



**Purchasing Department  
5700 Cass Avenue, suite 4200  
Detroit, Michigan 48202  
(313) 577-3734  
FAX (313) 577-3747**

**Division of Finance and Facilities Management**

To: Ken Doherty, Associate Director, Purchasing

From: Valerie Kreher, Senior Buyer, Purchasing Ext: 7-3720

Subject: **Addendum #1** To Request for Proposal For 5057 Woodward: Renovation for the Relocation of Computer Science 2009, Minutes of the Pre-bid Conference, RFP 5057 Woodward: Renovation for the Relocation of Computer Science 2009, Project 071-156176

Date: September 25, 2009

CC: Kirk McWilliam (Project Manager), Joan Gossman, Attendee list.

**IMPORTANT – PLEASE NOTE:** Effective December 1, 2007, bid notices will be sent only to those Vendors registered to receive them via our Bid Opportunities Listserve service. To register, to [http://www.forms.purchasing.wayne.edu/Adv\\_bid/Adv\\_bid.html](http://www.forms.purchasing.wayne.edu/Adv_bid/Adv_bid.html), and click on the “Join our Listserve” link at the top of the page. Instructions are at the top of the page, and the Construction Listserv service is under “Construction Bid Opportunities”.

NOTE: You must have attended a prebid conference in order to be eligible to bid on a particular project. Receipt of minutes or addenda without being at a prebid conference does not qualify your company to bid.

The pre-bid conference for Request for Proposal for 5057 Woodward: Renovation for the Relocation of Computer Science 2009, Project 071-156176 was held on September 25, 2009, at 2:00 p.m. (local time) – at Detroit, MI 48202. Valerie Kreher reviewed the highlights of the pre-bid package, especially concerning details such as bid due dates and who vendors may contact during the live bid process. Kirk McWilliam and Bruce and Beth from TPM discussed the technical aspects of the project and bid requirements, and conducted the Q & A session.

**Numerous simple questions and answers were addressed at the pre-bid meeting. Some of the issues were as follows:**

- A bid bond is not required for bids below \$50,000. Otherwise, a bid bond (5%) will be required for the full amount of the bid.
- Performance Bond and Material & Labor Payment Bond requirements are listed in the specifications of the job. Performance & Material & Labor Payment Bonds must be provided by the awarded Vendor with the submission of the signed contract; which will then be submitted to FP&M management for counter signature.
- The awarded vendor must provide the required Certificate of Insurance in compliance with Schedule B of the bid specifications prior to commencement of any work.
- University Design Standards are found on the University website [http://www.forms.purchasing.wayne.edu/Adv\\_bid/Adv\\_bid.html](http://www.forms.purchasing.wayne.edu/Adv_bid/Adv_bid.html). These standards are inclusive to the drawing and contract documents. Any discrepancies between the drawings and the University Design Standards must be identified by bidders during the bid phase for clarification.
- If your company has not previously done business with the University you may go to the Purchasing website at [www.purchasing.wayne.edu](http://www.purchasing.wayne.edu) and look for the “new vendor” link in the gold box on the left. You may submit a new vendor request form and an IRS form W-9. This will register your company on our vendor list. (NOTE: this does not replace the listserv.)
- A Prevailing Wage Rate Schedule is not included in Section 00410 of the Bid Specifications. A project with a project cost exceeding \$250,000 requires a Project Labor Agreement (PLA) with the local building trades council. Vendors must review these requirements to be sure they are in compliance with the requirements of the University and the State of Michigan. Contact the State of Michigan if further

information on prevailing wage rate is needed at website  
[http://www.cis.state.mi.us/bwuc/bsr/wh/revised\\_rates/whc\\_tbl.htm](http://www.cis.state.mi.us/bwuc/bsr/wh/revised_rates/whc_tbl.htm).

- Certified Payroll must be provided with each of the contractor's pay applications for all workers including subcontractor's staff who worked at the job site, in compliance with the new State of Michigan ordinance. Failure to provide certified payroll will constitute breach of contract, and pay applications will be returned unpaid.
- Signed waivers from all subcontractors and suppliers must accompany Pay Applications or they will be returned for such documentation prior to approval.
- A check list will be provided to the successful contractor of all Pay Application requirements.
- Parking on WSU campus lots and structures are \$4.25/access. Vendor must build parking into their lump sum bid.
- Section 300, Form of Proposal has been changed to describe the 11 alternates in better detail, a new Section 300 has been attached to the minutes, review carefully and complete in its entirety to avoid disqualification
- Vendor must provide their own dumpster, which must be rubber or plywood padded if placed on concrete. Dumpster must be tagged with the name of your company clearly displayed. Any lawn damage must be restored.
- Work is on the 2<sup>nd</sup>, 3<sup>rd</sup>, and 14<sup>th</sup> floors of 5057 Woodward Ave
- There will be a second walkthrough on Wednesday, September 30, at 10:00 am. It will begin on the second floor. Be 10 minutes early to ensure that you are not left behind when the group moves to the 3<sup>rd</sup> and 14<sup>th</sup> floors.
- Special care should be given when removing the wood paneling on the 14<sup>th</sup> floor and marble so that the material can be reused on site as noted on the documents.
- Signage is part of the contract
- Due to the fact that many doors are being reused on this project pay special attention to the door and hardware schedules and specifications.
- The University has completed a Phase I Hazardous Materials Survey. Remediation of all hazardous materials are the University's responsibility. The successful bidder will receive a copy of the report.
- Use of the freight elevator is non exclusive, coordination with the mail room will have to be worked out. If the contractor uses the passenger elevators, they must be properly protected.
- The building is currently occupied. Vendors must be cognizant of building occupants and must coordinate demolition and shut downs with the project manager
- The building is open from 7:30am to 7:00 pm Monday through Friday. Occasional Saturday hours can be coordinated with the project manager.
- Vendors are responsible for **daily cleanup** in front of the elevators on second and third floors. Appropriate dust protection must be used to protect the occupants.
- Air circulation must be maintained to the northwest corner of the 2<sup>nd</sup> floor
- The freight elevator measures 7 foot deep and 8 foot high
- An inventory of existing electrical materials salvaged from the server room is part of this addendum.
- The inventory of doors and lighting fixtures on the 14<sup>th</sup> floor of the building that are not being reused on the project will be relocated to the basement by the contractor for the university's future use.
- The apparent low bidder must present to the University their Schedule of Values including a list of Contractor's subcontractors at the pre award meeting.
- Questions are due by October 9, 2009 at 12:00 noon
- Bids are due no later than 2:00 p.m., October 15, 2009 at 5700 Cass Ave. Room 4200 AAB. Bid opening will follow in room 4400 AAB
- A copy of the sign in sheet is available for downloading from the University Purchasing Web Site at [http://www.forms.purchasing.wayne.edu/Adv\\_bid/Adv\\_bid.html](http://www.forms.purchasing.wayne.edu/Adv_bid/Adv_bid.html).
- **IMPORTANT- This is an addendum which MUST be acknowledged on your bid form**

**We will require two copies each of your lump sum proposals, vendor qualification questionnaire and your bid bond documents.**

All questions concerning this project must emailed to: Valerie Kreher, Purchasing Department. Email: [ab4889@wayne.edu](mailto:ab4889@wayne.edu), copy Ken Doherty, Associate Director, at [ac0578@wayne.edu](mailto:ac0578@wayne.edu).

**Do not contact either FP&M or the Design Firm directly as this may result in disqualification of your proposal.**

Thank you for interest shown in working with Wayne State University.

VENDOR NAME \_\_\_\_\_

**GENERAL CONTRACT - PROPOSAL FORM (revised 7 - 2009)**

**Please Note – Vendors must Prequalify themselves when responding to this bid opportunity. Our Prequalification questions can be found on page 4 of this section.**

**OWNER:** Board of Governors  
Wayne State University

**PROJECT:** **5057 Woodward: Renovation for the Relocation of Computer Science**

**PROJECT NO.:** WSU PROJECT NO. 071-156176

**PROJECT TYPE (Check One):**

	<b>Mechanical Work</b>
	<b>Electrical Work</b>
<b>x</b>	<b>General Construction, Office, classroom</b>
	<b>General Construction, specialized, research space</b>
	<b>Hazardous Material</b>
	<b>Cement</b>
	<b>Roofing</b>

**PURCHASING AGENT:** Valerie Kreher, Senior Buyer  
WSU – Purchasing Department  
5700 Cass, Suite 4200  
Detroit, Michigan 48202  
313-577-3720/ 313-577-3747 fax  
**ab4889@wayne.edu & copy ac0578@wayne.edu**

**OWNER'S REPRESENTATIVE:** Kirk McWilliam, Project Manager  
Design & Construction Services  
Facilities Planning & Management  
Wayne State University  
5454 Cass Avenue  
Detroit, Michigan 48202

**TO:** Board of Governors  
Wayne State University  
Detroit, Michigan

**BASE PROPOSAL:**

The undersigned agrees to enter into an Agreement to complete the entire work of the 5057 Woodward: Renovation for the Relocation of Computer Science project (WSU Project No. 071-156176) in accordance with the Bidding Documents for the following amounts:

\_\_\_\_\_ Dollars (\$) \_\_\_\_\_ )

**ALTERNATE #1 PROPOSAL:**

In lieu of various acoustical ceiling elevations as shown on drawings, raise HVAC ductwork and associated mechanical and electrical fixtures and equipment in order to install the acoustical ceiling grid and pads at a uniform elevation for the following amounts:

Add or Deduct \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ )

**ALTERNATE #2 PROPOSAL:**

In lieu of 2' x 2' acoustical ceiling system type ACT1 add 2' x 4' acoustical ceiling system ACT1 (Alt.) as follows:

1. ACT1 (Alt.) USG Interiors  
Radar ClimaPlus Illusion Two/24 Panels  
Item No.: 2842  
Size: 24" x 48" x 3/4"  
Edge: SLT  
Color: White  
Or Equal By: Armstrong, BPB America Inc.:

Add or Deduct \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ )

**ALTERNATE #3 PROPOSAL:**

In lieu of VCT flooring at Research Labs, add LIN flooring as follows:

1. LIN (Alt.) Manufacturer: Forbo  
Marmoleum  
Style: Real Authentic  
Color: Architect to select from Manufacturer's full range.  
Or approved equal from Armstrong:

Add or Deduct \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ )

**ALTERNATE #4 PROPOSAL:**

Remove the existing carpeting system in the existing 2nd Floor Elevator Lobby 2000. Clean and refinish the existing marble flooring system in the existing 2nd Floor Elevator Lobby 2000 for the following amounts:

Add or Deduct \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ )

**ALTERNATE #5 PROPOSAL:**

Clean and paint the existing ceiling, walls, doors and frames in Corridor 14002 for the following amounts:

Add or Deduct \_\_\_\_\_ Dollars (\$ \_\_\_\_\_ )

**ALTERNATE #6 PROPOSAL:**

Clean and paint the existing plaster ceiling system with up to six (6) color selections for the 3rd Floor Elevator Lobby 3000 and 2nd Floor Corridors 2100 and 2100.1. Clarification: Base bid shall include one (1) color selection. Six (6) color scheme based upon 2nd Floor Elevation Lobby 2000 plaster ceiling system for the following amounts:

Add or Deduct \_\_\_\_\_ Dollars (\$ \_\_\_\_\_ )

**ALTERNATE #7 PROPOSAL:**

Eliminate marker boards for all Office and Research Lab locations. Miscellaneous wood blocking in walls to remain for future marker boards. Wood framed marker boards for Conference Rooms 14003.1 and 3103.4 to remain for the following amounts:

Add or Deduct \_\_\_\_\_ Dollars (\$ \_\_\_\_\_ )

**ALTERNATE #8 PROPOSAL:**

Eliminate wood framed marker boards for Conference Rooms 14003.1 and 3103.4. Miscellaneous wood blocking in walls to remain for future marker boards for the following amounts:

Add or Deduct \_\_\_\_\_ Dollars (\$ \_\_\_\_\_ )

**ALTERNATE #9 PROPOSAL:**

Eliminate adjustable shelves, metal wall standards, metal brackets, plywood and 6" studs at all locations. In lieu of 6" studs, provide 3 5/8" studs in those locations and align with the adjacent walls. Walls to align with building elements as indicated on drawings for the following amounts:

Add or Deduct \_\_\_\_\_ Dollars (\$ \_\_\_\_\_ )

**ALTERNATE #10 PROPOSAL:**

Install owner furnished uninterruptable power supply (UPS). Remove existing switches in existing distribution panelboard and install new switches and fuses as indicated. Provide feeders to UPS as indicated. Connect UPS module and associated batteries to emergency power off system for the following amounts:

Add or Deduct \_\_\_\_\_ Dollars (\$ \_\_\_\_\_ )

**ALTERNATE #11 PROPOSAL:**

Install Schlage Electronics King Cobra 2 Electronic Locksets in lieu of Classroom Lock as indicated in Specification Section 08710 Door Hardware for the following amounts:

Add or Deduct \_\_\_\_\_ Dollars (\$) \_\_\_\_\_ )

**LAWN REPLACEMENT:**

The undersigned agrees that, in the event of existing lawn or landscaping damage, due to the Contractor's work, that has not been properly addressed and repaired to the satisfaction of the University, the University may repair/replace the lawn and/or landscaping, and that the expense will be at a unit cost of \$10.00 per square yard for lawn, and landscaping at a rate of 1.5 times the cost of said repairs, the full cost of which shall be reimbursed by the contractor.

**CONTRACT CHANGE**

The undersigned agrees to the following pricing formula and rates **ORDERS:** for changes in the contract work:

1. For subcontract work, Contractor's markup for handling, overhead, profit and bonding on subcontractor's sell price, shall not exceed **5%**.
2. For work by his own organization, Contractor's markup for job\* and general overhead, profit and bonding shall not exceed **5%** of the net labor\*\* and material costs.

\* Job overhead includes supervision and executive expenses; use charges on small tools, scaffolding, blocking, shores, appliances, etc., and other miscellaneous job expenses.

\*\* Net labor cost is the sum of the base wages, fringe benefits established by governing trade organizations, applicable payroll taxes, and increased expense for contractor's liability insurance (Workman's Compensation, P.L. and P.D.).

**TIME OF COMPLETION:**

The Contract will be awarded on or about **November 4, 2009**. The undersigned agrees to start construction **no earlier than the contract award date** and complete the work as follows:

Substantial Completion no later than **3-4 months after receipt of fully executed contract**

**LIQUIDATED DAMAGES:**

It is understood and agreed that, if project is not completed within the time specified in the contract plus any extension of time allowed pursuant thereto, the actual damages sustained by the Owner because of any such delay, will be uncertain and difficult to ascertain, and it is agreed that the reasonable foreseeable value of the use of said project by Owner would be the sum of **\$250.00, Two hundred fifty Dollars per day**, and therefore the contractor shall pay as liquidated damages to the Owner the sum of **\$250.00, Two hundred fifty Dollars per day** for each day's delay in substantially completing said project beyond the time specified in the Contract and any extensions of time allowed thereunder.

**TAXES:**

The undersigned acknowledges that prices stated above include all applicable taxes of whatever character or description. Michigan State Sales Tax is applicable to the work. Bidder understands that the Owner reserves the right to reject any or all bids and to waive informalities or irregularities therein.

**ADDENDA:**

The undersigned affirms that the cost of all work covered by the following Addenda are included in the lump sum price of this proposal.

Addendum No. \_\_\_\_\_ Date \_\_\_\_\_

Addendum No. \_\_\_\_\_ Date \_\_\_\_\_

Addendum No. \_\_\_\_\_ Date \_\_\_\_\_

**CONTRACTOR'S PREQUALIFICATION STATEMENT & QUESTIONNAIRE:**

**Our Minimum Requirements for Construction Bids are:**

**WSU considers this project: A mechanical renovation project.**

Criteria	Small Project bid less than \$50,000	Medium Project bid between \$50,001 and \$250,000	Large Project bid between \$250,001 and \$2 million	Very Large Project bid greater than \$2 million
EMR Rating (Experience Modification Rating)	N.A.	Required	Required	Required
Bondable Vendor	N.A.	Required	Required	Required
Length of Time in Business	2 Years	3 Years	5 Years	5 Years
Demonstrated Experience in Projects Similar in Scope in the last 3 years	N.A.	1 or more	2 or more	3 or more
Projects completed, in the same price range as your Bid for this Project, within the last 3 years	N.A.	1 or more	2 or more	3 or more
Unsuccessful Projects on Campus in last 3 years	Must have None	Must have None	Must have None	Must have None
Failure to comply with Prevailing Wage and/or Project Labor requirements	Must have None	Must have None	Must have None	Must have None
Company currently not in Chapter 11 of the US Bankruptcy Code	1 Year	2 Years	3 Years	3 Years

**Contractors must complete the following information to determine their eligibility to participate in this bid.**

This information is required with your Bid to the University

Check one of the following on the makeup of your company:

\_\_\_\_\_ Corporation

\_\_\_\_\_ Individual

\_\_\_\_\_ Partnership

\_\_\_\_\_ Joint Venture

\_\_\_\_\_ Other (Explain)

\_\_\_\_\_  
\_\_\_\_\_

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1. How many years has your organization been in business as a contractor? \_\_\_\_\_

2. How many years has your organization been in business under its present business name? \_\_\_\_\_

3. List states in which your organization is legally qualified to do business. \_\_\_\_\_

\_\_\_\_\_

4. What is your current EMR Rating? \_\_\_\_\_

5. What percentage of the work do you normally perform with your own work force/employees? \_\_\_\_\_

5. Have you ever failed to complete any work awarded to you? If so, attach a separate sheet of explanation. Include the name of the Project, the customer, the dates of the work, and the amount of the contract

6. Has any officer or partner of your organization ever been an officer or partner of another organization that failed to complete a construction contract? If so, attach a separate sheet of explanation.

\_\_\_\_\_

7. List the construction experience of the principals and superintendents of your company.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Name: \_\_\_\_\_ Title: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Name: \_\_\_\_\_ Title: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

8. List the construction Projects, and approximate dates, when you performed work similar in Scope to this project.

Project: \_\_\_\_\_ Owner: \_\_\_\_\_

Contract Amount: \_\_\_\_\_ Date Completed: \_\_\_\_\_

Project: \_\_\_\_\_ Owner: \_\_\_\_\_

Contract Amount: \_\_\_\_\_ Date Completed: \_\_\_\_\_

Project: \_\_\_\_\_ Owner: \_\_\_\_\_

Contract Amount: \_\_\_\_\_ Date Completed: \_\_\_\_\_

9. List the construction Projects, and approximate dates, when you performed work similar in Dollar Amount to this project.

Project: \_\_\_\_\_ Owner: \_\_\_\_\_

Contract Amount: \_\_\_\_\_ Date Completed: \_\_\_\_\_

Project: \_\_\_\_\_ Owner: \_\_\_\_\_

Contract Amount: \_\_\_\_\_ Date Completed: \_\_\_\_\_

Project: \_\_\_\_\_ Owner: \_\_\_\_\_

Contract Amount: \_\_\_\_\_ Date Completed: \_\_\_\_\_

10. Is your Company "bondable"? Yes \_\_\_\_\_ No \_\_\_\_\_

11. What is your present bonding capacity? \$ \_\_\_\_\_

12. Who is your bonding agent?

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTACT: \_\_\_\_\_

13. Does your company agree to provide financial reports to the University upon request? Failure to agree may result in disqualification of your bid. Yes \_\_\_\_\_ No \_\_\_\_\_

14. Does your company agree that all of the Terms and Conditions of this RFP and Vendor's Response Proposal become part of any ensuing agreement? Yes \_\_\_\_\_ No \_\_\_\_\_

15. Does your company agree to execute a contract containing the clauses shown in Section 00500 "Agreement Between Contractor and Owner for Construction"? Yes \_\_\_\_\_ No \_\_\_\_\_

If "No", clearly note any exceptions to any information contained in the contract documents and include with your proposal.

16. **Note:** Contractors submitting proposals for this project may, at the discretion of the University, be required to submit references including contact information to be used to assist in the post bid evaluation process for the subject project

**ACKNOWLEDGEMENT OF  
MINIMUM QUALIFICATIONS:**

The undersigned has read and understands the minimum qualifications for University construction projects, and has completed the Prequalification section completely and accurately. The undersigned understands that a contractor, who fails to meet the minimum qualifications **in the category identified for this project, will be disqualified from consideration for the project.**

**ACCEPTANCE OF PROPOSAL:**

The undersigned agrees to execute a Contract, being the Wayne State University standard form titled "Agreement Between Contractor and Owner for Construction", provided that we are notified of the acceptance of our Proposal within sixty (60) days of the date set for the opening thereof.

NAME OF COMPANY:

\_\_\_\_\_

OFFICE ADDRESS:

\_\_\_\_\_

PHONE NUMBER:

\_\_\_\_\_ DATE \_\_\_\_\_

FAX NUMBER:

\_\_\_\_\_

SIGNED BY:

\_\_\_\_\_

Signature

\_\_\_\_\_  
(Please print or type name here)

TITLE

\_\_\_\_\_

**COMPUTER CIRCUIT LOG**

<b>CAT. NO. / DESCRIPTION</b>	<b>CIRCUIT / AMP</b>	<b>CABLE TYPE</b>	<b>BOX</b>	<b>DEVICE</b>	<b>LENGTH</b>
1	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	50'
2	S/P - 20A	10/2 MC	2/G BELL	2 - DUPLEX	50'
3	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	54'
4	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	75'
5	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	75'
6	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	80'
7	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	75'
8	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	75'
9	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	75'
10	S/P - 20A	10/2 MC	S/G BELL	5 - 20R	75'
11	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	55'
12	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	55'
13	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	55'
14	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	55'
15	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
16	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	30'
17	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	30'
18	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	30'
19	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	30'
20	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	30'
21	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	30'
22	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	35'
23	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	60'
24	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
25	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
26	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
27	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
28	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
29	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
30	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
31	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
32	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
33	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
34	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
35	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'

**COMPUTER CIRCUIT LOG**

<b>CAT. NO. / DESCRIPTION</b>	<b>CIRCUIT / AMP</b>	<b>CABLE TYPE</b>	<b>BOX</b>	<b>DEVICE</b>	<b>LENGTH</b>
36	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
37	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
38	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	50'
39	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	50'
40	S/P - 20A	10/2 MC	2/G BELL	2 - DUPLEX	50'
41	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	45'
42	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	45'
43	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	50'
44	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	50'
45	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	55'
46	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	25'
47	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	30'
48	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	30'
49	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	45'
50	2/P - 30A	10/2 MC	4" SQ.	2 - (L6 - 30R)	20'
51	S/P - 20A	10/2 MC	4" SQ.	2 - (5 - 20R)	15'
52	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	55'
53	S/P - 20A	10/2 MC	2/G BELL	2 - DUPLEX	50'
54	2 X S/P - 20A	12/2 MC	2 X (4" SQ.)	4 - DUPLEX	30'
55	2 X S/P - 20A	12/2 MC	2 X (4" SQ.)	4 - DUPLEX	30'
56	2 X S/P - 20A	12/2 MC	2 X (4" SQ.)	4 - DUPLEX	30'
57	2 X S/P - 20A	12/2 MC	2 X (4" SQ.)	4 - DUPLEX	30'
58	2 X S/P - 20A	12/2 MC	2 X (4" SQ.)	4 - DUPLEX	30'
59	2 X S/P - 20A	12/2 MC	2 X (4" SQ.)	4 - DUPLEX	30'
60	2 X S/P - 20A	10/2 MC	4" SQ.	2 - (5 - 20R)	15'
61	2/P - 30A	10/2 MC	4" SQ.	L6 - 30R	30'
62	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	25'
63	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	60'
64	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	60'
65	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	60'
66	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	60'
67	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	60'
68	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	20'
69	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	18'
70	S/P - 20A	10/2 MC	S/G BELL	5 - 20R	30'

**COMPUTER CIRCUIT LOG**

<b>CAT. NO. / DESCRIPTION</b>	<b>CIRCUIT / AMP</b>	<b>CABLE TYPE</b>	<b>BOX</b>	<b>DEVICE</b>	<b>LENGTH</b>
71	S/P - 20A	10/2 MC	S/G BELL	5 - 20R	30'
72	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	60'
73	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	60'
74	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	18'
75	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	18'
76	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	55'
77	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	25'
78	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	25'
79	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	30'
80	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	30'
81	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	55'
82	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	35'
83	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	35'
84	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	35'
85	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	40'
86	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	40'
87	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	40'
88	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	40'
89	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	40'
90	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	40'
91	S/P - 20A	10/2 MC	S/G BELL	L6 - 20R	40'
92	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	35'
93	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	35'
94	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	50'
95	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	65'
96	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
97	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	50'
98	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	50'
99	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	50'
100	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	45'
101	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	50'
102	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	45'
103	S/P - 20A	10/2 MC	S/G BELL	BLANK	50'
104	S/P - 20A	12/3 MC	S/G BELL	BLANK	35'
105	S/P - 20A	12/3 MC	S/G BELL	BLANK	35'

**COMPUTER CIRCUIT LOG**

CAT. NO. / DESCRIPTION	CIRCUIT / AMP	CABLE TYPE	BOX	DEVICE	LENGTH
106	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	45'
107	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	45'
108	S/P - 20A	12/2 MC	4" SQ.	2 - DUPLEX	30'
109	2/P - 30A	10/5 SO	R.S. CONN.	R.S.-3934	80'
110	2/P - 30A	10/3 SO	R.S. CONN.	R.S.-3933	30'
111	2/P - 30A	10/3 SO	R.S. CONN.	R.S.-3933	30'
112	2/P - 30A	10/3 SO	R.S. CONN.	R.S.-3933	28'
113	2/P - 30A	10/3 SO	R.S. CONN.	R.S.-3933	30'
114	2/P - 30A	10/3 SO	R.S. CONN.	R.S.-3933	25'
115	2/P - 30A	10/3 SO	R.S. CONN.	R.S.-3933	24'
116	2/P - 30A	10/3 SO	R.S. CONN.	R.S.-3933	20'
117	2/P - 20A	12/3 SO	S/G BELL	6 - 15R	35'
118	2/P - 20A	12/3 SO	S/G BELL	6 - 20R	35'
119	S/P - 20A	12/3 SO	S/G BELL	BLANK	35'
120	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	48'
121	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	52'
122	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	50'
123	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	50'
124	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	44'
125	S/P - 20A	12/3 BD	4" SQ.	2 - DUPLEX	42'
126	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	42'
127	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	42'
128	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	40'
129	3/P - 50A	1" SEALTITE	4 11/16" SQ.	3 PH-4W - 50A	50'
130	2/P - 30A	1/2" SEALTITE	S/G BELL	L6 - 30R	7'
131	2/P - 30A	1/2" SEALTITE	S/G BELL	L6 - 30R	10'
132	2/P - 30A	1/2" SEALTITE	S/G BELL	L6 - 30R	12'
133	S/P - 20A	1/2" SEALTITE	4" SQ.	I.G. DUPLEX	56'
134	2/P - 30A	1/2" SEALTITE	S/G FD	R.S. - 3753	20'
135	2/P - 30A	1/2" SEALTITE	S/G FD	R.S. - 3753	20'
136	2/P - 30A	1/2" SEALTITE	S/G FD	R.S. - 3753	46'
137	S/P - 20A	1/2" SEALTITE	2/G FS	2 - DUPLEX	50'
138	S/P - 20A	1/2" SEALTITE	2/G FS	2 - DUPLEX	50'
139	S/P - 20A	1/2" SEALTITE	S/G FS	DUPLEX	22'
140	S/P - 20A	1/2" SEALTITE	S/G BELL	I.G. DUPLEX	45'

**COMPUTER CIRCUIT LOG**

<b>CAT. NO. / DESCRIPTION</b>	<b>CIRCUIT / AMP</b>	<b>CABLE TYPE</b>	<b>BOX</b>	<b>DEVICE</b>	<b>LENGTH</b>
141	2/P - 50A	6/3 BD		14 - 50R	35'
142	2/P - 15A	12/2 SO	CORD CAP	5 - 15R	38'
143	2/P - 15A	12/2 SO	CORD CAP	5 - 15R	38'
144	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	14'
145	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	14'
146	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	50'

**COMPUTER CIRCUIT LOG**

<b>CAT. NO. / DESCRIPTION</b>	<b>CIRCUIT / AMP</b>	<b>CABLE TYPE</b>	<b>BOX</b>	<b>DEVICE</b>	<b>LENGTH</b>
1	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	50'
2	S/P - 20A	10/2 MC	2/G BELL	2 - DUPLEX	50'
3	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	54'
4	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	75'
5	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	75'
6	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	80'
7	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	75'
8	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	75'
9	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	75'
10	S/P - 20A	10/2 MC	S/G BELL	5 - 20R	75'
11	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	55'
12	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	55'
13	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	55'
14	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	55'
15	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
16	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	30'
17	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	30'
18	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	30'
19	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	30'
20	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	30'
21	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	30'
22	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	35'
23	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	60'
24	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
25	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
26	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
27	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
28	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
29	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
30	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
31	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
32	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
33	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
34	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
35	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'

**COMPUTER CIRCUIT LOG**

<b>CAT. NO. / DESCRIPTION</b>	<b>CIRCUIT / AMP</b>	<b>CABLE TYPE</b>	<b>BOX</b>	<b>DEVICE</b>	<b>LENGTH</b>
36	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
37	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
38	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	50'
39	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	50'
40	S/P - 20A	10/2 MC	2/G BELL	2 - DUPLEX	50'
41	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	45'
42	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	45'
43	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	50'
44	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	50'
45	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	55'
46	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	25'
47	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	30'
48	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	30'
49	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	45'
50	2/P - 30A	10/2 MC	4" SQ.	2 - (L6 - 30R)	20'
51	S/P - 20A	10/2 MC	4" SQ.	2 - (5 - 20R)	15'
52	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	55'
53	S/P - 20A	10/2 MC	2/G BELL	2 - DUPLEX	50'
54	2 X S/P - 20A	12/2 MC	2 X (4" SQ.)	4 - DUPLEX	30'
55	2 X S/P - 20A	12/2 MC	2 X (4" SQ.)	4 - DUPLEX	30'
56	2 X S/P - 20A	12/2 MC	2 X (4" SQ.)	4 - DUPLEX	30'
57	2 X S/P - 20A	12/2 MC	2 X (4" SQ.)	4 - DUPLEX	30'
58	2 X S/P - 20A	12/2 MC	2 X (4" SQ.)	4 - DUPLEX	30'
59	2 X S/P - 20A	12/2 MC	2 X (4" SQ.)	4 - DUPLEX	30'
60	2 X S/P - 20A	10/2 MC	4" SQ.	2 - (5 - 20R)	15'
61	2/P - 30A	10/2 MC	4" SQ.	L6 - 30R	30'
62	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	25'
63	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	60'
64	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	60'
65	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	60'
66	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	60'
67	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	60'
68	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	20'
69	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	18'
70	S/P - 20A	10/2 MC	S/G BELL	5 - 20R	30'

**COMPUTER CIRCUIT LOG**

<b>CAT. NO. / DESCRIPTION</b>	<b>CIRCUIT / AMP</b>	<b>CABLE TYPE</b>	<b>BOX</b>	<b>DEVICE</b>	<b>LENGTH</b>
71	S/P - 20A	10/2 MC	S/G BELL	5 - 20R	30'
72	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	60'
73	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	60'
74	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	18'
75	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	18'
76	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	55'
77	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	25'
78	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	25'
79	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	30'
80	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	30'
81	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	55'
82	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	35'
83	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	35'
84	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	35'
85	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	40'
86	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	40'
87	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	40'
88	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	40'
89	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	40'
90	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	40'
91	S/P - 20A	10/2 MC	S/G BELL	L6 - 20R	40'
92	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	35'
93	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	35'
94	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	50'
95	S/P - 20A	12/2 MC	S/G BELL	5 - 20R	65'
96	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	45'
97	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	50'
98	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	50'
99	S/P - 30A	10/2 MC	S/G BELL	L5 - 30R	50'
100	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	45'
101	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	50'
102	2/P - 30A	10/2 MC	S/G BELL	L6 - 30R	45'
103	S/P - 20A	10/2 MC	S/G BELL	BLANK	50'
104	S/P - 20A	12/3 MC	S/G BELL	BLANK	35'
105	S/P - 20A	12/3 MC	S/G BELL	BLANK	35'

**COMPUTER CIRCUIT LOG**

CAT. NO. / DESCRIPTION	CIRCUIT / AMP	CABLE TYPE	BOX	DEVICE	LENGTH
106	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	45'
107	2/P - 20A	12/2 MC	S/G BELL	L6 - 20R	45'
108	S/P - 20A	12/2 MC	4" SQ.	2 - DUPLEX	30'
109	2/P - 30A	10/5 SO	R.S. CONN.	R.S.-3934	80'
110	2/P - 30A	10/3 SO	R.S. CONN.	R.S.-3933	30'
111	2/P - 30A	10/3 SO	R.S. CONN.	R.S.-3933	30'
112	2/P - 30A	10/3 SO	R.S. CONN.	R.S.-3933	28'
113	2/P - 30A	10/3 SO	R.S. CONN.	R.S.-3933	30'
114	2/P - 30A	10/3 SO	R.S. CONN.	R.S.-3933	25'
115	2/P - 30A	10/3 SO	R.S. CONN.	R.S.-3933	24'
116	2/P - 30A	10/3 SO	R.S. CONN.	R.S.-3933	20'
117	2/P - 20A	12/3 SO	S/G BELL	6 - 15R	35'
118	2/P - 20A	12/3 SO	S/G BELL	6 - 20R	35'
119	S/P - 20A	12/3 SO	S/G BELL	BLANK	35'
120	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	48'
121	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	52'
122	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	50'
123	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	50'
124	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	44'
125	S/P - 20A	12/3 BD	4" SQ.	2 - DUPLEX	42'
126	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	42'
127	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	42'
128	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	40'
129	3/P - 50A	1" SEALTITE	4 11/16" SQ.	3 PH-4W - 50A	50'
130	2/P - 30A	1/2" SEALTITE	S/G BELL	L6 - 30R	7'
131	2/P - 30A	1/2" SEALTITE	S/G BELL	L6 - 30R	10'
132	2/P - 30A	1/2" SEALTITE	S/G BELL	L6 - 30R	12'
133	S/P - 20A	1/2" SEALTITE	4" SQ.	I.G. DUPLEX	56'
134	2/P - 30A	1/2" SEALTITE	S/G FD	R.S. - 3753	20'
135	2/P - 30A	1/2" SEALTITE	S/G FD	R.S. - 3753	20'
136	2/P - 30A	1/2" SEALTITE	S/G FD	R.S. - 3753	46'
137	S/P - 20A	1/2" SEALTITE	2/G FS	2 - DUPLEX	50'
138	S/P - 20A	1/2" SEALTITE	2/G FS	2 - DUPLEX	50'
139	S/P - 20A	1/2" SEALTITE	S/G FS	DUPLEX	22'
140	S/P - 20A	1/2" SEALTITE	S/G BELL	I.G. DUPLEX	45'

**COMPUTER CIRCUIT LOG**

<b>CAT. NO. / DESCRIPTION</b>	<b>CIRCUIT / AMP</b>	<b>CABLE TYPE</b>	<b>BOX</b>	<b>DEVICE</b>	<b>LENGTH</b>
141	2/P - 50A	6/3 BD		14 - 50R	35'
142	2/P - 15A	12/2 SO	CORD CAP	5 - 15R	38'
143	2/P - 15A	12/2 SO	CORD CAP	5 - 15R	38'
144	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	14'
145	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	14'
146	S/P - 20A	12/3 BD	4" SQ.	DUPLEX	50'