EXHIBIT "A"
DESCRIPTION OF SERVICES TO BE PERFORMED BY CONSULTANT

Consultant's entire Proposal is **not** made part of this Agreement.

- **Special Testing and Inspection**
  1. Compacted fill inspection and testing
  2. Reinforcing steel inspection and testing
  3. Structural steel inspection and testing
  4. Brick and block inspection and testing
  5. Grout compression inspection and testing
  6. Concrete/batch plant inspection and testing
  7. Masonry grout inspection and testing
  8. Footings and piers inspection and testing
  9. Slab on grade inspection and testing
  10. Epoxy bolts/proof load inspection and testing
  11. Field welding inspection and testing
  12. Shop steel fabrication/welding inspection and testing
  13. Rebar sample and tag inspection and testing
  14. Concrete compression tests
  15. Rebar tensile/bend inspection and testing
  16. Mortar compression inspection and testing
  17. Masonry preconstruction prisms inspection and testing
  18. Masonry production prisms inspection and testing
  19. Non shrink grout inspection and testing
  20. High strength bolts assembly inspection and testing
  21. Anchor bolts tension test inspection and testing
  22. Sample pick ups
  23. WPS review
  24. Mix design
  25. Final close out letter to DSA

A Division of the State Architect (DSA) Form 103, Statement of Structural Tests and Special Inspections, must be completed for each project and attached to **Exhibit “A.”** Form 103 indicates the type(s) of Inspection(s) and/or testing that will be performed as part of the scope of this Agreement.

Consultant shall provide the services set forth herein, as well as any incidental service necessary for the full and adequate completion of Project in strict accordance with all local, state and federal laws rules and regulations, including but not limited to, the State Building Code, California Code of Regulations, Title 24 and Instructions of Division of the State Architect ("DSA"), Statement of Structural Tests and Special Inspections, (form DSA 103 or more current version), and instructions included herein. Inspector shall comply with all the requirements of a DSA project inspector including, without limitation, all the requirements included and/or referenced in the following forms:

1. Form DSA IR 17-1 through 17-10, as applicable, Structural Tests and Special Inspection.


3. DSA 152 Manual.
Special inspectors and testing staff shall be prepared to attend project progress meetings and other specially called meetings as determined by the Project Inspector.

Consultant shall respond to the Project Inspector's scheduling and coordination for inspections and for sampling and testing services.

Consultant shall report all project-related activities to the Project Inspector and perform work under the supervision of the design professional in general responsible charge. Consultant shall prepare daily and/or individual occurrence reports of special inspections and testing results on previously approved forms and provide sufficient copies to the Project Inspector on the same day the inspections were performed for his/her distribution to the Construction Contractor and Architect. Daily special inspection reports must be submitted in a timely manner such that construction is not delayed and not to exceed 14 days from the date the special inspections were performed. The reports are to be submitted to DSA, architect, structural engineer, Project Inspector and District.

Consultant shall immediately submit reports of materials or work not conforming to the requirements of the DSA-approved construction documents to the DSA, architect, structural engineer, Project Inspector and District.

Consultant shall submit an interim verified report (form DSA 292 or more current form) to the DSA electronically and a copy to the Project Inspector for each of the applicable eight sections of form DSA 152 prior to the Project Inspector signing off that section of the project inspection card.

Consultant shall submit verified reports (form DSA 292 or more current form) to the DSA, Project Inspector, District and design profession in responsible charge if any of the following events occur: (1) within 14 days of the completion of the special inspection work, (2) work on the Project is suspended for a period of more than one month, (3) the services of the Consultant are terminated for any reason prior to completion of the Project, or (4) DSA requests a verified report.

- Geotechnical Engineer of Record and Soils Observation and Testing

The geotechnical portions of this project shall be performed under the direction of a Geotechnical Engineer, which shall be the Geotechnical Engineer of Record for the project. A technician with a nuclear gauge shall perform density and moisture testing in the field during grading, utility trench backfilling, and pavement operations utilizing ASTM D2922, D3017, and ASTM D1556 methods. Laboratory maximum density and optimum moisture determination shall be performed in accordance with ASTM D1557 or D698. Asphalt pavement placement and testing shall be performed in accordance with Caltrans methods.

Consultant shall provide:

1. Perform a site reconnaissance, reviewing the geotechnical engineering report for this project, reviewing the drawings, and preparing a transfer of geotechnical engineer of record responsibility letter;
2. Project management, consultation during construction, preparation of daily field, foundation excavation observation, and final grading reports;
3. Ensure soils conditions are in conformance to soils report
4. Foundation Inspection
5. Caisson, drilled piers or driven piles inspection
6. As-graded soils report
7. Observation and testing during site clearing and mass grading;
8. Observing the foundations excavations for structures;

Independent Consultant Agreement Testing and Inspection Services and Geotechnical 6101 Athletic Fields
9. Observation and testing during backfilling of utility trenches;
10. Observation and testing during backfilling around retaining walls;
11. Observation and testing during subgrade preparation and base rock placement in asphalt paved areas;
12. Observation and testing during asphalt concrete placement.
13. Perform the following Sampling and Testing of Materials and Testing of Work-in-Place as may be required by the DSA Testing and Inspection Listing, and as required by the District. The Testing shall be performed in accordance with ASTM test methods and California test methods as appropriate. All Laboratory testing shall be accomplished in a DSA certified laboratory:

a. Soil, Aggregate & Asphalt
b. Maximum Dry Density
c. Expansion Index (ASTM D4318)
d. R-Value
e. Sand Equivalent
f. Sieve Analysis (ASTM C136)
g. Hveem Stability
h. Asphalt Extration (ASTM 2172)
i. Hardness and Abrasion
j. Atterberg limits (ASTM 4318)
k. No. 200 Sieve Analysis (ASTM D422)
l. Specific Gravity C127/C128
m. Asphalt and Asphaltic Concrete Gradation (ASTM C136)
n. Asphalt and Asphaltic Concrete Specific Gravity (ASTM D1188)
o. Asphalt and Asphaltic Concrete Stability & Flow Marshall (ASTM D1559)
p. Asphalt and Asphaltic Concrete Abrasion (ASTM C131)
q. Asphalt and Asphaltic Concrete Unit Weight (ASTM D2726)
r. Asphalt Cores

14. Prepare and submit an interim Verified Report (form DSA 293 or more current form) to the DSA electronically and a copy to the Project Inspector for each of the applicable nine sections of form DSA 152 prior to the Project Inspector signing off that section of the project inspection card.

15. Prepare and submit Verified Reports (form DSA 293 or more current form) to the DSA and to the Project Inspector if any of the following events occur: (1) when construction is sufficiently complete in accordance with the DSA-approved construction documents so that the District can occupy or utilize the Project, (2) work on the Project is suspended for a period of more than one month, (3) the services of the Consultant are terminated for any reason prior to completion of the Project, or (4) DSA requests a Verified Report.

Consultant shall maintain such personal contact with the Project as is necessary to assure themselves of compliance, in every material respect, DSA-approved construction documents. Personal contact shall include visits to the project site by the Consultant or its qualified representative to observe construction. Observation and testing shall consist of visual observation of earthwork activities and taking field density and moisture tests for the purpose of ascertaining that the work is in substantial conformance with the contract documents, including the project plans and specifications. Such observation and testing shall not be relied upon by others as acceptance of the work nor shall it be construed to relieve the contractor in any way from his obligation and responsibilities under the construction contract. Specifically, but without limitations, observation and testing shall not require the technician and engineer to assume responsibilities for the means and methods of construction nor for safety on the jobsite.

Independent Consultant Agreement Testing and Inspection Services and Geotechnical 6101 Athletic Fields