STAFFORD LAKE BIKE PARK
TRAIL BRIDGE, HEADCUT AND GULLY STABILIZATION PROJECT

SURVEY NOTES
SURVEYING & DESIGN SERVICES PERFORMED BY PRUNUSKE CHATHAM INC.
APRIL 2016

DESIGN ENGINEERING:
LUCAS WALTON, P.E. - PROJECT ENGINEER
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CONSULTANT CONTACT LIST:
PROJECT LOCATION:
VINCENT W. DELGADO, P.E.
PRUNUSKE CHATHAM INC.
400G MORRIS ST
SEBASTOPOL, CA 95472
(707) 824-4600

DATE OF SURVEY:
APRIL 7, 2016

HORIZONTAL DATUM: NAD83 CALIFORNIA STATE PLANE (ZONE 3)
VERTICAL DATUM: PCI ASSUMED.

PROJECT LOCATION:
LAT: 38° 6'47.35"N   LONG: 122°39'14.19"W

SITE ADDRESS:
3549 Novato Blvd,
Novato, CA 94947

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ABUTMENT CONCRETE:
1. All phases of work pertaining to the concrete construction shall conform to the "Building Code Requirements for Reinforced Concrete" (ACI 318-11, latest edition) with modifications as noted in the drawings and specifications.
2. Reinforced concrete design is by the "Minimum Design Strength Method", ACI 318-11.
3. Schedule of structural concrete 20-day strengths and types:

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<th>Strength PSI</th>
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<td>Foundations,</td>
<td>4,000</td>
<td>Hard rock</td>
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4. Mixture proportions are furnished in the drawing. Concrete mix design shall be submitted to the engineer for approval with the following requirements:
   a. Compressive strength by age 28 days as specified above.
   b. Large aggregate—maximum size conforming to ACI C-33.
   c. Cement—ACI C-150, Type I or II Portland cement.
   d. Maximum slump 5-7 inches, maximum water cement ratio 0.50.
5. a. With the engineer’s approval exception for limited area and as approved by the engineer.
6. Placement of concrete shall conform to ACI standard 314 and project specifications.
7. All reinforcing bars, clear coverage of concrete and other reinforcing bars shall be as follows: Concrete cover, direct exposure except 3 inches thick, structural slabs = 3/4 inches clear, beams and columns = 2 inches clear. Reinforcement for column or-grades shall be the same as in the slab, 1 1/2.
8. All reinforcing bars, embed and other concrete inserts shall be well secured in position prior to placing concrete.
9. Order for concrete, and electrical conduits. If not shown on the drawings, if not needed on the drawings, if not needed on the drawings, if not needed on the drawings, if not needed on the drawings, if not needed on the drawings.
10. Concrete or pipe sizes (D.I.) shall not exceed 2/3 of soil thickness and shall be placed between the top and bottom reinforcing, unless specifically detailed otherwise. Specifications for conduits or pipes shall be avoided except where otherwise stated.
11. Omit all areas of concrete, where shown in accordance with ACI C-318, shall be at least the values given by the equations in sections 5.3.1 and 5.3.1 of ACI 318 for the largest earth congestion.
12. Concretes, when tested in accordance with ACI C-318, shall not exceed 0.0004% air by weight.