d sash

15 Terra cotta

at daily, weekly or semi-monthly periods as is found prac-

Voucher check.-We have found the voucher check system to be the most convenient. The voucher is made in quadruplicate at the construction office on the job and the approval of the owner's representative is often indicated on all copies of the voucher. The check, or original voucher goes to the vendor, the duplicate to our general office for our records, the triplicate is kept as the job record and the quadruplicate is the "owner's copy," which is forwarded to the vendor with original to be receipted by him and returned. At intervals we furnish the owner with statement showing vouchers paid and receipted vouchers attached.

Since the major purpose of cost accounting is to give an adequate basis for future estimating, it is important that so far as practicable the form of cost accounting shall follow the form of estimate. This is not practicable to the last subdivision of each of the general accounts, but sufficient to permit intelligent use of all cost figures. With such figures it is possible to compare not only final costs, but costs at any stage of the job, with the original estimated cost for that portion of the contract. We frequently divide our estimate by floors, in the case of a many-storied building, in order to have a check upon quantities and upon expenditure at several stages of the work.

Distribution of Accounts

We use the decimal system of classification of accounts. The classifications number 100 to 600 inclusive and 900 are for our general books, which embrace the assets and liabilities, revenues and income accounts The general (we will omit these in our discussion). distribution is under the following headings:-

710	Excavation	810	Field overhead
720	Caissons	820	Extra work
730	Footings	830	Subcontracts
740	Trench and wall	840	(Subcontract) extra
750	Concrete and fireproofing		work
	Masonry	850	
770	Carpentry	860	
780		870	Repair contracts
790		880	
800	Plant expense	890	Company expense (not chargeable to owner)
	The sub-divisions of headi	ngs	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN

items labor (1), material (2), and liability insurance (3). Thus labor in excavation would be 711, material in excavation 712 and liability insurance in excavation 713. A further division of the various kinds of labor and materials is made. The following classifications illustrate this point:-

Labor—711	Material—712
711.01 Digging (general)	712.01 Lumber
711.02 Digging sub-basement	712.02 Underpinning adjac-
711.03 Sheeting and bracing	ent buildings
banks	712.03 Rings (steel)
711.04 Shoring adjacent	712.04 Cement

For convenience we have listed the charges of labor and material in the order they usually appear in building con-

buildings

struction costs:—	
Labor	Material
.01 Digging (general)	.01 Lumber
.02 Digging sub-basement	.02 Underpinning adjacent
.03 Sheeting and bracing	buildings
banks	.03 Rings (steel)
.04 Shoring adjacent build-	.04 Cement
ings	.05 Sand
.05 Underpinning adjacent	.06 Stone
buildings	.07 Brick
.06 Pumping	.08 Wall tie and inserts
.07 Back-filling and grading	.09 Steel (structural)
.08 Cutting old footings	.10 Steel (reinforcing)
.09	.11 Nails and wire
.10 Placing lagging and rings	.12 Clamps, purchased or
.11 Ventilating	rented
.12 Mixing and placing con-	
crete	.14 Protection (lumber, etc.)
CICO	

.2

14	Building	iorms	exterior				
	columns				Frames		
15	Building	forms	interior	.30	Interior	trim	
	columns			.35	Coping		
16	Building	forms s	pandrels				
23	Lay brick						
26	Bend stee	l					
35	Set cut s	tone					
14	Fit and h	ang doo	ors				
-0	Tiplood of	nd hone	llo mate				

Should charges be made in connection with concrete and fireproofing under subdivision 750, they would follow the same order as in excavation:-

751.12	(Labor) mixing and	placing	concrete
752.04	(Material) cement		
753	Lighility insurance		

Or, carpentry, sub-division 770:-

801 Excavation

813-Office expense

ing

.3 Telephone

.4 Telegraph

813.1 Rent, light and heat .2 Stationery and print-

.5 Postage and express

805 Concrete and fireproofing

802 Caissons

803 Footings

804 Sawmill

771.44 (Labor) fit and hang doors (Material) frames and sash Liability insurance 773

Classification of Plant Expense

Sub-division 800 covers plant expense and conforms with the sub-classification of the 700 accounts as much as prac-The following are the headings under 800:ticable.

> 807 808

806 Masonry

801.6 Repairs

809 General (items charged

to general equipment)

xpenses and enplies

ervice

es

A further typical subdivisi	on of the accounts under this
heading is:	
801 Excavation	801.3 Equipment on charge
801.1 Transportation (of	and credit basis
equipment plant)	801.31 Labor
801.2 Erection of equipment	801.32 Material
801.21 Labor	801.4 Rental of equipment
801.22 Material	801.5 Fuel, lubricants and
	nower.

Should charges to plant in connection with concrete and fireproofing be made, they would be charged as 805 with divisions shown above.

Field Overhead

Engineering ex Plans, detail
gineering sup Photographs
Engineering s
Architects' fe
A CHERRY

- .6 Rent on adding machine and typewriters
 - Furniture
 - .9 Miscellaneous office ex-

pense, towels, etc.