



THREE RIVERS LEVEE IMPROVEMENT AUTHORITY AGENDA

OCTOBER 18, 2005 – SPECIAL MEETING

Yuba County Government Center

Board of Supervisors' Chambers

915 Eighth Street, Suite 109A

Marysville, California

Unless otherwise indicated

2:00 P.M. I

CALL TO ORDER

II ROLL CALL – Directors Rick Brown, Mary Jane Griego, Dan Logue, Richard Webb

III ACTION ITEMS

- A. Adopt resolutions accepting implementation grants from the State of California for the construction of the Bear-Feather River Setback Levee and Phase 2 Levee Improvements and authorizing the Executive Director to execute contract and requests for disbursement of State funds.
- B. Consider Storm Water Control Plan and take action as appropriate. *(No background material)*
- C. Approve agreement with HDR Inc. for Bear River Pump Station No. 6 modifications and authorize Chairman to execute same.

IV ADJOURN

October 18, 2005

TO: Three Rivers Levee Improvement Authority Board
FROM: Ani Bhattacharyya, Project Engineer
SUBJECT: Consider adopting resolution formally accepting implementation grants from the State of California for construction of the Phase 2 and Phase 3 (Unit 1) Levee Improvements and authorizing the Executive Director, TRLIA (and in the Executive Director's absence, his authorized TRLIA representative) to execute the grant contract and sign requests for disbursement of State funds

Recommended Action

Adopt resolution formally accepting Proposition 13 grants from the State of California for construction of the Phase 2 and Phase 3 (Unit 1) Levee Improvements, and authorizing the Executive Director, TRLIA (and, in the Executive Director's absence, his/her authorized TRLIA representative), to execute the grant contracts and sign requests for disbursement of State funds.

Reason for Recommended Action

Article A-5(a) of grant contracts 4600004326 (Phase 2 Construction) and 460004327 (Phase 3, Unit 1 Construction), requires the TRLIA Board of Directors to formally accept the grant. The article also requires the Board to designate a representative to execute the grant contract and sign requests for disbursement of State funds, before such disbursement can be effected. This is a precondition to the State's reimbursement of TRLIA's construction costs for the Phase 2 and Phase 3 projects.

Discussion and Fiscal Impact

TRLIA's estimated costs for the construction of the Phase 2 and Phase 3 (Unit 1) improvements are \$22,305,803 and \$17,758,500, respectively. The grant contracts provide for the reimbursement by the State, of TRLIA's Phase 2 and Phase 3 (Unit 1) construction costs to the amounts of **\$15,653,562** and **\$12,445,950**, respectively. These amounts represent the State's share (that is, 70 percent) of the total estimated construction costs.

**BEFORE THE THREE RIVERS LEVEE IMPROVEMENT AUTHORITY
OF THE COUNTY OF YUBA**

IN RE:)
) **RESOLUTION No. _____**
RESOLUTION ACCEPTING IMPLEMENTATION GRANT)
FROM THE STATE OF CALIFORNIA FOR THE)
CONSTRUCTION OF THE BEAR-FEATHER RIVER)
SETBACK LEVEE)
_____)

WHEREAS, the Three Rivers Levee Improvement Authority (TRLIA) adopted resolution No. 05-11 on August 2, 2005, directing and authorizing the Executive Director of the Authority to prepare, sign and file an application for obtaining State of California Proposition 13 grant funds for construction of the Bear-Feather River Setback Levee in South Yuba County.

WHEREAS, the proposed work is referred to as the TRLIA Phase 3 Construction project.

WHEREAS, on October 12, 2005, the California Department of Water Resources (acting on behalf of the State of California) forwarded for TRLIA's consideration and acceptance, Grant Contract No. 4600004327, which, if accepted and signed by the TRLIA Board of Directors, will make State funds available for the Phase 3 Construction work.

WHEREAS, Article A-5(a) of the grant contract requires the TRLIA Board of Directors to formally accept the grant, and designate a representative to execute the grant contract and sign requests for disbursement of State funds.

NOW, THEREFORE, BE IT IS RESOLVED BY THE BOARD OF DIRECTORS OF THE THREE RIVERS LEVEE IMPROVEMENT AUTHORITY AS FOLLOWS:

1. The foregoing recitals are true and correct.
2. The Authority Board of Directors accept the subject grant, and designate the Executive Director, TRLIA (and, in the Executive Director's absence, his/her authorized TRLIA representative) as the Board's representative to execute the grant contract and sign requests for disbursement of State funds.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the Three Rivers Levee Improvement Authority, on the ____ day of October, 2005, by the following vote:

AYES:

NOES:

ABSENT:

RICHARD WEBB, CHAIRPERSON

ATTEST: DONNA STOTTLEMEYER
Clerk of the Board of Supervisors

By _____

APPROVED AS TO FORM

DANIEL G. MONTGOMERY,
County Counsel

**BEFORE THE THREE RIVERS LEVEE IMPROVEMENT AUTHORITY
OF THE COUNTY OF YUBA**

IN RE:)
) **RESOLUTION No. _____**
RESOLUTION ACCEPTING IMPLEMENTATION GRANT)
FROM THE STATE OF CALIFORNIA FOR THE)
CONSTRUCTION OF THE PHASE 2 LEVEE)
IMPROVEMENTS)
_____)

WHEREAS, the Three Rivers Levee Improvement Authority (TRLIA) adopted resolution No. 05-09 on July 12, 2004, directing and authorizing the Executive Director of the Authority to prepare, sign and file an application for obtaining State of California Proposition 13 grant funds to carry out construction work for the improvement of the Reclamation District No. 784 Western Pacific Interceptor Canal, Upper Bear River and Yuba River levees.

WHEREAS, the proposed work is referred to as the TRLIA Phase 2 Construction project.

WHEREAS, on October 12, 2005, the California Department of Water Resources (acting on behalf of the State of California) forwarded for TRLIA's consideration and acceptance, Grant Contract No. 4600004326, which, if accepted and signed by the TRLIA Board of directors, will make State funds available for the Phase 2 Construction work.

WHEREAS, Article A-5(a) of the grant contract requires the TRLIA Board of Directors to formally accept the grant, and designate a representative to execute the grant contract and sign requests for disbursement of State funds.

NOW, THEREFORE, BE IT IS RESOLVED BY THE BOARD OF DIRECTORS OF THE THREE RIVERS LEVEE IMPROVEMENT AUTHORITY AS FOLLOWS:

1. The foregoing recitals are true and correct.
2. The Authority Board of Directors accept the subject grant, and designate the Executive Director, TRLIA (and, in the Executive Director's absence, his/her authorized TRLIA representative) as the Board's representative to execute the grant contract and sign requests for disbursement of State funds.

PASSED AND ADOPTED at a regular meeting of the Board of Directors of the Three Rivers Levee Improvement Authority, on the _____ day of October, 2005, by the following vote:

AYES:

NOES:

ABSENT:

RICHARD WEBB, CHAIRPERSON

ATTEST: DONNA STOTTLEMEYER
Clerk of the Board of Supervisors

By _____

APPROVED AS TO FORM

DANIEL G. MONTGOMERY,
County Counsel

October 18, 2005

TO: Three Rivers Levee Improvement Authority Board
FROM: Ani Bhattacharyya, Project Manager
SUBJECT: Request for Modifications to Scope of Services and Fourth Amendatory Agreement dated March 15, 2005, submitted by HDR, Inc., for Phase 2 Design and Construction, to accommodate changes in preciously approved scope of design services

Recommended Action

Approve Request for Modifications to Scope of Services and Fourth Amendatory Agreement dated March 15, 2005, submitted by HDR, Inc., for Phase 2 Design and Construction, to accommodate changes in previously approved scope of design services

Reason for Recommended Action/Discussion

The contract amendment has been necessitated due to recent additions to HDR's previously approved scope of services for the project. These additions pertain to a redesign of Pump Station 6 (PS6), located near the confluence of the Algodon Canal and Bear River, in South Yuba County. This pump station pumps water from the Algodon Canal through the Upper Bear River levee into the Bear River. As part of the Phase 2 levee repair, PS6 was re-designed to a capacity of 60 cubic-foot/second (cfs), with a redundancy of additional 60 cfs. Future development in the area east of Highway 70 – in particular, the ongoing River Oaks subdivision by Lennar Communities (Lennar), is expected to generate increased runoff, which, till such time that these subdivisions implement their designed permanent drainage collection and control measures, will increase flows to Algodon Canal. To address the Algodon Canal's increased flow as a result of this additional runoff till such time that the subdivisions' drainage collection and control measures come on line, PS6 needs to be temporarily modified to 200 cfs capacity with redundancy, whereafter the pump station will be converted back to its originally-designed configuration (60 cfs capacity, with 60 cfs additional redundancy).

The additional services to be provided by HDR for the redesign of PS6 include the following:

- Undertake design and prepare plans, specifications and engineering reports for modifications to PS6, the adjacent project levee and the outfall structure as a result of the required increased pump station capacity
- Coordinate with the United States Army Corps of Engineers and other agencies during design and construction
- Provide an addendum for the Basis of Design report for the pump station modifications.

Fiscal Impact

This amendment will increase the price ceiling HDR's for Phase 2 Design Services by \$155, 071, raising the overall estimated Phase 2 design costs from \$2,844,237 to \$2,999,308. However, all of the costs related to the redesign and subsequent construction, as well as subsequent reconstruction of Pump Station 6 to the Phase 2 design configuration, will be borne by Lennar. Lennar will also be responsible for addressing any permit issues and clearances that may be required for the construction of the pump station and its appurtenances. TRLIA is in receipt of a letter from Lennar stipulating to the above, as well as a deposit of \$160,000 to cover the estimated design costs. TRLIA and Lennar are currently working on a formal agreement.

With this change, the total estimated amount for HDR's Phase 2 design, and 2005 construction management services comes to **\$3,697,369**. Adding the expenses incurred by HDR for their services during Phase 1 design and construction, the final, total approved budget for HDR's services for the TRLIA project comes to **\$4,307,279.57**. These amounts were calculated using hourly labor rates that had been presented by HDR as part of their original contract, which was approved by the TRLIA Board.

October 14, 2005

Mr. Anirban Bhattacharyya
Yuba County Department of Public Works
915 Eighth Street, Suite 125
Marysville, CA 95901

RE: Bear River Pump Station No. 6 Modifications

Dear Mr. Bhattacharyya:

HDR is pleased to submit our scope, schedule, and fee proposal for accomplishing the engineering and design services for Pump Station No. 6 in Yuba County, which pumps water from the Algodon Canal through the north Bear River project levee into Bear River in Reclamation District No. 784. Future development in the area necessitates an upgrade of the pump station design previously completed for the Three Rivers Levee Improvement Authority Phase 2 Levee Repairs Project. Services to be provided include:

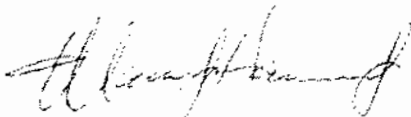
- ▶ Prepare PS&E for modifications to Pump Station No. 6, the adjacent project levee, and the outfall structure as a result of the increased pump station capacity.
- ▶ Coordinate with USACE and other agencies during design and construction.
- ▶ Provide an addendum/ revised Basis of Design Report for the pump station modifications.

A summary of project tasks and the costs associated for each is as follows:

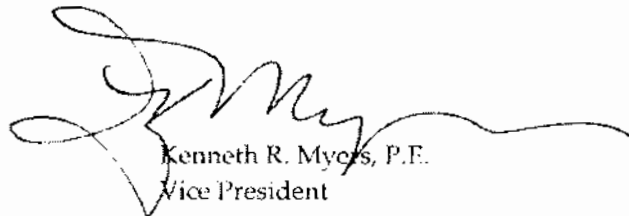
<u>Task</u>	<u>Cost</u>
Task 1 – Project Management	\$21,856
Task 2 – Pump Station No. 6 Modifications & Related Design Changes	<u>\$133,215</u>
Total	\$155,071

If you have any questions please call Mr. Ken Myers at (916) 817-4860.

Sincerely,



Mark Hammer, P.E.
Vice President



Kenneth R. Myers, P.E.
Vice President

Attachments

KRM:blb/05234

Scope of Work

Pump Station No. 6 Modifications Bear River

October 14, 2005

**Three Rivers Levee Improvement Authority
Marysville, California**



HDR

2365 Iron Point Road, Suite 300
Folsom, CA. 95630

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PROJECT BACKGROUND AND OVERVIEW

PROJECT OVERVIEW

Engineering redesign services have been requested for Pump Station No. 6 in Yuba County, which pumps canal water from the Algodon Canal through the north Bear River Levee and into the Bear River in Reclamation District No. 784 (RD 784). Future development in the area necessitates an upgrade of the pump station design already completed for the Three Rivers Levee Improvement Authority (TRLIA) Phase 2 Levee Repairs Project. The existing 60 cfs pump station design (with 60 cfs redundancy) must be modified to 200 cfs with redundancy to accommodate development-induced increases in runoff. This work is related to the Phase 2 project, as the existing contract documents will be used and modified as necessary for this redesign. It is anticipated that the pump station will be converted back to its original capacity in the future, after another pump station in the area is constructed.

Services to be provided include:

- ▶ Prepare PS&E for modifications to Pump Station No. 6, the adjacent project levee, and the outfall structure as a result of the required increased pump station capacity.
- ▶ Coordinate with USACE and other agencies during design and construction.
- ▶ Provide an addendum for the Basis of Design Report for the pump station modifications described herein.

The scope of work has been divided into two tasks outlining design activities, deliverables and assumptions. Note that where task descriptions are based on assumptions, a change in the quantity of scope of the assumption shall constitute justification for additional fee and/or time. Major tasks are as follows:

Task 1 - Project Management

Task 2 - Pump Station No. 6 Modifications & Related Design Changes

Task 1. Project Management

1.1. Project Management

Project management is the application of knowledge, skills, tools, and techniques to project activities in order to meet or exceed stakeholder needs and expectations from a project. Meeting or exceeding stakeholder needs and expectations invariably involves balancing competing demands among:

- ▶ Scope, time, cost, and quality.
- ▶ Stakeholders with differing needs and expectations.
- ▶ Identified requirements and unidentified expectations.

HDR's project manager will manage the scope, schedule and budget for all project activities related to the pump station modification, including the design team and subconsultants. In addition, the project manager will coordinate with the client, program manager, agencies and other stakeholders throughout the duration of the project.

Assumptions:

- ▶ Assume duration from October 21, 2005 to January 31, 2006.

1.2. Design Meetings

CONSULTANT will attend two meetings with TRLIA and other interested agencies regarding the upgrade.

Deliverables:

- ▶ Meeting notes.

Comments/Assumptions:

- ▶ Two two-hour meetings will be required.

1.3. Quality Control

CONSULTANT will implement quality control of all deliverables, as outlined in the Quality Control Plan (QCP) previously submitted for the Phase 2 project.

Deliverables:

- ▶ QC reviews on each deliverable.

Comments/Assumptions:

- ▶ QC reviews will be completed for all major deliverables.

SCOPE OF SERVICES

1.4. Agency Coordination

CONSULTANT will facilitate coordination between TRLIA, RD 784, USACE, Reclamation Board, DWR, and other involved agencies during the duration of the project.

Deliverables:

- ▶ Meeting notes, telephone conversation records and correspondence.

Comments/Assumptions:

- ▶ Files of external coordination will be provided.

Task 2. Pump Station No. 6 Modifications & Related Design Changes

2.1. Pump Station Modification

CONSULTANT will perform civil design modifications to the original design of Pump Station No. 6, as required to meet RD 784 criteria for a 200 cfs pump station. The RD 784 criteria are as follows:

- ▶ The pump station will have at least one redundant pump.
- ▶ A backup generator will be supplied to run three of the four pumps. The backup generator will be capable of operating the design pump station capacity, not including the redundant pump. The generator shall be able to provide power to operate 200 cfs, minimum.
- ▶ The pump station will meet all Hydraulic Institute design criteria.
- ▶ The pump station will be completed and operational no later than October 15, 2006.
- ▶ The original Phase 2 design of the pump and motors for the 60 cfs configuration (with 60 cfs of redundant pumps, for a total of 120 cfs capacity) will also be provided to the District. The 60 cfs pump and motors shall be design and constructed such that installation can be performed without significant modifications. The discharge flange will be the same size and bolt pattern as the 200 cfs pump and motor configuration. The pumps will be interchangeable.
- ▶ The larger pump and motor configuration along with the backup generator shall become the property of RD 784.

Comments/Assumptions:

- ▶ The culverts under Feather River Boulevard shall be cleaned by others as required to allow 200 cfs to pass unimpeded. It is the opinion of RD 784 and the Yuba County that the culverts have been plugged or damaged and no longer can meet the criteria.

2.1.1 Draft and Final Design Drawings

Design sections and sketches will be prepared for the required facilities. These design sections and sketches will be submitted for review to TRLIA, Reclamation District No. 784, and others identified by TRLIA. The items submitted will include pump station structure, force mains, electrical, backup generator, and other important features of design.

CONSULTANT will work with Kit Burton, the RD 784 consultant responsible for running the UNET computer model, for the revised Drainage Basin C hydraulics as well as with other members of the Project Team. CONSULTANT will use this information to prepare the pump station hydraulic information, size the pump motors, and select the proper pumps.

SCOPE OF SERVICES

This item includes the engineering and design not included in other scope tasks, drafting, and reproduction costs to produce the drawings as estimated, including revisions to the drawings to incorporate all appropriate comments received from reviewers from the draft design reviews. It is anticipated that 10 sets of half size drawings will be required for the draft submittal; and 10 sets (both full size and half size) for the final design submittal for use during the bidding process. A conformed set of drawings including the addenda made during the bidding process (15 copies) will also be provided.

2.1.2 Update Basis of Design

CONSULTANT will prepare information to be included as an addendum to the Basis of Design report prepared for the Phase 2 project. The information will include a discussion regarding the temporary nature of this 200 cfs pump and motor configuration. The information provided will address the time when the pump station can be converted back to the original 60 cfs configuration.

2.1.3 Pump, Motor, and Pipe Memorandum

CONSULTANT's Project Team will prepare a memorandum prior to the completion of the draft PS&E package that addresses the hydraulic requirements for the pump and the requirements for the motor. It will also include the outfall pipe and valve sizes. The memorandum is required to allow the Contractor to order the long lead time items. The pump, motor, and pipes sizes will then become the basis for the design of the structure and levee improvements.

2.1.4 Technical Specifications

CONSULTANT will prepare technical specifications starting with the specifications developed for the Pump Station No. 6 Project and updated to reflect the modified pump station. Since the requirement is to provide both the original pump and motor configuration along with the new configuration, the specifications will be modified to include both requirements. New technical specifications will be added or deleted as required for this specific project. The SpecsIntect program will be used.

The General Conditions, Special Provisions, and Contract Forms in the original Pump Station No. 6 project will be reviewed, and modifications, if any, will be made prior to finalization.

2.1.5 PG&E Application and Pre-Engineering Meeting

CONSULTANT will prepare the PG&E application and attend the pre-engineering meeting with PG&E. All fees and deposits will be covered by others and, as such, are not included in the fee associated with this scope of work. RD 784 will be required to sign the applications, as they will be the end user of the electrical source.

2.1.6 Cost Estimates

CONSULTANT will prepare construction cost estimates for all project features that will be provided at the draft design submittal. The estimates will be prepared in accordance with the

SCOPE OF SERVICES

format and criteria established in previous projects. Quantities for each construction bid item will be calculated and documented.

2.1.7 Construction Support

CONSULTANT will continue to work together during the construction of the pump station. This task includes supplementing the TRLIA Phase 2 contract with additional services required to review shop drawings, RFI's, submittals, and other construction-related issues directly related to the new 200 cfs pump and motor configuration.

2.1.8 Attendance of Construction Status Meeting

CONSULTANT will attend construction and design status meetings directly related to the 200 cfs pump and motor configuration change. This task also includes attendance at meetings prior to the notice to proceed.

Comments/Assumptions:

- ▶ It is assumed that CONSULTANT will receive notice of intent no later than October 14, 2005 and a notice to proceed no later than October 21, 2005. CONSULTANT will not be able to reserve staff time to perform the work after October 21, 2005.
- ▶ The scope of work does not include any design work and/or hydraulic analysis of the culverts at Feather River Boulevard.
- ▶ The scope of work assumes that no additional environmental requirements or right-of-way will be required.
- ▶ This task includes the pump station and the force main work. The outfall structure, levee modifications, gate vault structure, box culvert, and additional embankment to provide a suitable pad for the back-up generator above elevation 60.0 (USGS) are addressed by the following tasks.

2.2. Civil Design Modifications

CONSULTANT will perform modifications to the levee adjacent to Pump Station No. 6, as well as the levee slopes surrounding the outfall structure. Information needed to proceed with the design will consist of the new layout and design for the pump station and back-up generator, and the new force main size, layout, spacing, and profile elevations. Plans, specifications, and estimates will be modified as necessary to reflect the changes.

Comments/Assumptions:

- ▶ It is assumed that no environmental or real estate coordination or involvement will be necessary.

SCOPE OF SERVICES

2.3. Structural Design Modifications to Outfall Structure

CONSULTANT will perform structural design modifications to the outlet structure based on revised outfall information. Information needed to proceed with the design will consist of the new force main size, layout, spacing, and profile elevations. Plans, specifications, and estimates will be modified as necessary to reflect the changes.

Comments/Assumptions:

- ▶ It is assumed that no environmental or real estate coordination or involvement will be necessary.
- ▶ It is assumed that the gate vault structure will not be affected by the pump station upgrade and will not require modification.

2.4. Basis of Design Report

CONSULTANT will provide a supplement / addendum to the Basis of Design Report regarding the modifications to pump Station No. 6. The Basis of Design report will summarize the pump station and levee modifications that will be carried through construction.

Comments/Assumptions:

- ▶ This element of the project will consist of descriptions of modifications to Pump Station No. 6 and related design changes only. No additional refinements to the design for the levee repair projects will be included.
- ▶ Basis of Design TM will be submitted for review. Comments will be incorporated in a final Basis of Design TM and into Final Design for the Pump Station No. 6 modifications.

2.5. Submit Draft Pump Station No. 6 Modifications Design & Basis of Design Technical Memorandum

Deliverables:

- ▶ Draft Design (PS&E) for Pump Station No. 6 Modifications (10 copies).
- ▶ Draft Basis of Design Technical Memorandum (10 copies).

2.6. TRLIA and Agency Review

TRLIA and outside agency review of Draft Design and Basis of Design Report.

Comments/Assumptions:

- ▶ Assume 14-calendar day review.

SCOPE OF SERVICES

2.7. Submit Final Pump Station No. 6 Modifications Design & Basis of Design Technical Memorandum

CONSULTANT will conduct a meeting to review and verify with TRLIA, RD 784, USACE, and other interested agencies the preferred plan for repairs to the Yuba River levee.

Deliverables:

- ▶ Final Design (PS&E) for Pump Station No. 6 Modifications (10 copies).
- ▶ Basis of Design Technical Memorandum (10 copies).

SCHEDULE FOR PERFORMANCE

Table 1. Schedule of completion

Task Description	Duration
Task 1 - Project Management	Ongoing
Letter of Intent provided to TRLIA from Lennar Homes	NLT October 14, 2005
Notice to Proceed to CONSULTANT from TRLIA	NLT October 21, 2005
Task 2.1.3 – Pump, Motor, and Pipe Memorandum	December 16, 2005
Task 2.5 – Draft PS&E Package for Pump Station No. 6 Modifications	January 13, 2006
Task 2.5 – Basis of Design Addendum	January 27, 2005
Task 2.7 – Final PS&E Package for Pump Station No. 6	February 3, 2005

Services Provided By Others:

- ▶ Base mapping and field surveys (levee cross sections, property lines, utility locations). Mapping and survey data will be provided to CONSULTANT in hard copy and digital formats.
- ▶ Preparation of plats and descriptions.
- ▶ Appraisals, negotiations with property owners, and acquisitions.
- ▶ Culvert Modifications at Feather River Boulevard
- ▶ LOMR to reflect 200 cfs pump and motor configuration.
- ▶ Electrical service design from PG&E service grid to electrical service panel. It is assumed that the design and construction will be handled by PG&E or others.



FEES AND PAYMENTS

Payment for all engineering services performed by CONSULTANT shall be on a time and materials as described by the terms of this Scope of Services. Payments made by TRLIA to CONSULTANT for engineering services shall be full compensation for all personnel, materials, supplies, and equipment used by CONSULTANT to complete the work.

CONSULTANT has prepared a cost breakdown shown below.

Table 2. Not to Exceed total

Item	Budget
Task 1 - Project Management	\$21,856
Task 2 – Pump Station No. 6 Modifications & Related Design Changes	\$133,215
Total	\$155,071

HDR, INC.
STANDARD RATE SCHEDULE
January 2005 - December 2005

Classification	Rate
E7	\$ 195.00
E6	\$ 185.00
E5	\$ 155.00
E4	\$ 122.00
E3	\$ 100.00
E2	\$ 90.00
E1	\$ 80.00
T4	\$ 105.00
T3	\$ 91.50
T2	\$ 60.00
T1	\$ 48.00
Financial	\$ 95.00
Web Technician	\$ 81.00
Administrative/Clerical	\$ 61.00

Please Note: Rates include current overhead rate plus profit.

EXPENSES

In-House Expenses -

Technology Fee (per labor hour)	\$ 4.10
Vehicle Mileage (per mile)	\$ 0.485
Color Copy (per copy)	\$ 1.65
Photocopies (per copy)	\$ 0.10

Plotting (cost depends on size of plot)

	<i>Black and White</i>	<i>Color</i>
Bond	\$0.80 to \$3.50	\$10.50 to \$20.25
Vellum	\$1.60 to \$9.65	\$12.50 to \$24.75
Mylar	\$2.50 to \$14.85	\$15.00 to \$29.25

Other Expenses

Hired Services - Subconsultants, typing services, etc.
 Miscellaneous Supplies - Publications, printing, equipment rental, etc.

Please Note: Outside expenses are charged with a 10 percent markup (excluding travel).

THREE RIVERS LEVEE IMPROVEMENT AUTHORITY
 Pump Station No. 6 Modifications
FEE WORKSHEET

No.	Task Description	Labor											Expenses	M/M	Total				
		PM E7	QC E8	Str Engr E8	Contr E8	Cust E8	PE E8	Civ E4	Civ E2	CADD T3	Acct	Clerical				Total Hours	Total Labor (9)		
1. PROJECT MANAGEMENT																			
1.1	Project Management	16					16										7,336	\$ 807	\$ 5,143
1.4	Design Meetings						16										32	\$ 488	\$ 4,820
1.6	Quality Control	2					20										22	\$ 364	\$ 3,974
1.7	Agency Coordination						18										32	\$ 488	\$ 4,820
	Subtotal Project Management	18	0	0	0	68	40	0	0	0	0	0	0	0	0	134	\$ 19,690	\$ 2,168	\$ 21,858
2. PUMP STATION NO. 6 MODS & RELATED DESIGN CHANGES																			
2.1	Pump Station Modifications (by WHM)						16										0	\$ 0	\$ 99,550
2.2	Civil Design Modifications						16										50	\$ 6,000	\$ 6,749
2.3	Structural Design Mods to Outfall Structure						24										32	\$ 4,208	\$ 4,671
2.4	Basis of Design Report						8						72				96	\$ 9,798	\$ 10,074
2.5	Drain Design						8						24				40	\$ 4,164	\$ 4,622
2.7	Final Design						84						96				240	\$ 3,336	\$ 99,550
	Subtotal Pump Station No. 6 Modis	0	16	0	0	0	132	40	0	0	0	0	96	0	0	414	\$ 50,016	\$ 6,502	\$ 99,550
	TOTAL ENGINEERING EFFORT (TASKS 1-2)	18	16	0	0	68	40	0	0	0	0	0	96	0	0	414	\$ 50,016	\$ 6,502	\$ 99,550

*Subcontractants marked up by 10%