



ROBERT A. BOTHMAN, INC.

General Engineering and Building Contractors

CA License 440332 NV License 0027271 AZ License 150057 HI License 26294

650 Quinn Avenue • San Jose, California 95112-2604

408 • 279 • 2277 Facsimile 408 • 279 • 2286

www.bothman.com

Request for Proposal

Description	Item Price	Total Price
1. Driveway and Lower Sweeney Ridge Stabilization 1a Driveway 1b Manage hillside water 1c Full sub-floor framing Retaining Wall Other Project General Conditions	\$ 8,727.00 <u>\$ 8,065.00</u> <u>\$19,223.00</u> <u>\$ 7,505.00</u>	1) <u>\$43,520.00</u>
2. Re-direct Water Flow and Seepage South of Site Buildings 2a Mitigate S/W Area 2b Channel Water 2c Sub-grade improvements Other Project General Conditions	\$ 8,173.00 <u>\$43,867.00</u> <u>\$18,121.00</u> <u>\$14,564.00</u>	2) <u>\$84,725.00</u>
3. Pave Behind Building C 3a Area paving 3b Connect All Drainage Lines, Basins and Curbs Other Project General Conditions	\$23,498.00 <u>\$ 9,957.00</u> <u>\$ 3,346.00</u>	3) <u>\$36,801.00</u>
4. Divert Roof Runoff 4a Divert Roof Run off 4b Channel Water 4c Tie in All Lines 4d Ground Cover (if applicable) Other Project General Conditions	\$27,075.00 <u>\$16,267.00</u> <u>\$61,685.00</u> <u>\$ 7,310.00</u> <u>\$13,205.00</u>	4) <u>\$125,542.00</u>
5. Stabilize Ground Displacement on N/E Hillside 5a Remedy Soil Disturbance 5b Ground Cover (if applicable). 5c Hillside below building A Other Project General Conditions	\$ 5,311.00 <u>\$12,439.00</u> <u>\$58,610.00</u> <u>\$ 5,954.00</u>	5) <u>\$82,314.00</u>
6. Mitigate Water and Debris Running into Parking Lot 4 6a Prevent Parking Lot 4 Ponding 6b Tie into Existing Drain 6c Clean Out Drain Other Project General Conditions	\$18,236.00 <u>\$ 394.00</u> <u>\$ 3,322.00</u> <u>\$4,396.00</u>	6) <u>\$26,375.00</u>
TOTAL		<u>\$399,277.00</u>
7. <u>Alternate Pricing</u> 7a Minimize Rain Water from Entering FMC work spaces.	<u>\$70,172.00</u>	7) <u>\$70,172.00</u>

ROBERT A. BOTHMAN, INC.

General Engineering and Building Contractors

CA License 440332

NV License 0027271

AZ License 150057

HI License 26294

SKYLINE COLLEGE FACILITIES MAINTENANCE CENTER EROSION CONTROL AND SLOPE STABILIZATION Bid # 86620

April 30, 2010

Addendum #1 Dated April 9, 2010 Acknowledged

Narrative Summary of Proposed Costs and Assumptions / Exclusions

Work Item #1 – Driveway and Lower Sweeney Ridge Stabilization

1a Driveway:

- Install vehicular reinforced concrete driveway from parking lot to chain link gate.

1b Manage hillside water:

- Install concrete curb & gutter with the curb portion extending 24" into the subgrade to provide a dual purpose of retaining soil and water barrier.

1c ~~Full sub-floor framing~~ Retaining Wall Slope Stabilization:

- Install 24" tall wood retaining wall along slope behind storage containers up to chain link fence gate.
- Add 4" perforated wall drain with gravel behind wall with cleanouts at 50' O.C.
- Add catch basin at end of concrete driveway and curb & gutter at fence.
- Install drain line from wood wall to proposed catch basin and down the slope to connect to existing area drain near the existing concrete material storage bins.
- Install Jute Mesh netting within disturbed soil area above proposed wood retaining wall.

Other: Each other item includes costs for general conditions, mobilization, supervision, and project management. Costs also include basic schematic design to layout work.

Work Item #2 – Re-direct Water Flow and Seepage South of Site Buildings

2a Mitigate S/W Area

- Regrade area to remove gullies and Recompact slope area. See Items #2b & #2c for additional improvements for further slope stabilization.

2b Channel Water

- Install curb and gutter along fence line and valley gutter parallel to slope at the top of slope limit of work to capture surface water flowing from slope to prevent further erosion outside of fence line.
- Install 12" storm drain system from valley gutter at top of slope along fence line to level triangular surface area behind Building C. Include catch basins to capture surface water in level area. Connect system to existing catch basin within asphalt area near existing material storage bins.

2c Sub-grade improvements

- After improvements from #2a and #2b, install jute mesh netting over slope area and re-hydroseed area with straw fiber rolls to reduce water gullies.
- Currently excludes work outside of fence line per scope discussions. Area can be reviewed to determine extent of work required. Mitigation items included above will greatly reduce further erosion outside of the fence line slope.

Work Item #3 – Pave Behind Building C

3a Area paving

- Install 4" reinforced concrete paving on existing base materials. Fine grade and compact existing surface to provide proper compaction and slopes to new catch basins.
- Excludes relocating District equipment within new pavement areas.

3b Connect All Drainage Lines, Basins and Curbs

- Extend storm drain from Item #2b to SE corner of Building B and installing additional catch basins within new pavement areas.

Work Item #4 – Divert Roof Runoff

4a Divert Roof Run off

- Install curbwall with piers at top of slope from the SE corner of Building B to the NE corner of Building A. See item #4c for roof drain rainwater leader connections and new storm drain system.

4b Channel Water

- Install a valley gutter along edge of the curbwall to prevent water runoff on the face of the slopes. See item #4c for roof drain rainwater leader connections and new storm drain system.

4c Tie in All Lines

- Install main drain line to continue drainage system from Items #2b and #3b. System could possibly daylight into existing natural ravine. Install small catch basins within valley gutter on top of curbwall to capture surface runoff. At east side of Building B and north side of Building A connect roof drains to underground drainage system. Includes sawcutting and removal of existing concrete, extend solid roof drain pipe from proposed storm drain system, and make solid connection to existing outlets of roof drains. Dowel and patch concrete at trench locations. At Building B connect roof drain system to proposed main drain line. At Building A connect roof drain system including stoop drain at retaining wall at double door to nearby existing drain inlets at the edge of Richard's Road.

4d Ground Cover (if applicable)

- Fine grade area to provide positive slope to new inlets and concrete swale at top of slope behind Building B. Add jute mesh netting on disturbed slope area. Provide non-irrigated native grasses and wildflower seeding at top of slope and disturbed slope areas. Install straw fiber rolls where needed to reduce water gullies.

Work Item #5 – Stabilize Ground Displacement on N/E Hillside

5a Remedy Soil Disturbance

- Install curbwall with piers at top of slope from the NE corner of Building A to approximately 30 feet west along Building A. See item #4c for roof drain rainwater leader connections and new storm drain system.

5b Ground Cover (if applicable).

- Fine grade area to provide positive slope to new inlets and concrete swale at top of slope behind Building B. Add jute mesh netting on disturbed slope area. Provide non-irrigated native grasses and wildflower seeding at top of slope and disturbed slope areas. Install straw fiber rolls where needed to reduce water gullies.

5c Hillside below building A

- Install approximately 6,600 SF rip rap slope protection. Excavate slope approximately one foot deep with a key way at bottom. Install rip rap boulders and spread excavated soil over rip rap slope. Included with Item #5c is seeding with non-irrigated native grasses and wildflower mix.

Work Item #6 – Mitigate Water and Debris Running into Parking Lot 4

6a Prevent Parking Lot 4 Ponding

- Install one new catch basin in median area between Richard's Road and Parking Lot 4 and one new catch basin adjacent to asphalt curb within Parking Lot 4. Extend storm drain pipe across parking lot. Provide asphalt trench patch within parking lot area.

6b Tie into Existing Drain

- Connect proposed parking lot drainage to existing drain inlet within parking lot.

6c Clean Out Drain

- Demolish existing catch basin and install new structure with trash racks. Clean-up debris within the surrounding area.

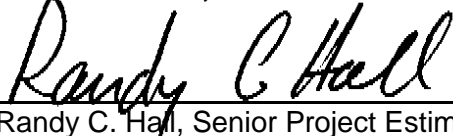
Work Item #7 – Alternate Pricing

7a Minimize Rain Water from Entering FMC work spaces.

- Install vehicular rated trench drain in front of existing bay roll-up doors. Sawcut and remove approximately two feet wide concrete. Grind existing concrete along edges to redirect slope towards trench drain. Pour back concrete and create a slight swale to capture surface water runoff. Connect trench drains to nearest existing catch basins.

Submitted by:

Robert A. Bothman, Inc.

By: 
Randy C. Hall, Senior Project Estimator

ROBERT A. BOTHMAN, INC.

General Engineering and Building Contractors

CA License 440332 NV License 0027271 AZ License 150057 HI License 26294

Pre-Design Phase

Estimated Duration: One Week

Task 1-1: Project Kick-off Meeting

Robert A. Bothman, Inc (RAB) will meet with District staff and representatives in order to establish lines of communication, review and define the scope of services, budget and project schedule, establish the project goals, objectives, and deliverables, and key agency and consultant contacts.

Deliverables:

Meeting notes

Preliminary project schedule

Contacts list of project personnel and roles

Task 1-2: Review of Previously Developed Material

RAB will review the materials previous developed by the City and its consultants, including programming guidelines, conceptual and schematic design drawings, budgets and cost estimates, hazardous materials report, geotechnical analyses and other relevant materials. We will also visit the City's facilities to develop a deeper understanding of the project and the opportunities of the site.

Deliverables:

Memo regarding the completeness and utility of previously developed materials

Task 1-3: Project Management Plan & Schedule

Based on the information gathered in Task 1-1 and 1-2, we will prepare a project management plan and schedule from space needs assessment through completion of construction. The development of comprehensive work plan and the maintenance of a close, smooth and uninterrupted working relationship between the District, users, planners, engineers, specialty sub-consultants and regulatory agencies will depend upon a strong project management plan.

DEFINE: Tasks, goals, crucial decisions, review approvals and time schedules.

ASSIGN: Responsibilities to each team member including the subconsultants for the completion of tasks in a timely and complete manner. Tasks may also be assigned to District staff, such as establishing milestones for providing critical decisions regarding operational, programmatic and performance requirements and preferences.

ESTABLISH: Decision making and documentation procedures for all team members.

Schedules for the outset and completion of tasks will be developed in a critical path

with client approval dates to ensure effective and timely progress of the work.

Deliverables:

Refined project schedule

Statement of the goals and objectives for the project

Team organizational chart indicating roles and responsibilities

Task 1-4: Verify Program Requirements

Based on interviews, current standards and specific program requirements, we will verify the program requirements as depicted in the design documents.

Design Phase

Estimated Duration: One Week

Task 2-1: Schematic Design

Based on the program needs assessment, the design team will prepare a series of options and alternatives for the review and approval of the District. Design team will then prepare schematic design documents consisting of drawings, outline specifications, sketches and other documents indicating the scale and relationships of the project components.

Deliverables:

Conceptual options and alternative drawings

Schematic design drawings

Outline specifications

Schematic design estimate of probable construction cost

Updated project schedule

Task 2-2: Meet with the District

Prepare "Pre-Design" report of the work described above and make a presentation to the District representatives if required.

Deliverables:

Meeting notes

Cost Development Phase

Estimated Duration: Two Weeks

RAB recognizes that construction requires a team effort between the client, contractor and architect. If additional changes or scope changes are requested this process will confirm revisions to the costs.

Task 4-1: Overall Estimate

The RAB Team will develop an overall estimate. This will be based on verified quantity surveys, will incorporate labor and material costs, self-performed work pricing and integration of subcontractor bids for all trade work and all general conditions.

Task 4-2: Subcontractor Selection

Selection of subcontractors will be made based on several checks and balances to ensure competency.

Task 4-3: Proposal developed and presented to the District.

The presentation will include:

Price proposal

Final proposed schedule - drawn up and evaluated throughout above tasks

Construction Phase

Estimated Duration: 15 weeks

RAB has completed hundreds of successful projects for public agencies and private clients. Furthermore, our building capability with regard to sports and recreation facilities allows us to offer a true value-based, one-stop solution to our clients. This assures you that your project will be completed on time, within budget and additionally, that the process will be smooth and enjoyable.

Our skill and expertise covers all facets of the new theories and practices of state-of-the art construction, as well as our extensive knowledge and engineering capabilities in site grading, precision leveling, modern drainage materials, and on-demand irrigation systems.

Our engineering knowledge and capability lend themselves well to the necessary requirements for grading, drainage, quality control and installation of the proposed improvements.

Skyline FMC Erosion Control - Preliminary Bid Schedule

ID	Task Name	Duration	Start	Finish	June					July				August				September				October		
					5/16	5/23	5/30	6/6	6/13	6/20	6/27	7/4	7/11	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26
1	PROJECT DURATION	92 days	Tue 6/1/10	Wed 10/6/10																				
2	Notice to Proceed	0 days	Tue 6/1/10	Tue 6/1/10																				
3	SCHEMATIC DESIGN	12 days	Tue 6/1/10	Wed 6/16/10																				
4	Notice to Proceed	1 day	Tue 6/1/10	Tue 6/1/10																				
5	Design Preparation	5 days	Wed 6/2/10	Tue 6/8/10																				
6	Schematic Design	5 days	Wed 6/9/10	Tue 6/15/10																				
7	Design Presentation	1 day	Wed 6/16/10	Wed 6/16/10																				
8	CONSTRUCTION	80 days	Thu 6/17/10	Wed 10/6/10																				
9	Work Item #1	15 days	Thu 6/17/10	Wed 7/7/10																				
10	Work Item #2	20 days	Tue 7/6/10	Mon 8/2/10																				
11	Work Item #3	15 days	Tue 8/3/10	Mon 8/23/10																				
12	Work Item #4	25 days	Tue 8/17/10	Mon 9/20/10																				
13	Work Item #5	15 days	Thu 9/16/10	Wed 10/6/10																				
14	Work Item #6	10 days	Tue 9/21/10	Mon 10/4/10																				
15	Work Item #7	15 days	Tue 8/3/10	Mon 8/23/10																				
16	PROJECT COMPLETION	0 days	Wed 10/6/10	Wed 10/6/10																				

Robert A. Bothman, Inc.
Date: Fri 4/30/10

Task		Milestone		External Tasks	
Split		Summary		External MileTask	
Progress		Project Summary		Split	