



United States  
Department of  
Agriculture

Soil  
Conservation  
Service

West National Technical Center  
511 N.W. Broadway, Room 514  
Portland, Oregon 97209-3489

August 22, 1984

WEST NTC BULLETIN NO. W200-4-4

SUBJECT: ECON - DAMAGE SCHEDULE

Purpose To transmit damage schedule for concrete-sided commercial and industrial buildings.

Expiration Date. After contents have been noted, but file attachment for future reference.

The California Planning Staff is currently evaluating flood damages in Upper Penitencia Creek Watershed in San Jose, California. The area contains many new concrete commercial and industrial buildings. While they could get good data on the contents, they didn't have good information on flood damage to the building. Ken Murray, economist, contracted with BARBARICH Construction Firm, for a firsthand, accurate estimate. Ken was most impressed with the "thoroughness" of Mr. Barbarich, an insurance damage specialist, in obtaining the data. We hope this will be of value next time you are faced with evaluating damage to a concrete-sided building. File the attached schedule and keep for future reference.

ROBERT CALDWELL  
Head, ESSE

Attachment

DIST:  
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The Soil Conservation Service  
is an agency of the  
Department of Agriculture

SCS-AS-1  
10-79



# BARBARICH CONSTRUCTION INC.

License #452066

Insurance Damage Specialist  
24 HOUR EMERGENCY SERVICE

August 3, 1984

U.S.D.A. Soil Conservation  
2828 Childs Road  
Davis, CA 95616

Attention: Contracting Officer

Dear Sir:

The following is my report as to relating flood depths to damages in commercial and industrial buildings:

ESTIMATE: LABOR & MATERIAL ON FLOOD - 1" DEPTH

INDUSTRIAL BUILDING 160' x 60' x 21'

Total square footage - 9600 sq. ft.

In the event of flood occurrence, exterior damage would be minimal. The exterior of the building and surrounding parking lot would need to be washed and cleaned with no material involvement.

Cleaning labor for the above size building:

40 man hours @ \$25.00 per hour,.....\$ 1,000.00

Interior cleaning, including washing concrete slab and drain, (no structural damage to the building),

Labor: 20 man hours @ \$25.00 per hour,.....\$ 500.00

Interior damage will be in the office building and bathrooms. This building has 8 bathrooms, (8' x 10' x 8'):

R/R 12" x 12" linoleum tile in 8 bathroom, 640 sq. ft.

material, commercial grade vinyl tile @ \$1.25

per sq. ft. ....\$ 800.00

glue for the tile, 10 gallons @ \$16.00 per gal.,\$ 160.00

Labor to remove existing tile, 640 sq. ft. @ \$.25 per sq. ft.,.....\$ 160.00

Labor for installation of new tile, 640 sq. ft. @

\$.50 per sq. ft.,.....\$ 320.00

1200 SQ. FT. OFFICE

Remove existing commercial grade carpet, (glue down),

134 sq. yards @ \$2.50 per sq. yard,.....\$ 335.00

1200 SQ FT. OFFICE (CONTINUED)

Replace 134 sq. ft. of commercial carpet, medium grade, @ \$12.00 per sq. yard,.....\$	1,608.00
10 gallons of glue for installation of commercial grade carpet @ \$16.00 per gallon,.....\$	160.00
Labor for carpet installation, 134 sq. yds. @ \$2.50 per sq. yd.,.....\$	335.00
1 dumpster for debris removal.....\$	160.00
<b>SUBTOTAL</b>	<b>\$ 5,538.00</b>
<b>10% OVERHEAD</b>	<b>553.80</b>
<b>GRAND TOTAL</b>	<b>\$ 6,091.80</b>

ESTIMATE: LABOR & MATERIAL ON FLOOD - 1' DEPTHINDUSTRIAL BUILDING 160' x 60' x 21'

Exterior damage will occur on surrounding parking lot and portions of the building.

Washing and cleaning of exterior of the building:

Labor, 60 man hours @ \$25.00 per hour,.....\$	1,500.00
Sand blasting of the building, 1' - 2' in height:	
Material,.....\$	280.00
Labor, 8 man hours @ \$35.00 per hour,.....\$	280.00
Interior cleaning: slab and drains; labor, 40 man hours @ \$25.00 per hour,.....\$	1,000.00

BATHROOMS

R/R tile, 640 sq. ft. @ \$1.25 per sq. ft.,.....\$	800.00
10 gallons of glue @ \$16.00 per gallon,.....\$	160.00
Labor for removing existing tile, 640 sq. ft. @ \$.25 per sq. ft.,.....\$	160.00
Installation of new tile, 640 sq. ft. @ \$.50 per sq. ft.,.....\$	320.00
Marlite repair on bathroom walls, 4' in height, 1,152 sq. ft.: material @ \$1.50 per sq. ft.,.....\$	1,728.00
30 gallons of glue @ \$16.00 per gallon,.....\$	480.00
Labor for Marlite installation, 8 man hours for each bathroom, a total of 64 man hours @ \$35.00 per hr.,..\$	2,240.00
Fixture cleaning is included in floor cleaning.	

OFFICE AREA 1200 SQ. FT.

Remove existing commercial grade carpet, 134 sq. yds. @ \$2.50 per sq. yd.,.....\$	335.00
Replace carpet, 134 sq. yards @ \$12.00 per sq. yd.,..\$	1,608.00
Glue for new carpet, 10 gallons @ \$16.00 per gal.,..\$	160.00
Labor for carpet installation, 134 sq. yards @ \$2.50 per sq. yd.,.....\$	335.00
Sheetrock repair, 1' in height,:	
15 sheets of sheetrock @ \$7.50 per sheet,.....\$	112.50
Tape, 3 rolls @ \$6.00 per roll,.....\$	18.00

OFFICE SPACE 1200 SQ. FT. (CONTINUED)

Drywall compound, 10 gallons @ \$2.50 per gallon,....\$	25.00
Labor : hang, tape, and texture, 16 man hours @ \$35.00 per hour,.....\$	560.00
Seal and paint, 1,920 sq. ft. of walls @ \$.38 per sq. ft.,.....\$	729.60
Debris removal, 2 dumpsters @ \$160.00 each,.....\$	320.00
<b>SUBTOTAL</b>	<b>\$ 13,151.10</b>
<b>10% OVERHEAD</b>	<b>1,315.11</b>
<b>GRAND TOTAL</b>	<b>\$ 14,466.21</b>

ESTIMATE: LABOR & MATERIAL ON FLOOD - 3' DEPTH

Exterior cleaning and washing wall, 80 man hours @ \$25.00 per hour,.....\$	2,000.00
Sand blasting of the building:	
Material.....\$	420.00
Labor, 12 man hours @ \$35.00 per hour,.....\$	420.00
Interior cleaning of the slab and drains; labor, 60 man hours @ \$25.00 per hour,.....\$	1,500.00

BATHROOMS- 640 SQ. FT.

R/R tile, 640 sq. ft. @ \$1.25 per sq. ft.,.....\$	800.00
10 gallons of glue (to install tile), @ \$16.00 per gallon,.....\$	160.00
Labor for removing existing tile, 640 sq. ft. @ \$.25 per sq. ft.,.....\$	160.00
Installation of new tile, 640 sq. ft. @ \$.50 per sq. ft.,.....\$	320.00
Marlite repair on bathroom walls, 4' in height, 1,152 sq. ft.: material @ \$1.50 per sq. ft.,.....\$	1,728.00
30 gallons of glue @ \$16.00 per gallon,.....\$	480.00
Labor for Marlite installation, 8 man hours for each bathrrom, a total of 64 man hours @ \$35.00 per hr.,..\$	2,240.00

OFFICE AREA 1200 SQ. FT.

Remove existing commercial grade carpet, 134 sq. yards @ \$2.50 per yard,.....\$	335.00
Replace carpet, 134 sq. yards @ \$12.00 per sq. yd,..\$	1,608.00
10 gallons glue @ \$16.00 a gallon,.....\$	160.00
Labor for carpet installation, 134 sq. yards @ \$2.50 per sq. yard,.....\$	335.00
Sheetrock repair of the interior:	
50 sheets of sheetrock @ \$7.50 per sheet,.....\$	375.00
10 rolls of tape @ \$6.00 per roll,.....\$	60.00
30 gallons of drywall compound.....\$	75.00
Labor: hang, tape, and texture - 48 man hours @ \$35.00 per hour,.....\$	1,680.00
Seal and paint, 1,920 sq. ft. @ \$.38 per sq. ft.,..\$	729.60

ESTIMATE: LABOR & MATERIAL ON FLOOD - 3' DEPTH

OFFICE AREA 1200 SQ. FT. (CONTINUED)

Removal of exterior entry door, 30 x 6'8" door, (pretty old, buckled under 3' of water level:	
Material.....	\$ 600.00
Labor for door installation, 6 man hours @ \$35.00 per hour,.....	\$ 210.00
Seal and paint exterior door,.....	\$ 150.00
Adjust 8 rolling doors, 4 hours labor per door for a total of 32 hours labor @ \$35.00 per hour,.....	\$ 1,120.00
Outside landscaping, L/M.....	\$ 1,200.00
<b>SUBTOTAL</b>	<b>\$ 18,865.60</b>
<b>10% OVERHEAD</b>	<b>1,886.56</b>
<b>GRAND TOTAL</b>	<b>\$ 20,752.16</b>

Thank you for the opportunity to serve you.

ESTIMATED BY:



GEORGE BARBARICH  
PRESIDENT

GB:ke

ALBERTSON'S MARKETTOTAL SQUARE FOOTAGE - 23,468ESTIMATE: LABOR AND MATERIAL ON FLOOD - 1" DEPTH

Exterior and interior cleaning of the building, 80 man hours @ \$25.00 per hour,.....	\$	2,000.00
Interior damage will occur on linoleum tile:		
Removal of existing tile, 22,072 sq. ft. @ \$.25 per sq. ft.,.....	\$	5,518.00
New 12" x 12" tile, total of 22,072 sq. ft. @ \$1.25 per sq. ft.,.....	\$	27,590.00
120 gallons of glue for tile installation @ \$16.00 per gallon,.....	\$	1,920.00
Installation labor on tile, 22,072 sq. ft. @ \$.50 per sq. ft.,.....	\$	11,036.00
Debris removal, 2 dumpsters @ \$160.00 each,.....	\$	320.00
<b>SUBTOTAL</b>	<b>\$</b>	<b>48,384.00</b>
<b>10% OVERHEAD</b>		<b>4,838.40</b>
<b>TOTAL</b>	<b>\$</b>	<b>53,222.40</b>

Note - This estimate includes 2 bathrooms and break room.

ESTIMATE: LABOR AND MATERIAL ON FLOOD - 1' DEPTH

Interior and exterior cleaning, 100 man hours @ \$25.00 per hour,.....	\$	2,500.00
Exterior sand blasting:		
Material.....	\$	600.00
Labor, 16 man hours @ \$35.00 per hour,.....	\$	560.00
Interior damage:		
Removal of existing 12" x 12" tile, 22,072 sq. ft. @ \$.25 per sq. ft.,.....	\$	5,518.00
New 12" x 12" tile, 22,072 sq. ft. @ \$1.25 per sq. ft.,.....	\$	27,590.00
120 gallons of glue for tile installation @ \$16.00 per gallon,.....	\$	1,920.00
Installation labor for tile, 22,072 sq. ft. @ \$.50 per sq. ft.,.....	\$	11,036.00
Sheetrock repair:		
40 sheets of sheetrock @ \$7.50 per sheet,.....	\$	300.00
12 rolls of tape @ \$6.00 per roll,.....	\$	72.00
Labor, 30 man hours @ \$35.00 per hour,.....	\$	1,050.00
Painting:		
Material, 20 gallons paint @ \$14.00 per gallon,.....	\$	280.00
Labor, 16 man hours @ \$35.00 per hour,.....	\$	560.00
Debris removal, 3 dumpsters @ \$160.00 each,.....	\$	480.00
<b>SUBTOTAL</b>	<b>\$</b>	<b>52,466.00</b>

ESTIMATE: LABOR & MATERIAL ON FLOOD - 1' DEPTH

SUBTOTAL (BROUGHT FORWARD FROM PREVIOUS PAGE)	\$	52,466.00
10% OVERHEAD		<u>5,246.60</u>
GRAND TOTAL	\$	<u><u>57,712.60</u></u>

ESTIMATE: LABOR & MATERIAL ON FLOOD - 3' DEPTH

Interior and exterior cleaning, 120 man hours @ \$25.00 per hour,.....	\$	3,000.00
Exterior sand blasting:		
Labor, 24 man hours @ \$35.00 per hour,.....	\$	840.00
Material,.....	\$	700.00
Interior damage to 12" x 12" tile:		
Removal of existing tile, 22,072 sq. ft. @ \$.25 per sq. ft.,.....	\$	5,518.00
New tile, 22,072 sq. ft. @ \$1.25 per sq. ft.,.....	\$	27,590.00
120 gallons of glue @ \$16.00 per gallon,.....	\$	1,920.00
Installation of new tile, 22,072 sq. ft. @ \$.50 per sq. ft.,.....	\$	11,036.00
Sheetrock repair:		
120 sheets of sheetrock @ \$7.50 per sheet,.....	\$	900.00
34 rolls of tape @ \$6.00 per roll,.....	\$	204.00
Labor, 100 man hours @ \$35.00 per hour,.....	\$	3,500.00
Painting:		
Material, 20 gallons @ \$14.00 per gallon,.....	\$	280.00
Labor, 16 man hours @ \$35.00 per hour,.....	\$	560.00
Telephone repair.....	\$	300.00
Freezer repair and cleaning.....	\$	600.00
Debris removal, 3 dumpsters @ \$160.00 each,.....	\$	480.00
Landscaping.....	\$	<u>2,500.00</u>
SUBTOTAL	\$	59,928.00
10% OVERHEAD		<u>5,992.80</u>
GRAND TOTAL	\$	<u><u>65,920.80</u></u>

Thank you for the opportunity to serve you.

ESTIMATED BY:

  
 GEORGE BARBARECH  
 PRESIDENT

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