ATTACHMENT D

Technical Specifications for Santa Rosa Plateau ADA Compliance
TECHNICAL SPECIFICATIONS

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SECTION 01000 - MOBILIZATION

PART 1 – GENERAL

1.01 RELATED DOCUMENTS:

The provisions of *The “Greenbook” Standard Specifications for Public Works Construction* shall apply except as modified herein.

1.02 SCOPE OF WORK:

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

- Preparatory operations including, but not limited to those efforts necessary for the movement of personnel, equipment, supplies, and incidentals to the Work site;
- All other operations which must be performed or costs incurred prior to beginning Work on the site;
- Provision and installation of Construction Fence per Technical Specification Section 02445 Temporary Chainlink Fence;
- Provision of temporary utilities;
- Secure all required permits;
- Obtain temporary construction water & electrical service
- Submittals per General Provisions Section 7.1 Submittals and Technical Specifications Section 01300 Submittals.

1.03 SUBMITTALS:

As a part of mobilization, all submittals as specified in various individual Sections of the Specifications shall be submitted for approval by the DISTRICT in the format specified in Technical Specifications Section 01300 Submittals and within the time-frames specified in General Provisions Section 7.1 Submittals. Submittals shall include all Materials Lists, Catalog Cuts, Shop Drawings, material and color samples, and Construction Schedule all as specified.

PART 2 - MATERIALS

2.01 TEMPORARY UTILITIES:

The permanent potable domestic water meter is already in place and available for use on the Project. Contractor shall furnish temporary water (if need exceeds safe rate of flow through existing water meter), and power complete with connecting piping, wiring, lamps, meters and similar equipment as required for the Work. Install, maintain, and remove temporary lines upon completion of the Work. All expenses in connection with temporary services and facilities shall be paid for by Contractor.
PART 3 – EXECUTION

3.01 GENERAL:

A. Payment: Payment for mobilization will be at the lump sum price bid for mobilization. Payment shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the Mobilization and De-mobilization Work as herein specified. The 10% retention shall apply to all Mobilization Work.

3.02 CLEAN-UP:

Contractor shall provide trash receptacles for collecting debris, shall remove debris from the job site at regular intervals not less than weekly and shall dispose of same in a legal manner.

END OF SECTION
SECTION 01300 - SUBMITTALS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

The provisions of the *Greenbook* Standard Specifications for Public Works Construction shall apply except as modified herein.

1.02 SCOPE OF WORK:

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

- Preparation of Submittals Schedule;
- Submittals Planning;
- Submittals Preparation, Distribution and Transmittal, to include all of the following:
  - Product Data (Catalog Cuts);
  - Materials Lists;
  - Samples;
  - Record Drawings;
  - Turn-over Items;
- Submittals Schedule updating and distribution;

1.03 RELATED WORK SPECIFIED ELSEWHERE:

<table>
<thead>
<tr>
<th>Construction Schedule</th>
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</thead>
<tbody>
<tr>
<td>Submittals and Requests for Information</td>
<td>General Provisions Article 7</td>
</tr>
</tbody>
</table>

1.04 SUBMITTAL PLANNING:

A. Processing Lead Time: Allow sufficient review time so that installation will not be delayed as a result of the time required to process submittals, including time for resubmittals.

1. Allow two (2) weeks for initial review. Allow additional time if processing must be delayed to permit coordination with subsequent submittals. The DISTRICT representative will promptly advise Contractor when a submittal being processed must be delayed for coordination.

2. If a resubmittal is necessary due to corrections or revisions, process the resubmittal in the same manner as the initial submittal.
3. Allow two (2) weeks for processing each resubmittal.

4. No extension of Contract Time will be authorized because of failure to transmit submittals to the DISTRICT representative sufficiently in advance of the Work to provide the two week processing time specified.

B. Coordination and Completeness:

1. Contractor shall coordinate preparation and processing of submittals with the performance of the related Work. Transmit each submittal allowing sufficient lead time to obtain appropriate reviews and approvals and to avoid delays in the related Work.

2. Coordinate the submittal date for each submittal with the lead time needed for fabrication, purchasing, testing, delivery, review of other related submittals, and related Work that require sequential processing/completion.

3. Coordinate the transmittal dates for each different type of submittal so processing will not be delayed. Ensure concurrent transmittal of submittals for related portions of the Work that need concurrent review to allow the PA to verify that a coordinated work effort is being provided. DISTRICT and PA each reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.

4. Contractor is responsible to verify completeness of all submittals. Incomplete submittals will be rejected.

1.05 SUBMITTALS SCHEDULE:

A. Concurrently with the development of Contractor’s Construction Schedule (per General Provisions Section 5.2 CONSTRUCTION SCHEDULE), prepare a complete “Submittals Schedule” for all submittals. Submit the Submittals Schedule together with the Construction Schedule at the Pre-Construction meeting.

1. Coordinate the Submittals Schedule with all subcontractors, with the schedule of values, with the Materials Lists and with the Construction Schedule.

2. Itemize items on the Submittals Schedule in the chronological sequence planned for submission; include all submittals required by the Contract Documents. Provide the following information:
   a) Scheduled date for the initial submittal for each item.
   b) Related Specification Section number.
   c) Submittal category (i.e. Product Data, Samples, Record Documents, Shop Drawing, etc.).
   d) Name of subcontractor or supplier as applicable.
   e) Description of the portion of the Work covered by the submittal.
   f) Record successive date(s) of any resubmittal(s).
g) Record date of DISTRICT approval of each submittal.

B. Submittals Schedule Updating: Update the Submittals Schedule after each meeting or activity where revisions have been recognized or made.

C. Distribution: Following receipt of review comments to the initial Submittals Schedule, on a monthly basis thereafter issue updated copies of the Submittals Schedule. Distribute copies to the PA, the DISTRICT representative, all subcontractors, and all other parties required to comply with scheduled submittal dates. Keep an up to date copy of the Submittals Schedule posted in the Construction Office. Parties may be deleted from the distribution upon completion of all portion(s) of the Work assigned to such parties and such parties are no longer involved in construction activities.

1.06 SUBMITTALS PREPARATION AND TRANSMITTAL:

A. Preparation: Place a permanent label or title block on each submittal for identification. Indicate the name of the entity that prepared each submittal on the label or title block.

1. Provide a space approximately 4" x 5" on the label or beside the title block on Shop Drawings to record Contractor's review and approval markings and the action taken.

2. Include the following information on the label for processing and recording action taken.
   a) Project name.
   b) Date.
   c) Name and address of PA.
   d) Name and address of Contractor.
   e) Name and address of subcontractor (as applicable).
   f) Name and address of supplier.
   g) Name of manufacturer.
   h) Number and title of related Specification Section.
   i) Drawing number and detail references, as appropriate.

B. Transmittal: Forward one electronic copy of each submittal appropriately for transmittal and handling. Transmit each submittal from Contractor to the DISTRICT representative using a transmittal form. Submittals received from sources other than Contractor may be returned without action. If a submittal is rejected, submit one electronic copy of the resubmittal.

1. When transmitting submittals, record relevant information and requests for data on the transmittal form. Include a Contractor's certification that information submitted complies with the Contract Document requirements as a part of each submittal. If the submittal is not in full accordance with the Contract Documents, record specific deviations from the Contract Document requirements, including minor variations and limitations, either on the transmittal form or on a separate attached sheet that is referenced on the form.

2. Transmittal Form: Use AIA Document G 810, or DISTRICT approved equal.
1.07 SUBMITTALS PROCESSING AND DISTRIBUTION:

A. **Processing:** Upon receipt of the submittals, the DISTRICT representative will retain one copy and forward an electronic copy to the PA who will retain one, and will return an electronic copy marked with action taken. Electronic copies will be forwarded to the PA who will return an electronic copy with action taken.

1. Except for submittals for record information or similar purposes, where action and return is required or requested the DISTRICT or PA will review each submittal, mark to indicate action taken, and return promptly.

2. Verification of the submittals compliance with characteristics specified in the Contract Documents is Contractor's responsibility.

3. **Action Stamp:** The DISTRICT or PA will stamp each submittal with a uniform, self-explanatory action stamp. The stamp will be appropriately marked, as follows, to indicate the action taken:
   a) "No Exception Taken": When submittals are marked "No Exception Taken," that part of the Work covered by the submittal may proceed.
   b) "Make Corrections Noted": When submittals are marked "Make Corrections Noted," that part of the Work covered by the submittal may proceed provided it complies with the notations and corrections marked on the submittal as well as the requirements of the Contract Documents.
   c) Returned for Resubmittal: Submittals may be returned for resubmittal for various reasons. When a submittal is marked either "Submit Specified Item," "Rejected," or "Revise and Resubmit," Contractor shall not proceed with any part of the Work covered by the submittal, including purchasing, fabrication, delivery, or any other associated activity. Instead, the submittal shall either be revised to comply with the Contract Documents and resubmitted, or a new submittal shall be prepared in accordance with the notations and submitted; resubmit without delay.
   d) Other Action: Where a submittal is primarily for information or record purposes, special processing or other activity, the submittal will be returned, marked "Action Not Required".
   e) Contractor shall repeat the submittal process as specified above for all submittals as necessary to obtain an action mark that will allow the Work to proceed.

B. **Distribution:** Upon receipt of marked copies of the submittals from the PA, the DISTRICT representative will forward four hard copies or one electronic copy of the marked submittal to the Prime Contractor for further distribution to the Subcontractor(s) and/or Supplier(s).

1. Do not proceed with the Work until an appropriately marked copy of the applicable submittal has been received from the DISTRICT and is in the installer's possession.

2. Do not permit use of unmarked copies of submittals in connection with construction.
3. Contractor shall not permit submittals marked "Rejected, "Submit Specified Item", or "Revise and Resubmit" to be used at the Project site, or elsewhere where Work is in progress.

1.08 PRODUCT DATA ("CATALOG CUTS"):

A. **Submit:*** Assemble Product Data submittals into a single submittal package for each construction trade or system (e.g. Plumbing, Electrical Lighting, Concrete, HVAC, etc.). Submittals shall consist of one electronic copy. Product Data submittals shall include all available printed information such as manufacturer's installation instructions, catalog cuts, standard color charts, roughing-in diagrams and templates, standard wiring diagrams and performance curves. Where Product Data must be specially prepared because standard printed data is not suitable for use, submit as "Shop Drawings."

1. Mark the copy to show applicable choices and options. Where printed Product Data includes information on several products, some of which are not required, mark copies to delete inapplicable information. Product Data submittals, as a minimum, shall include the following information:
   a) Manufacturer's printed recommendations.
   b) Compliance with recognized trade association standards.
   c) Compliance with recognized testing agency standards.
   d) Application of testing agency labels and seals.
   e) Notation of dimensions verified by field measurement.
   f) Notation of coordination requirements.

2. Do not submit Product Data until Contractor has confirmed the product's compliance with requirements of the Contract Documents.

1.09 SAMPLES:

A. **General:** Submit full-size, fully fabricated Samples cured and finished as specified, in the quantity specified in the respective Technical Specification section, and physically identical with the material or product proposed. Where quantities are not specified in the Technical Specification, submit a minimum of three samples, one will be returned marked with the action taken. Samples include partial sections of manufactured or fabricated components, cuts or containers of materials, color range sets, and swatches showing color, texture and pattern.

1. Mount, display, or package Samples in the manner specified to facilitate review of qualities indicated. Prepare Sample Submittals to match the PA’s Sample when available. Include the following:
   a) Generic description of the Sample.
   b) Sample source.
   c) Product name or name of manufacturer.
   d) Certification of compliance with the specified standards.
   e) Availability and delivery time.

2. Submit Samples for review of kind, color, pattern, and texture, for a final check of these characteristics with other elements, and for a comparison of these characteristics between...
the final submittal and the actual component as delivered and installed. Where variation in color, pattern, texture or other characteristics are inherent in the material or product represented, submit multiple units (not less than 3), that show approximate limits of the variations.

3. Preliminary submittals: Where Samples are for selection of color, pattern, texture or similar characteristics from a range of standard choices, submit a full set of choices for the material or product. Preliminary submittals will be reviewed and returned with the PA’s mark indicating selection and other action.

4. Maintain appropriately marked sets of Samples, as returned by the DISTRICT, at the Project site for quality comparisons throughout the course of construction.

B. Distribution of Samples: If additional sets of samples are needed for distribution to subcontractors, manufacturers, fabricators, suppliers, installers, and others as required for performance of the Work, Contractor shall submit samples in sufficient quantities for such distribution. Do not distribute unmarked copies of sample to others involved in the Work.

1.10 MATERIALS LISTS:

A. Submittal Requirements: Submitting a catalog number and manufacturer's name as a materials list stating that the items will be furnished to meet the Specifications will not be acceptable. Contractor shall submit a complete materials list for approval by the DISTRICT representative prior to performing any Work. Catalog data and full descriptive literature must be submitted whenever the use of items different than those specified is requested. Notarized certificate must be submitted by plastic pipe and fitting manufacturer indicating that material complies with the Project Specifications, unless material has been previously approved and used on other projects by the DISTRICT.

Material list shall be submitted in a format similar to the following:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Manufacturer</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Pressure Supply Line</td>
<td>Lasco</td>
<td>Sch. 40</td>
</tr>
<tr>
<td>2.</td>
<td>Lawn Head</td>
<td>Rainbird</td>
<td>2400</td>
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<tr>
<td>etc.</td>
<td>etc.</td>
<td>etc.</td>
<td>etc.</td>
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</table>

1.11 "RECORD" PRINTS:

A. Changes: Record accurately on one set of blue-line prints all changes in the Work constituting departures from the original Contract Plans. For example, changes in pressure and non-pressure irrigation line locations.

B. Legibility and Approval: The changes and dimensions shall be recorded in a legible and workmanlike manner to the satisfaction of the DISTRICT. Prior to final inspection of the Work, submit "record" prints to the DISTRICT representative for approval.
C. **Reference Points**: Dimension from two permanent points of reference (buildings, monuments, sidewalks, curbs, pavement, etc.). Data to be shown on "record" prints shall be recorded day-to-day as the project is being installed.

C. **As-built Items**: Show locations and depths of the following types of underground items:

1. Point(s) of connection for domestic water and similar underground utilities.
2. Routing of underground conduits, irrigation pressure lines and utility lines (dimension maximum 100 feet on center along routing).
3. All types of valves in various piping systems, including gate valves, quick coupler and remote control valves.
4. Related equipment (as may be directed).

D. **Maintain** record prints on site at all times.

**PART 2 - MATERIALS** (See ‘MATERIALS’ part of each specification section.)

**PART 3 - EXECUTION** (See ‘EXECUTION’ part of each specification section.)

**END OF SECTION**
SECTION 02110 - SITE CLEAR AND GRUB

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

The provisions of The “Greenbook” Standard Specifications for Public Works Construction shall apply except as modified herein.

1.02 SCOPE OF WORK:

Furnish all material, equipment and labor necessary to perform all clearing and grubbing work complete, including but not limited to the following:

- Protection of trees indicated on drawings to remain.
- Clearing and grubbing of all vegetation from site work areas.
- Removal and disposal of all deleterious materials.
- Furnishing, developing, applying and providing dust control watering equipment as required for the project.

1.03 RELATED WORK SPECIFIED ELSEWHERE:

1.04 RESPONSIBILITY AND COORDINATION:

Contractor shall secure and maintain all required permits and licenses, and pay all fees necessary to legally complete the work of this section.

Contractor shall notify utility companies for all utilities to be cut off, modified or relocated, and shall maintain and protect all active utilities.

Contractor shall coordinate all work with the DISTRICT in an effort to avoid any conflicts with the parks maintenance schedules.

1.05 PROTECTION AND SAFETY:

Contractor shall provide signs in necessary places to exclude persons, except those connected with the work, from entering the working area. Contractor is responsible for preventing unauthorized persons from entering working area.

Protect the project site and adjacent properties from dirty water, mud and water accumulated due to Contractor's operations, rainfall runoff or water that enters the project site from any other sources.

PART 2 - MATERIALS - Not applicable.
PART 3 - EXECUTION

3.01 GENERAL REMOVAL WORK:

Removal work shall be carefully done to avoid damage to all existing facilities to remain.

3.02 SITE CLEARANCE AND DISPOSAL:

Clear the sites to be improved of grass, shrubs, weed growth, rubbish and debris, etc., that are to be removed for construction of the improvements shown on the construction plans. Roots three inches in diameter and larger, rocks and broken masonry larger than 1 inch in the greatest dimension, shall be removed to a minimum depth of 12” below finished grade.

All deleterious materials shall be disposed of off the site in a legal manner by the Contractor, who shall make all necessary arrangements and pay all related costs.

Miscellaneous existing underground facilities, drainage devices, secondary water lines, cables, abandoned oil and water lines, leaching fields, irrigation pipes, wiring, etc, located 12 inches or more below proposed finish grade may be abandoned in place or removed as necessary for proper completion of the work. All miscellaneous active lines that are uncovered during the grading operations shall be protected.

3.03 UTILITIES:

Inactive or abandoned utilities shall be disconnected, removed, and plugged or capped subject to the local governing ordinances.

Should the Contractor encounter any existing underground utilities not shown on the drawings, he shall at once notify the PA who will determine further procedure.

3.04 DEBRIS BURNING:

Burning of debris will not be permitted.

3.05 DUST CONTROL:

Dust shall be kept to a minimum during site clearing operations by means of wetting the site or other approved method. Wash down all existing sidewalks and roadways on and off the site after all operations are complete.

END OF SECTION
SECTION 02210 – SITE GRADING

PART 1 – GENERAL

1.01 RELATED DOCUMENTS:

The provisions of The “Greenbook” Standard Specifications for Public Works Construction shall apply except as modified herein.

1.02 SCOPE OF WORK:

Furnish all material, equipment and labor as necessary to perform all earthwork complete, including, but not limited to, the following:

Rough grading as shown on the plans, including cut, fill, backfill and backfill compaction
Removal and legal off-site disposal of deleterious materials, including concrete and asphalt debris, organic material
Subgrade preparation for footings, walls, walks, slabs and other facilities
Finish grading of the site
Excavation and backfill for all footings, structures, etc., including overexcavation of artificial fill where required
Soil compaction as required
Soil testing as required
Protective measures
Dust and noise abatement

1.03 RELATED WORK SPECIFIED ELSEWHERE:

Site Clear and Grub: Section 02110
Excavation and backfill for any mechanical, plumbing, irrigation, drainage or electrical work - appropriate sections

1.04 QUALITY ASSURANCE:

A. All work shall comply with the requirements of the following:

(1) The Grading Code of the County of Riverside

(2) The Soils Engineering Investigation Report for the site prepared by Soils Engineer (see Appendix).
B. Tests and Inspections:

(1) All work in this section shall be subject to the observation and testing as required by the Soils Engineer. The Soils Engineer shall submit a compaction report to the DISTRICT, certifying the Contractor's compliance with the plans, specifications, soils reports and County grading ordinance in placing all fills and backfills. The Soils Engineer shall conduct all specified tests to insure compliance. Soils Engineer shall also test, identify and make recommendations on borrow site fill materials as specified in this section.

(2) Number and location of soils tests to be at the discretion of the Soils Engineer to assure uniformity, but 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 DISTRICT.

(3) The costs of services of the Soils Engineer, specified field density and maximum density tests, compaction reports and certificates of compliance, shall be borne by the DISTRICT. Additional tests and recompaclions made necessary by inadequate compaction, inadequate materials provided by contractor, and inaccurate excavations shall be paid for by the Contractor at no additional cost to the DISTRICT.

1.05 GRADING OPERATIONS:

No export is contemplated, other than deleterious materials. If during grading operations an excess or deficiency of earth becomes apparent, the Contractor shall inform DISTRICT immediately with a proposed solution for review and discussion.

1.06 WATER:

Contractor shall make arrangements with the DISTRICT to obtain construction water.

1.07 JOB CONDITIONS:

A. Protection of Existing Items:

(1) The 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. The adequacy of and responsibility for this shall be the Contractor's completely.

(2) All bench marks, monuments and other reference points shall remain undisturbed unless specifically directed otherwise by the Inspector.

B. Protection of Public:

The Contractor shall provide such barricades, temporary fences, gates, lights, warning signs,
guards, and other measures as may be necessary to assure safety and to deter trespassers. These provisions shall be maintained during the entire duration of the work. These temporary facilities shall be constructed, painted, and maintained in strict conformance with the requirements of applicable codes and other governing authorities.

C.  Coordination with Others:

   (1)  Contractor shall give written notice to the Owner, utility agencies, and other legal authorities prior to starting work.

   (2)  Contractor shall coordinate his operations with other trades, utility firms, 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.

D.  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 Inspector. Coordinate all such work with applicable mechanical or electrical trade having responsibility. Remove all abandoned utility lines, pipes, or conduits, to a point outside new construction lines.

   (2)  Where unmarked utility lines or other underground obstructions or piping are uncovered within the work area, notify the DISTRICT or the agencies or service utility companies having jurisdiction and take necessary measures to prevent interruption of service. Should such lines or services be damaged, broken, or interrupted through the Contractor's own negligence, those services shall be repaired immediately and restored by him at his own expense.

PART 2 - MATERIALS

2.01  DRAIN ROCK:

Drain rock for all sumps and french drains shall be porous backfill as specified in Standard Specifications, Section 300-3.5.1.

2.02  IMPORT:

A.  All import soil used for fill in landscape areas shall be Class `A' topsoil per Standard Specifications, Section 212.

B.  All import soil used for structural fill shall be nonexpansive, predominantly granular material
free from organic contaminants, and capable of attaining the required compacted densities.

C. All import soil must be approved at the borrow site by the Soils Engineer.

2.03 FILL MATERIAL:

A. All fill material must be approved by the Soils Engineer.

B. On-site excavated materials may be used as approved by the Soils Engineer. Landscape fill shall be Class ‘A’ topsoil.

C. Rocks larger than 3 inches in diameter shall be removed from all fills to be compacted.

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 gradient:

<table>
<thead>
<tr>
<th>Sieve Size</th>
<th>Passing</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4&quot;</td>
<td>100</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>95</td>
</tr>
<tr>
<td>4&quot;</td>
<td>5</td>
</tr>
</tbody>
</table>

2.05 AGGREGATE BASE:

Crushed aggregate base shall consist entirely of crushed rock and rock dust conforming to the requirements of Section 200-2.2 of the Standard Specification and the Soils Investigation Report, maximum size aggregate shall be 3/4 inch.

2.06 DRAIN PIPE:

Unless otherwise indicated in plans, Drain pipes shall be PVC schedule 80 for 4" lines, SDR 35 pipe for 6" lines, corrugated metal pipe for 15" lines, as specified in the "Standard Specifications" Section 207-11 and reinforced concrete pipe, 2000-D as specified in the "Standard Specifications" Section 207-2, for 18" pipe.