNITE SWALES.
3. ALL AREAS SHALL SLOPE A MINIMUM OF 1.0% TO STREETS, DRIVE OR SWALE UNLESS OTHERWISE NOTED.
4. QUANTITIES SHOWN HERE ARE FOR PLAN CHECKING PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO PERFORM HIS OWN QUANTITIES TAKEOFF.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS; DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY OF RIVERSIDE AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY OF RIVERSIDE OR THE ENGINEER.

# CITY OF RIVERSIDE STREET IMPROVEMENT PLAN FOR TRACT 36713

**INDEX:**

SHEET 1	TITLE SHEET AND INDEX MAP
SHEET 2	TYPICAL SECTIONS AND CONSTRUCTION NOTES
SHEET 3	TRAIL GRADING AND CONSTRUCTION NOTES
SHEET 4	PLAN AND PROFILE (VICTORIA AVE.)
SHEET 5	PLAN AND PROFILE (MILLSWEET PL.)
SHEET 6	PLAN AND PROFILE (GOLDTREE CT.)

**ENGINEER:**

SAKE ENGINEERS, INC.  
400 S. RAMONA AVE. STE. 202  
CORONA, CA 92879  
(951) 279-4041 PH.  
(951) 279-2830 FAX

**SOURCE OF TOPOGRAPHY:**

LANDMARK SURVEYING  
MAPPING & ENGINEERING INC.  
14586 CHOKE CHERRY DRIVE  
VICTORVILLE, CA 92392  
(760) 955-4141 PH.  
(760) 955-3441 FAX

**OWNER/DEVELOPER:**

LA SIERRA VICTORIA DEVELOPMENT LLC  
HITESH PATEL  
19215 WILD MUSTANG CT.  
APPLE VALLEY, CA 92307  
(760) 963-3475 PH.

**ASSESSORS PARCEL NO.:**

136-220-016

**REFERENCE DRAWINGS:**

SEWER DWG.	S - 1398
	S - 2157
STREET DWG.	R - 4421
GRADING DWG.	PW17-0496

**LEGAL DESCRIPTION:**

LOT 6 IN BLOCK 12 OF THE RESUBDIVISION OF LANDS OF J. F. MOULTON AND H. B. PRAED, AS SHOWN BY MAP ON FILE IN BOOK 1 PAGES 49 AND 50 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE.

**BASIS OF BEARINGS & ELEVATIONS:**

BASIS OF BEARINGS: THE CENTERLINE OF VICTORIA AVENUE BEING NORTH 55°35'00"EAST AS SHOWN ON P.M.B. 153/15-17.

CITY OF RIVERSIDE BM# D3-A2; P.K. NAIL AND TAG AT NORTHERLY CORNER OF A CONCRETE SLAB AT THE SOUTHERLY CORNER OF LA SIERRA AVE. AND THE WESTERLY INTERSECTION OF DUFFERIN AVE.

ELEVATION: 882.135' (1988 ELEVATION)

**UTILITIES**

ELECTRIC	CITY OF RIVERSIDE
GAS	SO. CAL. GAS CO.
WATER	CITY OF RIVERSIDE
SEWER	CITY OF RIVERSIDE
TELEPHONE	PACIFIC TELEPHONE

**LEGEND**

	FLOW LINE
	PROPERTY LINE
	CENTER LINE
	EXISTING WATER LINE
	EXISTING SANITARY SEWER LINE
	EXISTING SLOPE
	PROPOSED SLOPE
	EXISTING CONTOUR
	PROPOSED CONTOUR

G.B.	= GRADE BREAK
H.P.	= HIGH POINT
E.P.	= EDGE OF PAVEMENT
D.L.	= DAYLIGHT
G.S.	= GROUND SHOT
W.V.	= WATER VALVE
W	= WATER MAIN
W.M.	= WATER METER
FL	= FLOW LINE
F.G.	= FINISHED GRADE
BM	= BENCH MARK
LS	= LANDSCAPING
T.G.	= TOP OF GRADE
INV.	= INVERT ELEVATION
A.C.	= ASPHALT CONCRETE
TW	= TOP OF WALL
R	= RADIUS
TF	= TOP OF FOOTING
(600)	= EXIST. ELEVATION
600	= PROPOSED ELEVATION
FG	= FINISHED GRADE
FS	= FINISHED SURFACE
TB	= TOP OF BERM
TOE	= TOE OF SLOPE
TOP	= TOP OF SLOPE
TOP/D.L.	= TOP OF SLOPE/DAYLIGHT
TC	= TOP OF CURB
FF	= FINISHED FLOOR

**NOTICE TO CONTRACTORS:**

CONTRACTOR SHALL POTHOLE AT THE TIE-IN STATIONS AND AT ANY OTHER POINTS OF POTENTIAL CONFLICTS WITH UNDERGROUND FACILITIES BEFORE STARTING CONSTRUCTION. EXISTING SUBSURFACE UTILITY DATA ON DRAWINGS WERE COMPILED FROM INFORMATION FURNISHED BY VARIOUS SOURCES. NEITHER THE ACCURACY NOR THE COMPLETENESS OF THE INFORMATION SHOWN IS GUARANTEED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING WATER MAINS, GAS MAINS, SANITARY SEWERS, STORM DRAINS, ELECTRIC CONDUITS, TELEPHONE LINES AND ANY OTHER UTILITIES WHICH MAY CONFLICT WITH THE DESIGN AND CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. RIM ELEVATIONS SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE RING AND COVER SHALL BE ADJUSTED IN THE FIELD TO MATCH THE FINISHED SURFACE OF THE PAVEMENT TO FORM A SMOOTH DRIVING SURFACE. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS FOR THE REPAIR OF ANY AND ALL DAMAGE TO THE CONTRACT WORK OR TO ANY UTILITY (WHETHER PREVIOUSLY KNOWN OR DISCLOSED DURING THE WORK) AS MAY BE CAUSED BY HIS OPERATIONS. UTILITIES NOT SHOWN ON THE DRAWING TO BE RELOCATED OR ALTERED BY OTHERS SHALL BE MAINTAINED BY THE CONTRACTOR. AT THE COMPLETION OF THE CONTRACT WORK, THE CONTRACTOR SHALL LEAVE ALL UTILITIES AND APPURTENANCES IN A CONDITION SATISFACTORY TO THE OWNERS AND THE CITY.

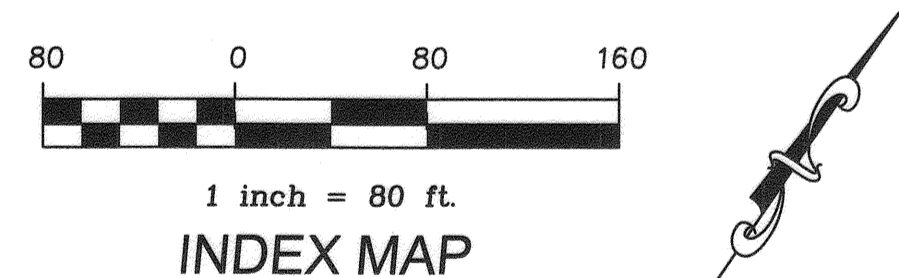
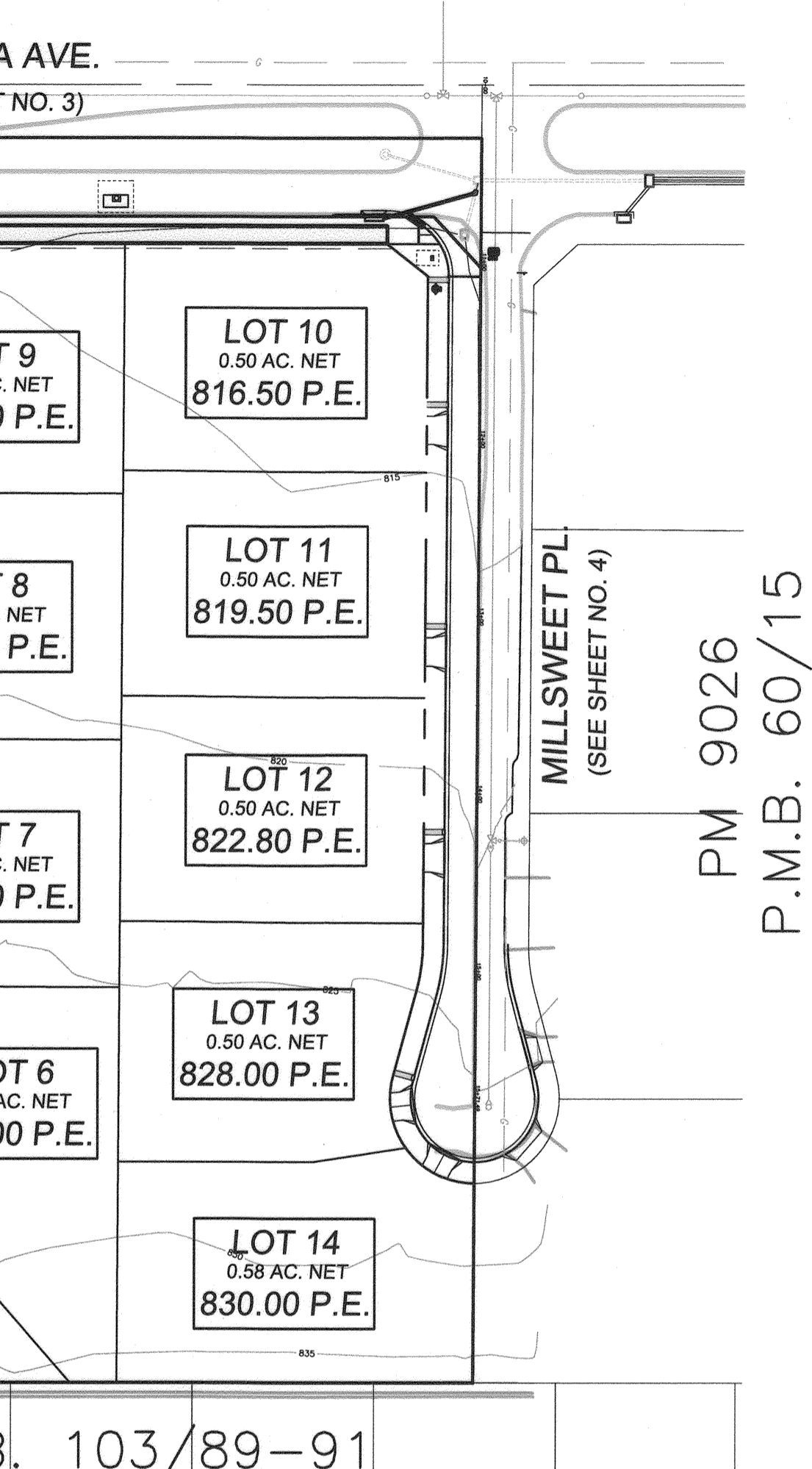
**PROJECT AREA:**

TOTAL AREA= 9.91 ACRES  
TOTAL AREA DISTURBED= 8.81 ACRES

CITY OF RIVERSIDE BUSINESS TAX ACCOUNT #74172 EXP. 7/31/19

**SAKE ENGINEERS, INC.**  
www.sakeengineers.com  
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400 S. RAMONA AVE., STE. 202  
CORONA, CALIFORNIA 92879  
(951) 279-4041 FAX: (951) 279-2830

MARK	APPR.	DATE
DESIGNED BY SA	DRAWN BY RL	CHECKED BY SA



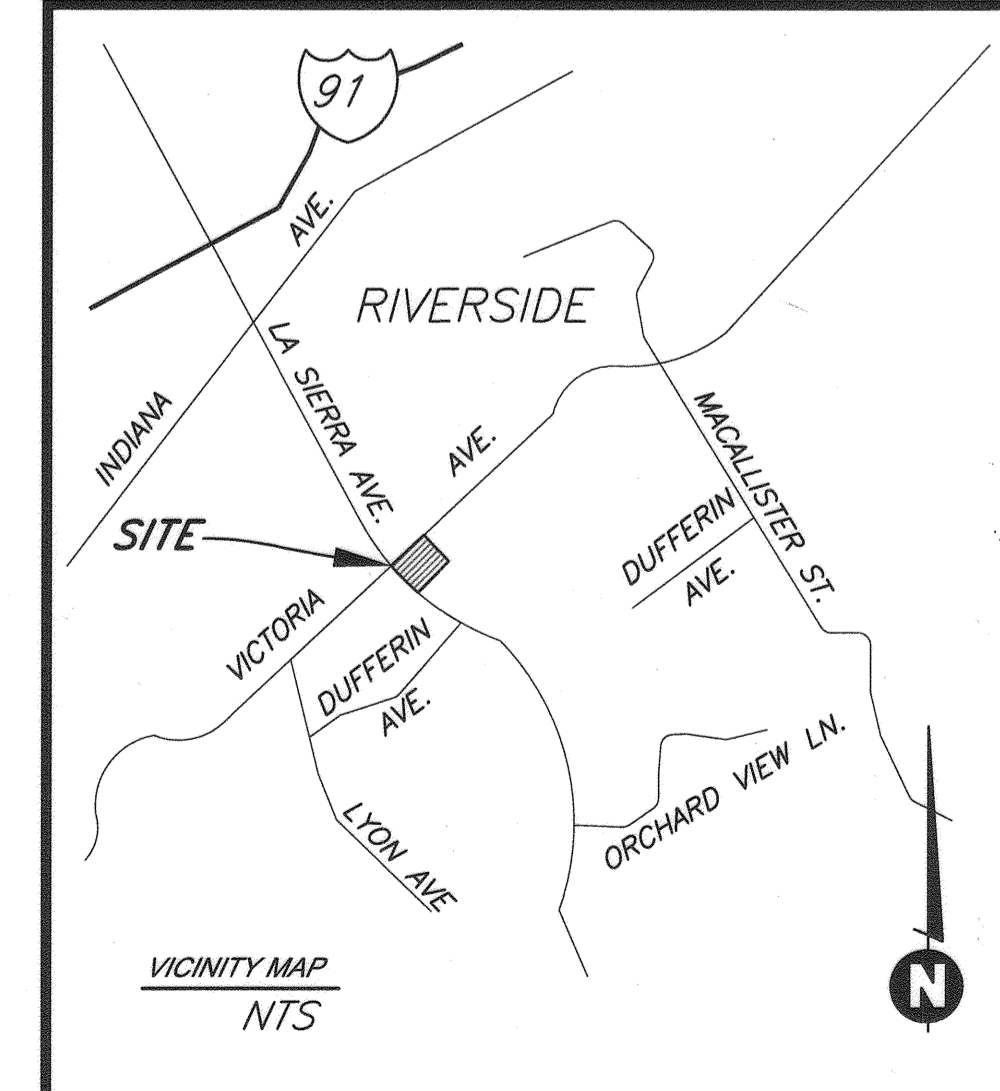
**EMERGENCY PHONE NUMBERS:**

CITY OF RIVERSIDE	(951) 826-5321	GOODHEW AMBULANCE	(951) 684-5520
FIRE DEPARTMENT	(951) 826-5700	PACIFIC BELL	(800) 303-3000
CITY OF RIVERSIDE	(951) 826-5366	ELECTRIC DEPT.	(951) 687-0791
POLICE ALERT	(951) 351-6096	SOUTHERN CALIFORNIA	(800) 427-2200
CITY OF RIVERSIDE	(951) 351-6127	GAS COMPANY	(800) 427-2200
TRAFFIC DIVISION	(951) 351-6127	UNDERGROUND SERVICE	(800) 227-2600
TRAFFIC SIGNALS	(951) 788-7132		
STREET SUPERINTENDENT			
RIVERSIDE SCHOOLS			

CITY OF RIVERSIDE, WATER DIVISION REVIEWED FOR CONFLICTS <i>Chris Lopez</i> DATE 4/29/19	CITY OF RIVERSIDE, ELECTRIC DIVISION REVIEWED FOR CONFLICTS <i>[Signature]</i> DATE 4/30/19
------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------

CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	
APPROVED BY	DATE
PRINCIPAL ENGINEER	4/29/19
ENGINEERING MANAGER	4/29/19
TRAFFIC DIVISION	4/29/19
PARK AND RECREATION	4/29/19
CITY ENGINEER	DATE 2-28-19

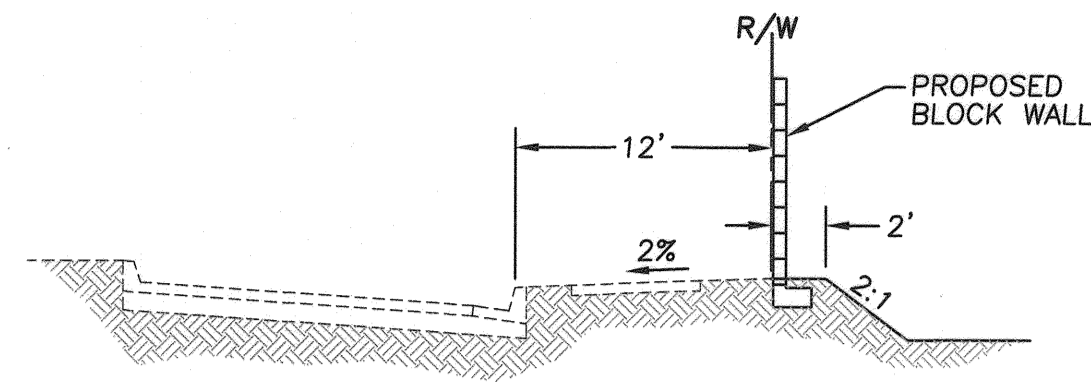
THOMAS BROTHERS MAP PAGE/GRID:  
PAGE 744, GRID H-4, 2004 EDITION



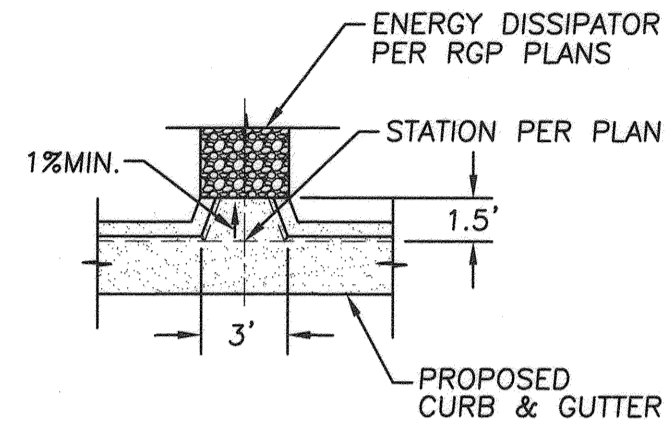
**DIG ALERT**  
TOLL FREE  
1-800-227-2600  
48 HOURS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER  
SAKE ENGINEERS, INC.  
0053038  
Exp. 6/30/19  
CIVIL  
STATE OF CALIFORNIA  
*[Signature]* 1-15-19  
R.C.E. No. DATE

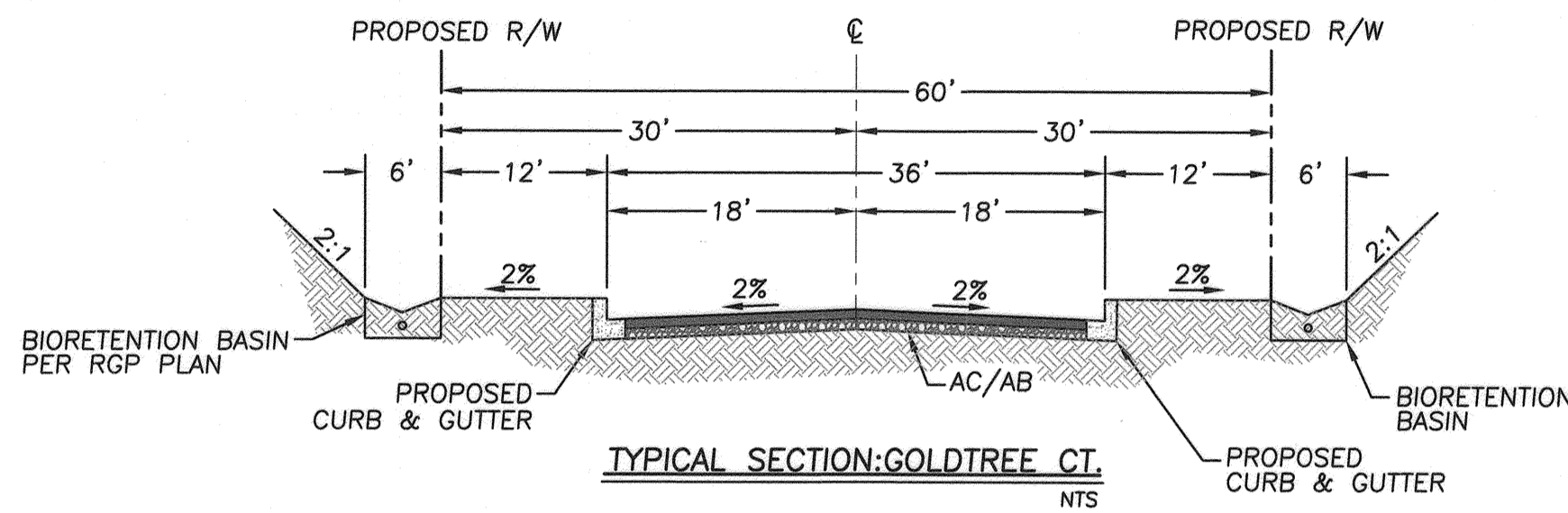
STREET IMPROVEMENT PLANS	PROJECT NO. PW17-0497
TRACT 36713 COVER SHEET	R-4421
HORIZ. SCALE: NONE	VERT. SCALE: NONE
SHEET 1	SHEET 6
FILE NO.	



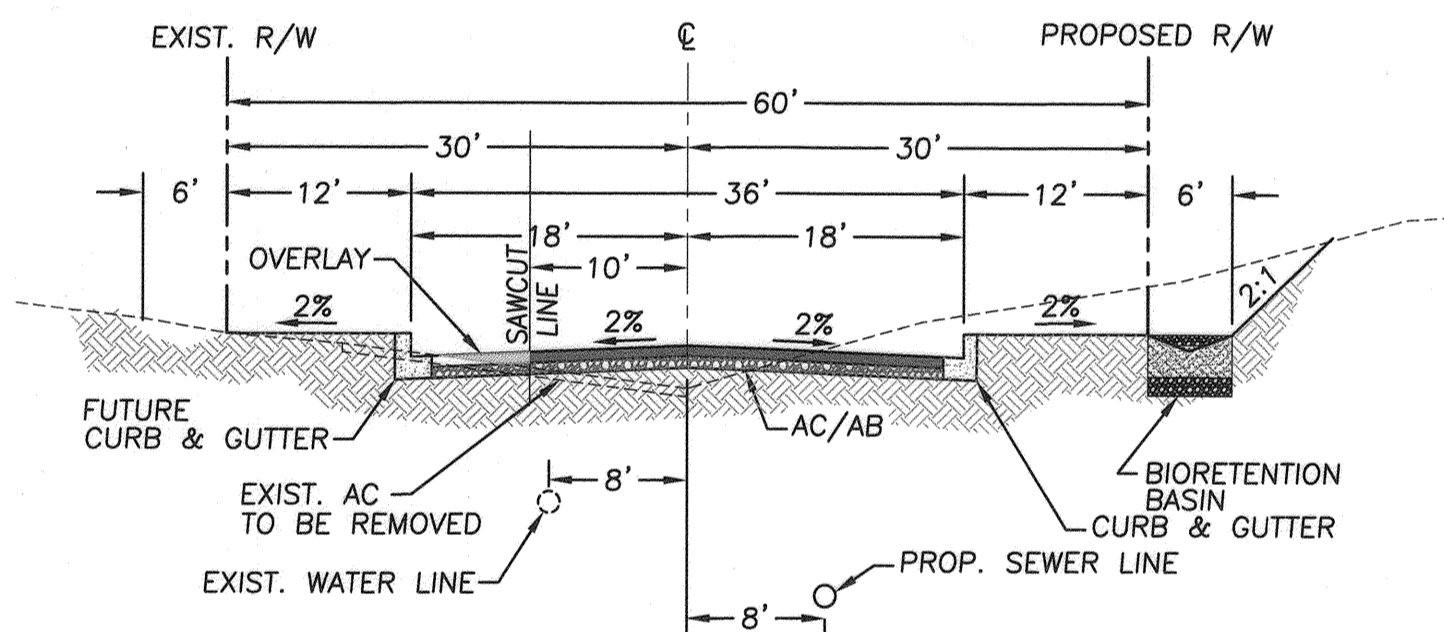
TYPICAL SECTION: LA SIERRA AVENUE  
NTS



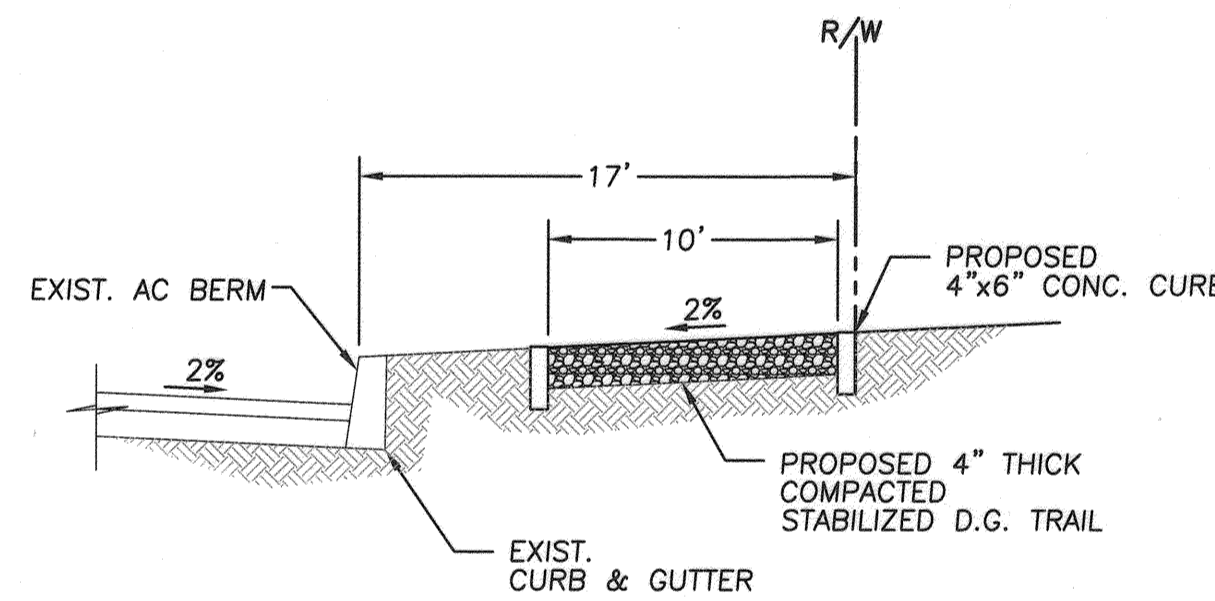
3' WIDE CURB OPENING DETAIL  
NTS



TYPICAL SECTION: GOLDTREE CT  
NTS



TYPICAL SECTION: MILLSWEET LANE  
N.T.S.

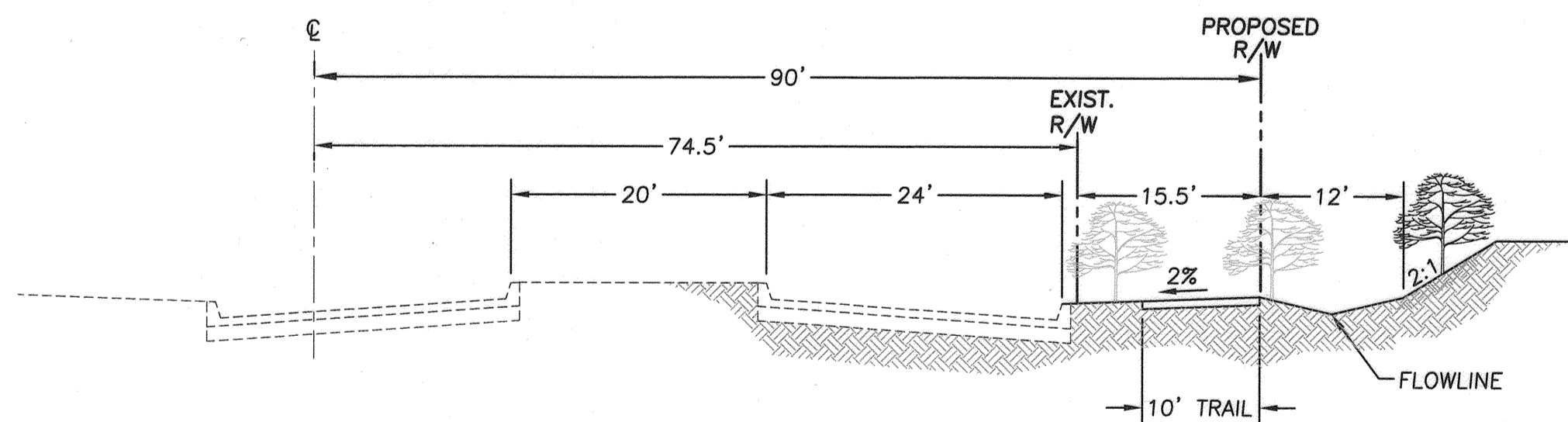


TYPICAL SECTION: D.G. TRAIL  
NTS

NOTE  
PROTECT IN PLACE TWO ROWS OF EXISTING MATURE ORANGE TREES AND A THIRD ROW OF SHADE TREES TO BE ADDED ACROSS THE FRONTAGE OF VICTORIA AVENUE IN ACCORDANCE WITH THE VICTORIA AVENUE ADHOC COMMITTEE DESIGN AND DEVELOPMENT STANDARDS AND THE GENERAL 2025 TRAILS MASTER PLAN.

COMPACTED STABILIZED DECOMPOSED GRANITE IS TO BE USED FOR THE TRAIL ACCORDING TO TRAIL GRADING AND CONSTRUCTION SPECIFICATIONS SECTION 02211 AND TRAIL DETAIL 1. (SEE SHEET 3)

AT-GRADE OR ABOVE-GRADE FIXTURES SUCH AS UTILITY BOXES, CABINETS, VALVES, AND SIMILAR, SHALL NOT BE LOCATED WITHIN THE MULTIPURPOSE TRAIL.

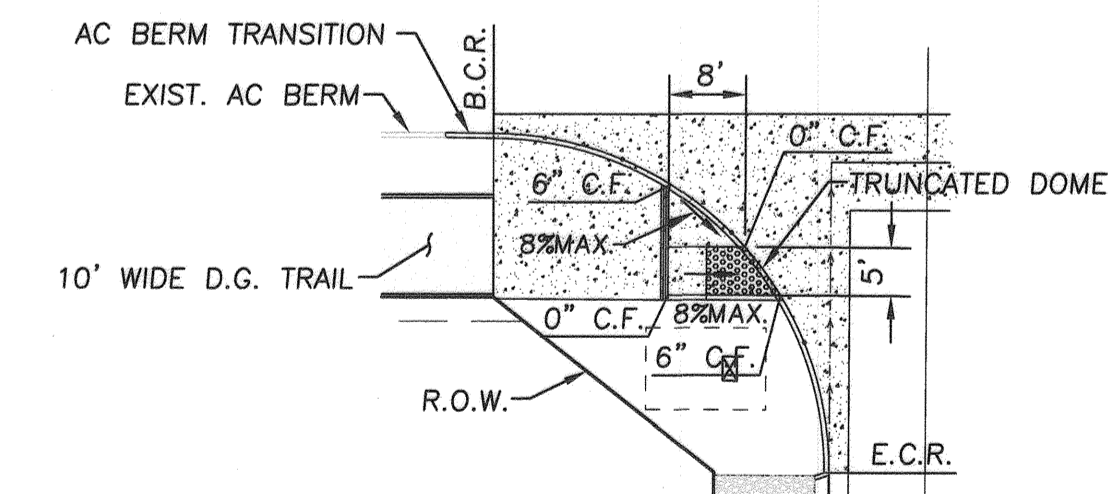


TYPICAL SECTION: VICTORIA AVENUE  
N.T.S.

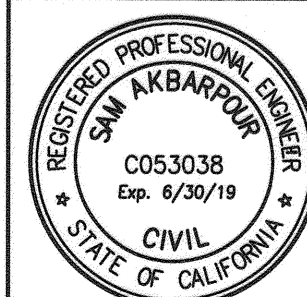
NOTE  
PROTECT IN PLACE TWO ROWS OF EXISTING MATURE ORANGE TREES AND A THIRD ROW OF SHADE TREES TO BE ADDED ACROSS THE FRONTAGE OF VICTORIA AVENUE IN ACCORDANCE WITH THE VICTORIA AVENUE ADHOC COMMITTEE DESIGN AND DEVELOPMENT STANDARDS AND THE GENERAL PLAN 2025.

CONSTRUCTION NOTES:	QUANTITIES:
1 SAWCUT & REMOVE PORTION OF EXIST. PAVEMENT	6,100 S.F.
2 SAWCUT & REMOVE PORTION OF EXIST. AC BERM	550 L.F.
3 GRIND EXIST. A.C. AND OVERLAY (0.15' MIN.) PER PLAN	6,426 S.F.
* 4 CONST. 6" A.C. OVER 6" A.B.	36,800 S.F.
5 CONST. 6" CURB & GUTTER PER CITY OF RIVERSIDE STD. 200 (TYPE I)	1,480 L.F.
6 CONST. DRIVEWAY APPROACH PER CITY OF RIVERSIDE STD. 302 (PL I)	14 EA.
7 CONST. 3' WIDE OPENING PER DETAIL HEREON	14 EA.
8 CONST. AC BERM PER CITY OF RIVERSIDE STD 250 (TYPE I)	25 L.F.
9 CONST. CROSS GUTTER PER CITY OF RIVERSIDE STD. 220 (W=6'; D=1')	1 EA.
10 RELOCATE EXIST. STREET LIGHT PER DEVELOPER/CONTRACTOR	1 EA.
11 CONST. 10' WIDE D.G. TRAIL PER DETAIL HEREON AND SHEET NO. 3	500 L.F.
12 APPLY THERMOPLASTIC 12" WHITE LIMIT LINE PER CALTRANS 2010 STD. PLAN A24E	2 EA.
13 APPLY THERMOPLASTIC "STOP" PAVEMENT MARKING PER CALTRANS 2010 STD. PLAN A24D	2 EA.
14 INSTALL 36" STOP SIGN R1-1 PER CA. MUTCD 2014 FIG. 3B-103 (CA)	1 EA.
15 INSTALL STREET NAME SIGN PER CITY OF RIVERSIDE STD. 662	1 EA.
16 CONSTRUCT PCC WHEELCHAIR RAMP PER DETAIL HEREON	3 EA.
17 CONST. TRENCH AND BACKFILL PER CITY RIVERSIDE STD. 453	500 S.F.
20 REMOVE EXIST. INLET STRUCTURE	1 EA.
21 REMOVE PORTION OF EXIST. 18" RCP	22 L.F.
22 CONST. 18" RCP CL-IV STORM DRAIN	54 L.F.
23 CONST. TYPE I CATCH BASIN PER CITY OF RIVERSIDE STD. 400	1 EA.
24 CONST. CONCRETE COLLAR PER CITY OF RIVERSIDE STD. 424	1 EA.
25 CONST. 12" RCP	1 EA.

\* ACTUAL PAVEMENT SECTION WILL BE BASED ON THE R-VALUE DETERMINED BY A SOILS ENGINEER ON SITE.



TYPICAL A.D.A. RAMP DETAIL  
CITY OF RIVERSIDE STD. 304  
(TYPE 3) MODIFIED  
NTS



Signature: [Signature] DATE: 1-15-19  
R.C.E. No. DATE

CITY OF RIVERSIDE BUSINESS TAX ACCOUNT #74172 EXP. 7/31/19

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400 S. RAMONA AVE., STE. 202  
CORONA, CALIFORNIA 92679  
(951) 279-4041 FAX: (951) 279-2830

PREPARED BY: [Signature] R.C.E. NO. 53038  
DATE: Jan. 15, 2019

MARK APPR. DATE  
DESIGNED BY SA DRAWN BY RL CHECKED BY SA

CITY OF RIVERSIDE, WATER DIVISION  
REVIEWED FOR CONFLICTS  
Chris Apner DATE: 1/29/19

CITY OF RIVERSIDE, ELECTRIC DIVISION  
REVIEWED FOR CONFLICTS  
[Signature] DATE: 1/30/19

BENCHMARK:  
CITY OF RIVERSIDE BM# D3-A2; P.K. NAIL AND TAG AT NORTHERLY CORNER OF A CONCRETE SLAB AT THE SOUTHERLY CORNER OF LA SIERRA AVE. AND THE WESTERLY INTERSECTION OF DUFFERIN AVE.  
ELEVATION: 882.135' (1988 ELEVATION)

CITY OF RIVERSIDE, CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
APPROVED BY: [Signature] DATE: 2-28-19  
PRINCIPAL ENGINEER  
ENGINEERING MANAGER  
TRAFFIC DIVISION  
PARK AND RECREATION

STREET IMPROVEMENT PLANS  
TRACT 36713  
COVER SHEET  
PROJECT NO. PW17-0497  
R-4421  
SHEET 2 SHEET 6  
FILE NO.

SECTION 02211-TRAIL GRADING AND CONSTRUCTION

PART 1 - GENERAL

1.01 STANDARD SPECIFICATIONS: The provisions of the "Standard Specifications for Public Works Construction" shall apply except as modified herein.

1.02 SCOPE: The Work of this Section shall consist of furnishing all labor, materials, equipment, appliances and services necessary for the execution and completion of all Trail Grading and Construction Work as shown on the Plans and as described in the Specifications including, but not necessarily limited to, the following:

- Rough grading as shown on the plans, including cut, fill, backfill and backfill compaction
Subgrade preparation for D. G. paving including any over-excavation and re-compaction as may be required
Excavation of soils for all trail fence posts and structures
Excavation, backfill and compaction of soils for all mowcurbs
Soil compaction as required;
Protective measures;
Dust and noise abatement;
Borrow from and/or export to a local borrow/disposal site as directed and as necessary for a balanced grading operation;
Fine grading of the work site;
Decomposed Granite Paving;
Soil testing as required;
Coordination with Work of other Sections;
Clean-up; and;
Erosion Repairs, Guarantees and Warranty Work.

1.03 RELATED WORK SPECIFIED ELSEWHERE: Finish Grading in Landscaped Areas Section 02480

1.04 QUALITY ASSURANCE:

- Other Requirements: All Work of this Section shall comply with the requirements of the following:
1. The Grading Code of the City of Riverside.
2. The Soils Engineering Investigation Reports for the site prepared by Soils Engineer (see Appendix \_\_\_\_).
Tests and Inspections:
1. All Work in this Section shall be subject to the observation and testing as required by the Soils Engineer selected by City.
2. The number and location of soils tests shall be at the discretion of the Soils Engineer to assure uniformity and compliance with the City Grading Ordinance, and shall be at least one test per two vertical feet of fill, but not less than one test per 500 cubic yards, all as approved by the Parks Department Representative.
3. The costs of services of the Soils Engineer for specified field density and maximum density tests, compaction reports and certificates of compliance, will be borne by City except that additional tests and recompositions made necessary by inadequate compaction, inadequate materials provided by Contractor, or inaccurate excavations shall be paid for by Contractor.

1.05 GRADING A "BALANCED" OPERATION: It is the intent of the Plans and Specifications that the grading shall be a balanced operation with site material. No import nor export is contemplated. If during grading operations an excess or deficiency of earth becomes apparent, Contractor shall notify the Parks Department Representative immediately in writing and ask for direction in adjustment of plan grades such that the grading shall be completed with site material conforming as nearly as possible to the finish grades shown and insuring positive drainage all at no additional cost to City.

1.06 WATER: See Special Provisions Section 7-8.5 Temporary Light, Power, and Water regarding temporary construction water.

1.07 JOB CONDITIONS:

- Protection of Existing Items:
1. Contractor shall furnish, place and maintain all shoring and bracing as may be required for protection of existing structures and utility services during execution of the Work.
2. All bench marks, monuments and other reference points shall remain undisturbed unless specifically directed otherwise by the Park Projects Inspector.
Coordination with Others:
1. Contractor shall give written notice to the Parks Department Representative, utility agencies, and other legal authorities prior to starting Work.
2. Contractor shall coordinate Contractor's operations with other trades, utility agencies, and other affected public departments to assure continuity for both access and service of all utility service distribution lines, in conformance with applicable requirements of these organizations. No services to any property shall be impeded.
Abandoned and Unknown Utilities:
1. Abandoned lines, meters and boxes, obstructions or piping, shall be removed, plugged, or capped in accordance with the requirements and approval of the agencies affected, or as directed by the Park Projects Inspector.
2. Where unmarked utility lines or other underground obstructions or piping are uncovered within the Work area, notify the agencies or service utility companies having jurisdiction and take necessary measures to prevent interruption of service.
3. Where an unmarked utility is damaged other than through the negligence of Contractor, Contractor's responsibility is limited to providing immediate and proper notification of the damage to the utility owner so that repairs can be made. Contractor shall cooperate with the utility owner and provide access for repair work.

PART 2 - MATERIALS

2.01 D.G. PAVING:

- D.G.: Shall be color as approved by the Inspector to match existing, decomposed granite free of silt, clay, weed seed, and any other deleterious material, conforming with Section 400-2.3 Disintegrated Granite, per the Standard Specifications and as approved by the Parks Department Representative.
Stabilizer: Shall be "Stabilizer" as manufactured by Stabilizer Solutions, Phoenix, AZ PH: 1/800/336-2468; "Poly Pavement" as manufactured by Poly Pavement Co, Los Angeles, CA 90036 PH: 323/954-2240, or City approved equal.

2.02 DRAIN ROCK: Drain rock for all sumps and french drains shall be pervious backfill as specified in Standard Specifications, Section 300-3.5.2 Pervious Backfill.

2.03 FILL MATERIAL:

- Required Approval: All fill material must be approved by the Soils Engineer and the Parks Department Representative.
On-site Material: On-site excavated materials may be used for fill as approved by the Soils Engineer and the Parks Department Representative.

2.04 GRANULAR BEDDING MATERIAL: Where called for on the Plans, granular bedding material shall be crushed stone or pea gravel conforming to the following grading:

Table with 2 columns: Sieve Size, % Passing. Values: 3/4" (100), 1/2" (95), #4 (5)

2.05 IMPORT:

- Landscape Fills: All import soil used for fill in landscape areas shall be Class 'A' topsoil per Standard Specifications, Section 212-1.1 Top Soil, General.
Structural Fills: All import soil used solely for structural fill shall be non-expansive, predominantly granular material free from organic contaminants, and capable of attaining the required compacted densities.
Approved Samples: Samples of all import soil, as obtained by the City's Inspector at the borrow site, must be approved by the Parks Department Representative prior to start of import of soil to the Project site.

2.06 TRAIL FENCE: Trail fence shall be a heavy duty two rail white vinyl fence designed for agricultural uses, as manufactured by Kroy Building Products, Inc. (800/933-5769), Ultra Guard Fence (800/592-6220), or City approved equal.

PART 3 - EXECUTION

3.01 GENERAL:

- Work Sequence: All demolition, clearing and grubbing of objectionable materials must be completed to the satisfaction of the Parks Department Representative before starting any earthwork grading and excavation.
Survey: See Special Provisions Section 2-9.3 Survey Service regarding responsibility for provision of all survey services as necessary for horizontal and vertical control points, layouts, lines and levels, and staking of the Work.
Allowable Gradients: Trails shall be constructed in the field to comply with the following maximum and minimum gradients.
1) Cross Slope: Trail cross slope shall be between 1% minimum and 2% maximum.
2) Longitudinal Gradients:
a) Accessible Trails: Trails designated for ADA access shall not exceed a longitudinal slope of 5% (20:1) unless configured as an Accessible Ramp.
b) Non-Accessible Trails: Trails designated as non-accessible, must be so marked, and generally shall not exceed a longitudinal gradient of 10% (10:1).
c) Alternate Trail Designs: Where the natural terrain is so steep that provision of a trail at more than 20% gradient is required, to decrease grade, terrace steps may be used.
3) Accessible Ramp Systems: All ramps shall not exceed a maximum slope of 8.333% (12:1).
4) Trail Edge: Where adjacent to developed landscape areas, the trail D.G. shall be contained by a concrete mowcure on each edge of the trail tread.
5) Trail Fence and Markers: All trails along public streets shall be fenced and marked per Trails Standard Details.
6) Crossing Concrete: Where the trail is designated to cross concrete aprons and sidewalks, such aprons and sidewalks shall be constructed of concrete with rough broom or rake finish to prevent slipping.

3.02 ROUGH GRADING:

- Conformance with Plans: Rough grading of the site shall be completed in accordance with indicated contours, elevations, and limit lines shown on the Plans and shall allow for the depths of slabs, paving, sub-base, topsoil, and controlled fills.
Grading Tolerances:
1. Sub-grades to receive slabs and pavements shall be graded to a tolerance of plus or minus one-half (1/2) inch, and shall be compacted as specified below in Sub-section 3.04 CONTROLLED FILL, paragraph G.
2. Tolerance for rough grading in all other areas is 1/10th of a foot.
3. In all areas, appearance and positive drainage will be factors in the acceptability of grades.
Compacted Lifts: Graded material shall not be left in loose layers, but shall be stockpiled for use in controlled fill or compacted in thin layers as grading takes place in accordance with the requirements for controlled fill.
Scarification: Shall be performed on all areas indicated to receive paving to depths as indicated in the soils report.
Engineer's Approval: Contractor shall obtain the Soil Engineer's approval of all scarified surfaces prior to placement of fill.

3.03 CONTROLLED FILL:

- Landscape Fills: The topmost 12" of fill in all landscape areas shall be topsoil.
Rocks: Rocks larger than two (2) inches in diameter shall be removed from all fills to be compacted.
Lifts: Fill material shall be spread in uniform lifts of six (6) to eight (8) inches of un-compacted thickness.
Moisture Content: Prior to starting compaction, the fill material shall be brought to optimum moisture content by spraying with water if too dry, and aeration if too wet.

E. Mixing: Thoroughly mix each lift to assure uniform distribution of water content.

F. Allow for Shrinkage & Subsidence: Bring fills to suitable elevations above required grades to provide for effects of shrinkage and settlement.

- Relative Compaction Requirements:
1. D.G. Pavement Subgrades: For all areas designated to receive D.G. pavement and within a perimeter five (5) feet outside these areas, each lift shall be compacted to a minimum of 90% of maximum density as determined by ASTM D1557-78.
2. Planting Areas: Where fill is required in planting areas each lift shall be compacted to a minimum of 85% maximum density.
3. Mechanical Equipment: Perform all compaction by suitable mechanical equipment and methods approved by the Soils Engineer.

H. Contractor's Responsibility: During the grading operations, inspection and field tests will be carried on by the Soils Engineer. However, Contractor is responsible to ensure obtaining the required degree of compaction and the proper moisture content.

I. Over-excavation Due to Unsuitable Materials: Excessively wet material, material in any soft or spongy spots, and material in standing water shall be over-excavated to such depth as directed by the Soils Engineer and replaced with suitable material, properly compacted.

3.04 EXCAVATION: Contractor shall perform all necessary excavation work for trail fence footings and mowcurbs and shall perform any additional excavation work necessary to provide ample room for installation of concrete forms where required.

3.05 OPEN TRENCH OPERATIONS: Shall conform with Standard Specifications Section 306-1 Open Trench Operations, as modified by the following:

- General: Add the following to Standard Specifications Section 306-1.1.1 General:
"Where trench is close to existing pole mounted lights, catch basins, or other structures that are to remain, Contractor shall brace as necessary to prevent dislocation of such structures. In the area of any such structures, the trench backfill shall be compacted to 90% to the full depth of the structure."
Unsuitable Material: Add new subsection 306-1.1.7 as follows:
3.06-1.1.7 Unsuitable Material. The conditions and requirements for the determination and disposition of unsuitable material encountered during open trench operations shall be in accordance with Standard Specifications Section 300-2.2 Unsuitable Material.

C. Trench Backfill: Shall conform with Public Works Department Standard Drawing No. 453.

3.06 BACKFILLING:

- Material: Select site material shall be used for backfill of trenches and shall be free from large stones and clods. Material shall be as approved by the Soils Engineer.
Pre-Conditioning and Placement:
1. Layers of backfill shall be pre-conditioned by moistening with water, the amount to be controlled to insure optimum moisture conditions for the type of fill material used.
2. Backfill shall be deposited in layers of maximum six inch thickness.
3. Backfill shall be compacted by suitable means to a minimum relative compaction of 90%.
4. All trenches shall be backfilled in accordance with this Section, and may be tested at the discretion of the Engineer.

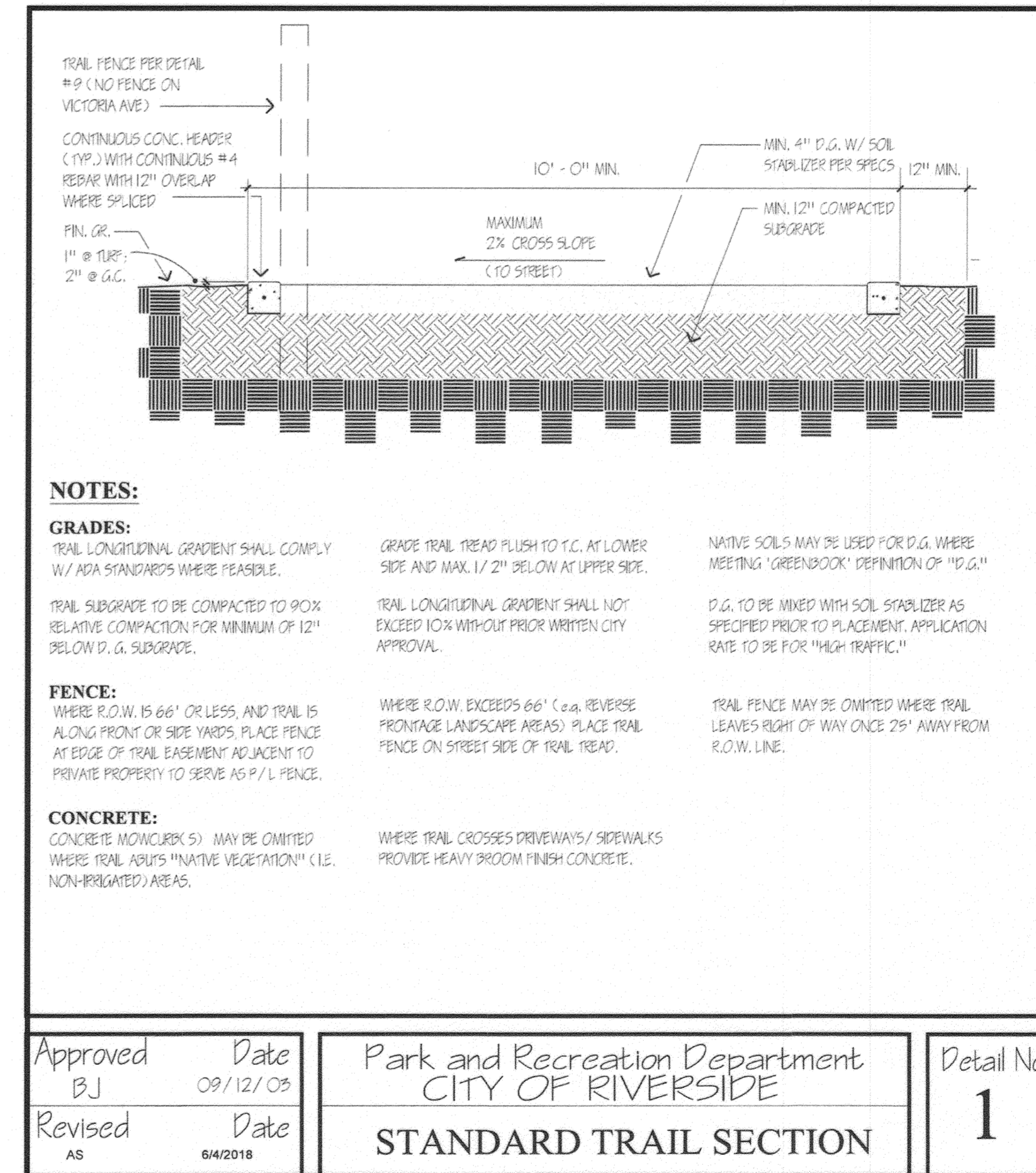
3.07 FINE GRADING: Fine grading, as specified under this Section, is a separate operation from finish grading as specified under Section 02480 Planting.

Upon completion of Fine Grading Work all areas shall slope to drain without water pockets or irregularities and shall conform to the intent of all Plans and Specifications after thorough settlement and compaction of the soil.

3.08 DECOMPOSED GRANITE: Stabilizer shall be mixed with decomposed granite in proportions as recommended by the manufacturer for "high traffic" usage.

3.09 DUST AND NOISE ABATEMENT: During the entire construction period, site areas shall be kept sprinkled (either with water or an approved dust palliative) as necessary to minimize dust in the air and annoyance to surrounding properties.

END OF SECTION



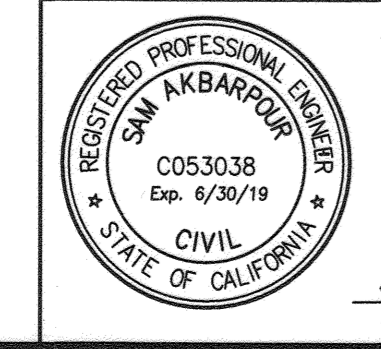
NOTES:
GRADES: Trail longitudinal gradient shall comply with ADA standards where feasible.
FENCE: Where R.O.W. is 66' or less, and trail is along front or side yards, place fence at edge of trail easement adjacent to private property to serve as 1/2 fence.
CONCRETE: Concrete mowcure(s) may be omitted where trail abuts "native vegetation" (i.e. non-paved) areas.

Approval table with columns for Approved/Revised, Date, and Department (Park and Recreation Department, CITY OF RIVERSIDE). Includes 'STANDARD TRAIL SECTION' and 'Detail No. 1'.

CITY OF RIVERSIDE, WATER DIVISION REVIEWED FOR CONFLICTS (Signature) DATE 4/29/19
CITY OF RIVERSIDE, ELECTRIC DIVISION REVIEWED FOR CONFLICTS (Signature) DATE 4/30/19

CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS. Includes approval signatures for Principal Engineer, Engineering Manager, Traffic Division, and Park and Rec. Includes date 2-28-19.

STREET IMPROVEMENT PLANS. PROJECT NO. PW17-0497. TRACT 36713. TRAIL GRADING AND CONSTRUCTION NOTES. SHEET 3 OF 6. HORIZ. SCALE: NONE. VERT. SCALE: NONE. FILE NO.



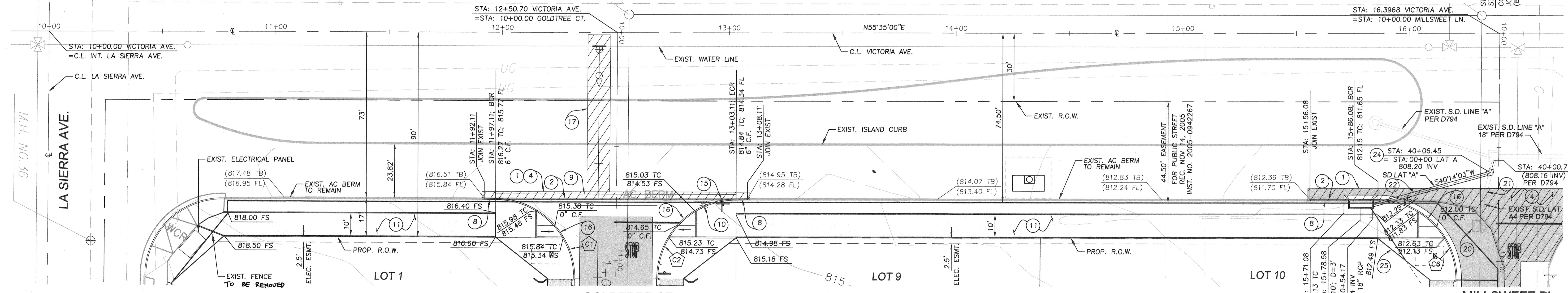
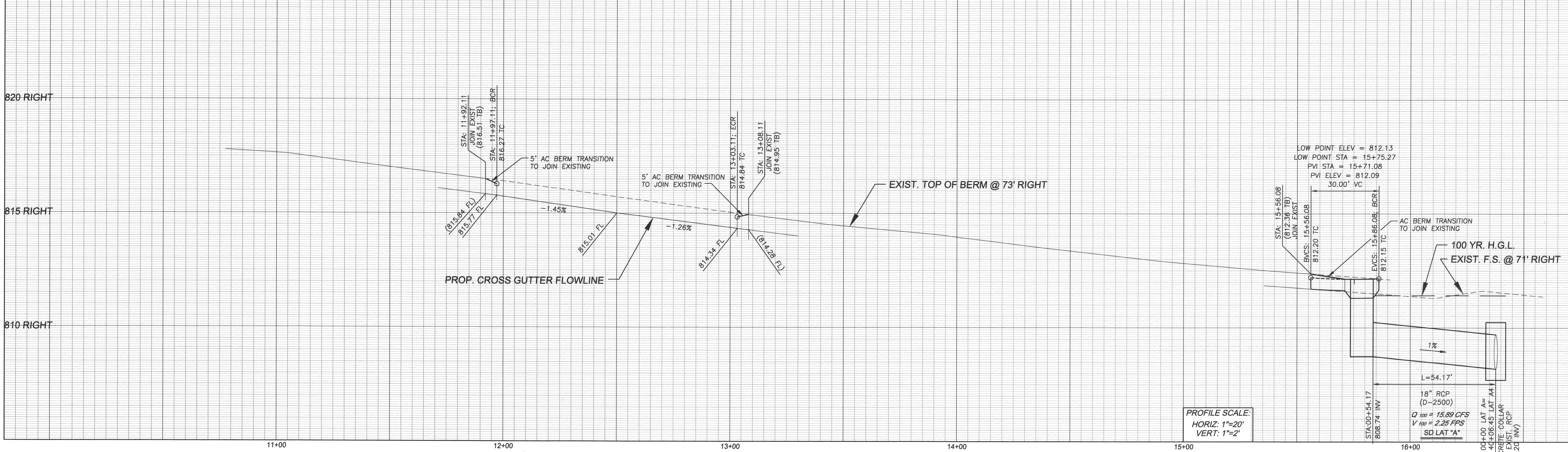
SAKE ENGINEERS, INC. ENGINEERING • SURVEYING • LAND DEVELOPMENT. 400 S. RAMONA AVE., STE. 202, CORONA, CALIFORNIA 92879. Includes contact info and R.C.E. No. 53038.

Table with columns for MARK, DATE, APPR, DESIGNED BY, DRAWN BY, CHECKED BY. Includes names SA and RL.

820 RIGHT

815 RIGHT

810 RIGHT



- CONSTRUCTION NOTES:**
- 1 - SAWCUT & REMOVE PORTION OF EXIST. PAVEMENT
  - 2 - SAWCUT & REMOVE PORTION OF EXIST. AC BERM
  - 4 - CONST. " " A.C. OVER " " A.B.
  - 5 - CONST. 6" CURB & GUTTER PER CITY OF RIVERSIDE STD. 200 (TYPE I)
  - 8 - CONST. AC BERM PER CITY OF RIVERSIDE STD 250 (TYPE I)
  - 9 - CONST. CROSS GUTTER PER CITY OF RIVERSIDE STD. 220 (W=6"; D=1")
  - 10 - RELOCATE EXIST. STREET LIGHT PER DEVELOPER/CONTRACTOR
  - 11 - CONST. 10' WIDE D.G. TRAIL PER DETAIL ON SHEET NO. 2 AND 3
  - 15 - INSTALL STREET NAME SIGN PER CITY OF RIVERSIDE STD. 662
  - 16 - CONSTRUCT PCC WHEELCHAIR RAMP PER DETAIL ON SHEET 2
  - 17 - CONST. TRENCH AND BACKFILL PER CITY RIVERSIDE STD. 453
  - 20 - REMOVE EXIST. INLET STRUCTURE
  - 21 - REMOVE PORTION OF EXIST. 18" RCP
  - 22 - CONST. 18" RCP CL-IV STORM DRAIN
  - 23 - CONST. TYPE I CATCH BASIN PER CITY OF RIVERSIDE STD. 400
  - 24 - CONST. CONCRETE COLLAR PER CITY OF RIVERSIDE STD. 424
  - 25 - CONST. 12" RCP

**GOLDTREE CT.**  
(SEE SHEET NO. 5)

# VICTORIA AVENUE

**CURVE TABLE**

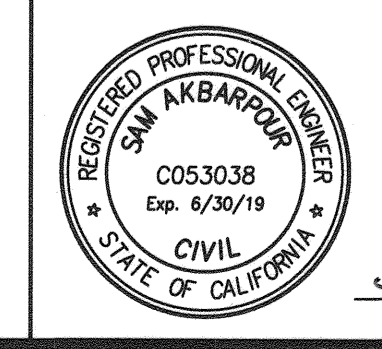
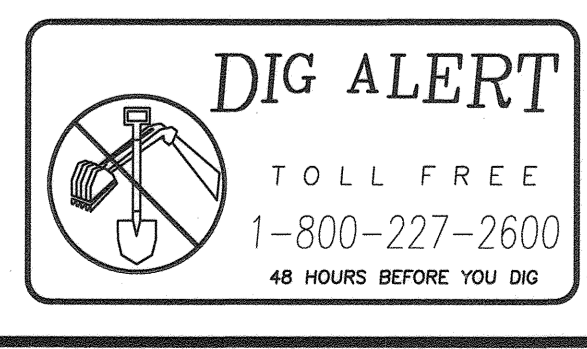
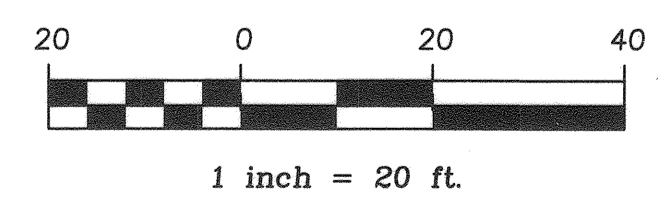
CURVE	DELTA	LENGTH	RADIUS	TANGENT
C1	90°18'50"	55.17	35.00	35.19
C2	89°41'10"	54.79	35.00	34.81
C3	15°0'0"	30.11	115.00	15.14
C6	90°19'3"	55.17	35.00	35.19

**NOTE:**  
TWO ROWS OF EXISTING ORANGE TREES ALONG VICTORIA AVENUE SHALL BE PRESERVED AND A THIRD ROW OF AGRICULTURAL TREES (AVOCADO) SHALL BE PLANTED BEHIND THE EXISTING ORANGE TREES TO PUBLIC WORKS STREET TREES SATISFACTION.

CITY OF RIVERSIDE BUSINESS TAX ACCOUNT #74172 EXP. 7/31/19

CITY OF RIVERSIDE, ELECTRIC DIVISION  
REVIEWED FOR CONFLICTS  
DATE 1/30/19

CITY OF RIVERSIDE, WATER DIVISION  
REVIEWED FOR CONFLICTS  
DATE 1/29/19



*Sam Akbarpour* 1-15-19  
R.C.E. No. DATE

**SAKE ENGINEERS, INC.**  
www.sakeengineers.com  
ENGINEERING • SURVEYING • LAND DEVELOPMENT  
400 S. RAMONA AVE., STE. 202  
CORONA, CALIFORNIA 92879  
(951) 279-4041 FAX: (951) 279-2830

DESIGNED BY SA DRAWN BY RL CHECKED BY SA

BENCHMARK:  
CITY OF RIVERSIDE BM# D3-A2; P.K. NAIL AND TAG AT NORTHERLY CORNER OF A CONCRETE SLAB AT THE SOUTHERLY CORNER OF LA SIERRA AVE. AND THE WESTERLY INTERSECTION OF DUFFERIN AVE.  
ELEVATION: 882.135' (1988 ELEVATION)

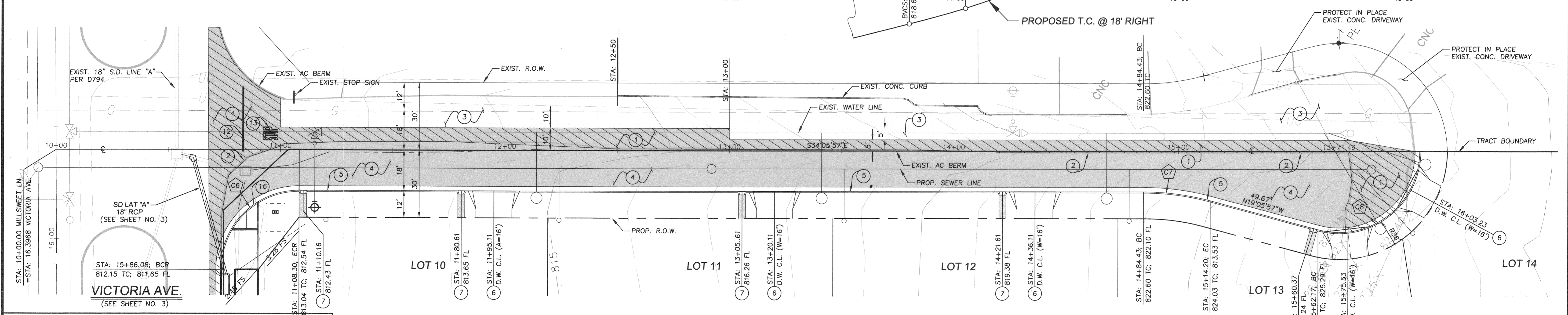
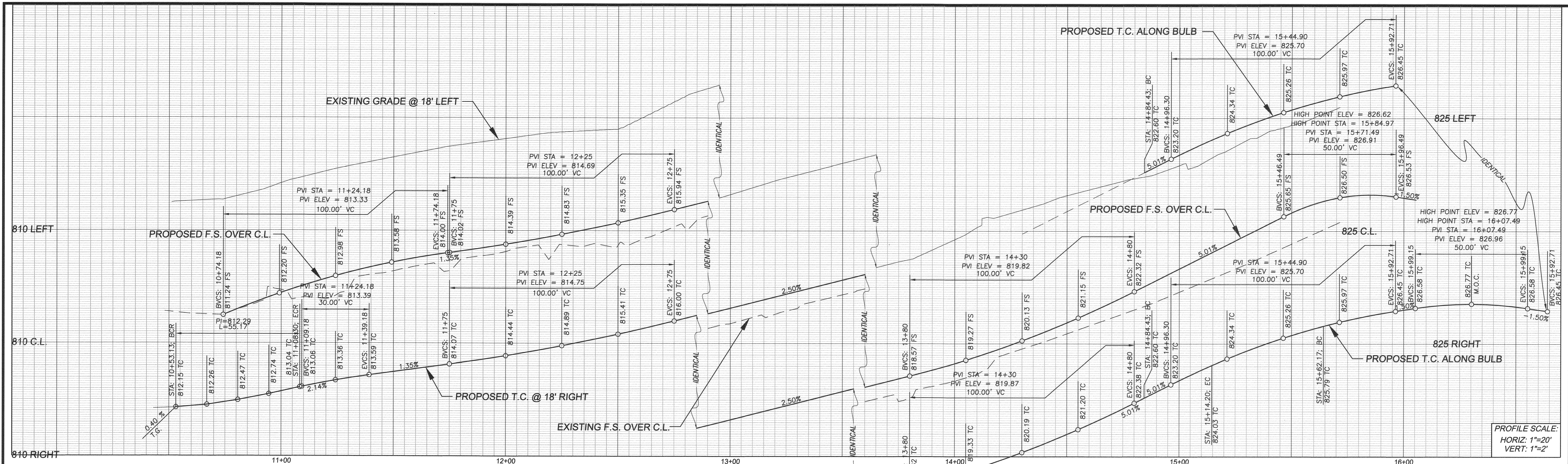
CITY OF RIVERSIDE, CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: [Signature] DATE: 2-28-19  
PRINCIPAL ENGINEER  
ENGINEERING MANAGER  
TRAFFIC DIVISION  
PARK AND RECREATION

STREET IMPROVEMENT PLANS  
**VICTORIA AVENUE**  
TRACT 36713  
STREET PLAN & PROFILE

PROJECT NO. PW17-0497  
R-4421  
SHEET 4 SHEET 6  
FILE NO.

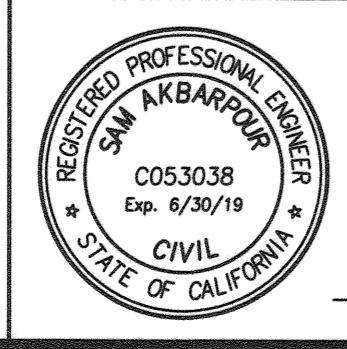
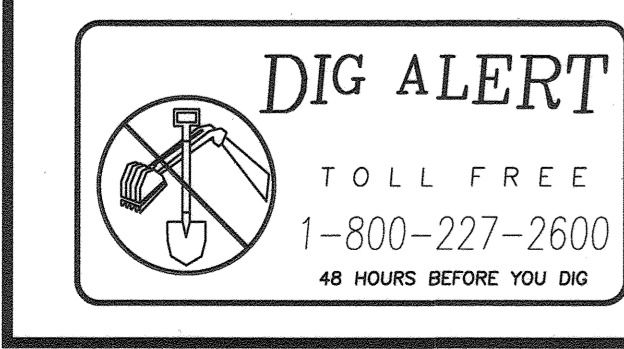
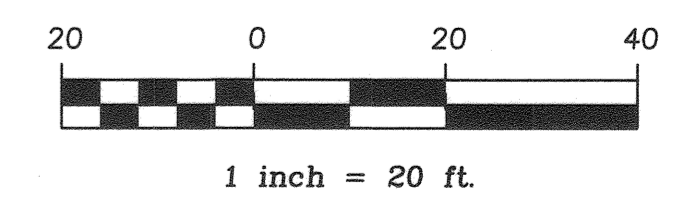
HORIZ. SCALE: 1"=20' VERT. SCALE: 1"=2"



- CONSTRUCTION NOTES:**
- 1 - SAWCUT & REMOVE PORTION OF EXIST. PAVEMENT
  - 2 - SAWCUT & REMOVE PORTION OF EXIST. AC BERM
  - 3 - GRIND EXIST. A.C. AND OVERLAY (0.15" MIN.) PER PLAN
  - 4 - CONST. 6" A.C. OVER 18" A.B.
  - 5 - CONST. 6" CURB & GUTTER PER CITY OF RIVERSIDE STD. 200 (TYPE I)
  - 6 - CONST. DRIVEWAY APPROACH PER CITY OF RIVERSIDE STD. 302 (PL I)
  - 7 - CONST. 3' WIDE OPENING PER DETAIL ON SHEET NO. 2
  - 12 - APPLY THERMOPLASTIC 12" WHITE LIMIT LINE PER CALTRANS 2010 STD. PLAN A24E
  - 13 - APPLY THERMOPLASTIC "STOP" PAVEMENT MARKING PER CALTRANS 2010 STD. PLAN A24D
  - 16 - CONSTRUCT PCC WHEELCHAIR RAMP PER DETAIL ON SHEET 2

# MILLSWEET PLACE

CURVE TABLE				
CURVE	DELTA	LENGTH	RADIUS	TANGENT
C6	90°19'3"	55.17	35.00	35.19
C7	15°0'0"	30.11	115.00	15.14
C8	105°0'0"	65.97	36.00	46.92



*S. Akbarpour* 1-15-19  
R.C.E. No. DATE

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400 S. RAMONA AVE., STE. 202  
CORONA, CALIFORNIA 92879  
(951) 279-4041 FAX: (951) 279-2830

MARK	APPR. DATE	DESIGNED BY SA	DRAWN BY RL	CHECKED BY SA
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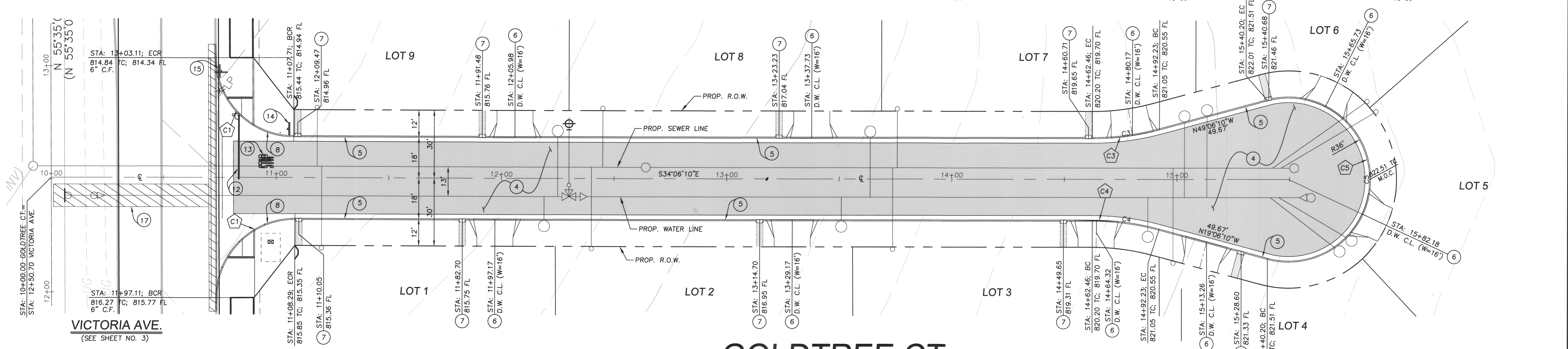
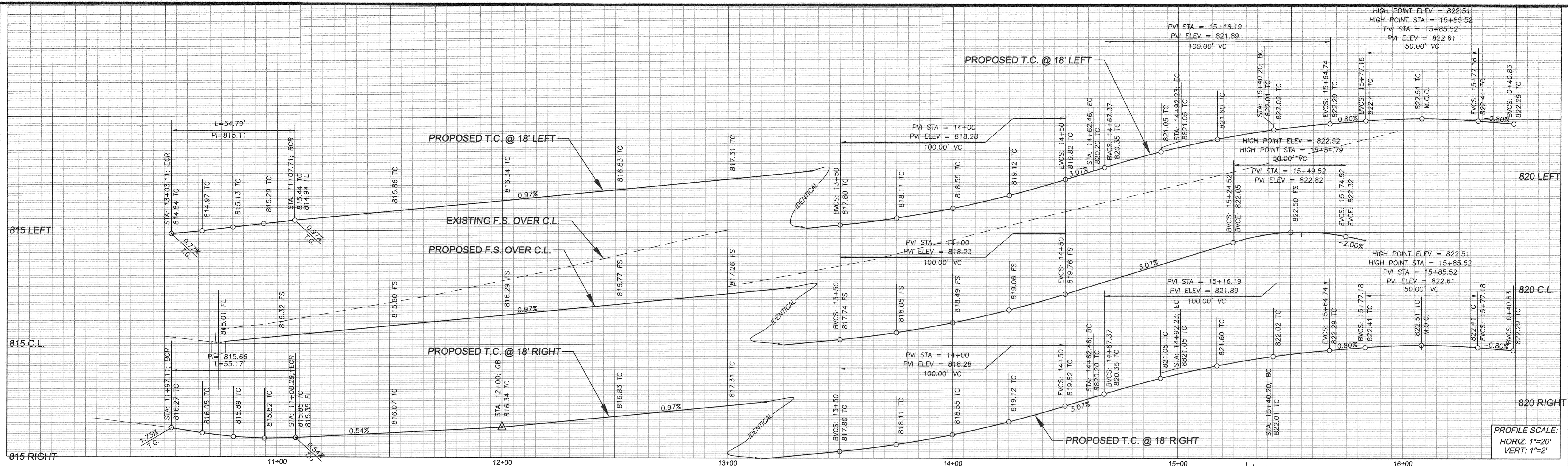
CITY OF RIVERSIDE BUSINESS TAX ACCOUNT #74172 EXP. 7/31/19

CITY OF RIVERSIDE, ELECTRIC DIVISION  
REVIEWED FOR CONFLICTS  
*[Signature]* DATE 1/30/19

CITY OF RIVERSIDE, WATER DIVISION  
REVIEWED FOR CONFLICTS  
*[Signature]* DATE 1/21/19

CITY OF RIVERSIDE, CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
APPROVED BY: *[Signature]* BY DATE: 2/28/19  
TRAFFIC DIVISION  
DATE 2-28-19

STREET IMPROVEMENT PLANS  
**MILLSWEET PLACE**  
TRACT 36713  
STREET PLAN & PROFILE  
PROJECT NO. PW17-0497  
R-4421  
SHEET 5 SHEET 6  
HORIZ. SCALE: 1"=20' VERT. SCALE: 1"=2"



- CONSTRUCTION NOTES:**
- 4 - CONST. 4" A.C. OVER 4" A.B.
  - 5 - CONST. 6" CURB & GUTTER PER CITY OF RIVERSIDE STD. 200 (TYPE I)
  - 6 - CONST. DRIVEWAY APPROACH PER CITY OF RIVERSIDE STD. 302 (PL I)
  - 7 - CONST. 3' WIDE OPENING PER DETAIL ON SHEET NO. 2
  - 8 - CONST. AC BERM PER CITY OF RIVERSIDE STD 250 (TYPE I)
  - 12 - APPLY THERMOPLASTIC 12" WHITE LIMIT LINE PER CALTRANS 2010 STD. PLAN A24E
  - 13 - APPLY THERMOPLASTIC "STOP" PAVEMENT MARKING PER CALTRANS 2010 STD. PLAN A24D
  - 14 - INSTALL 36" STOP SIGN R1-1 PER CA. MUTCD 2014 FIG. 3B-103 (CA)
  - 15 - INSTALL STREET NAME SIGN PER CITY OF RIVERSIDE STD. 662
  - 17 - CONST. TRENCH AND BACKFILL PER CITY RIVERSIDE STD. 453

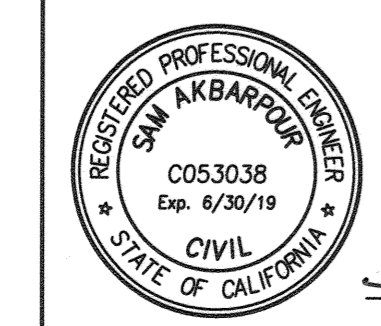
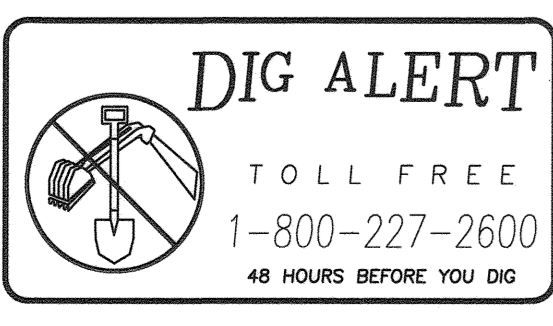
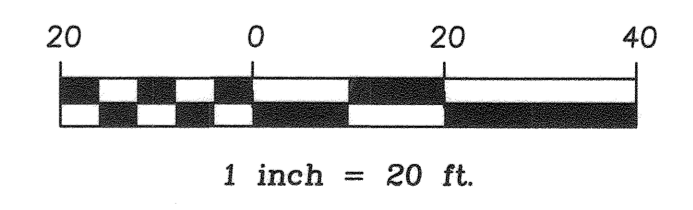
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C4	15°0'0"	30.11	115.00	15.14
C5	210°0'0"	131.95	36.00	134.35

CITY OF RIVERSIDE BUSINESS TAX ACCOUNT #74172 EXP. 7/31/19

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REVIEWED FOR CONFLICTS  
DATE 1/30/19

CITY OF RIVERSIDE, WATER DIVISION  
REVIEWED FOR CONFLICTS  
DATE 1/20/19



SAKE ENGINEERS, INC.  
1-15-19  
R.C.E. No. DATE

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MARK	APPR	DATE
DESIGNED BY SA	DRAWN BY RL	CHECKED BY SA

CITY OF RIVERSIDE, CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: [Signature] DATE: 2-28-19

BY DATE APPROVED BY: [Signature] DATE: 2-28-19

ENGINEERING MANAGER  
TRAFFIC DIVISION  
PARK AND RECREATION

STREET IMPROVEMENT PLANS  
**GOLDTREE CT.**  
TRACT 36713  
STREET PLAN & PROFILE

PROJECT NO. PW17-0497  
R-4421  
SHEET 6 SHEET 6  
FILE NO.

HORIZ. SCALE: 1"=20'  
VERT. SCALE: 1"=2"