

Adams Township, MI

# CHAMPION COPPER CO.

Draughtsman \_\_\_\_\_

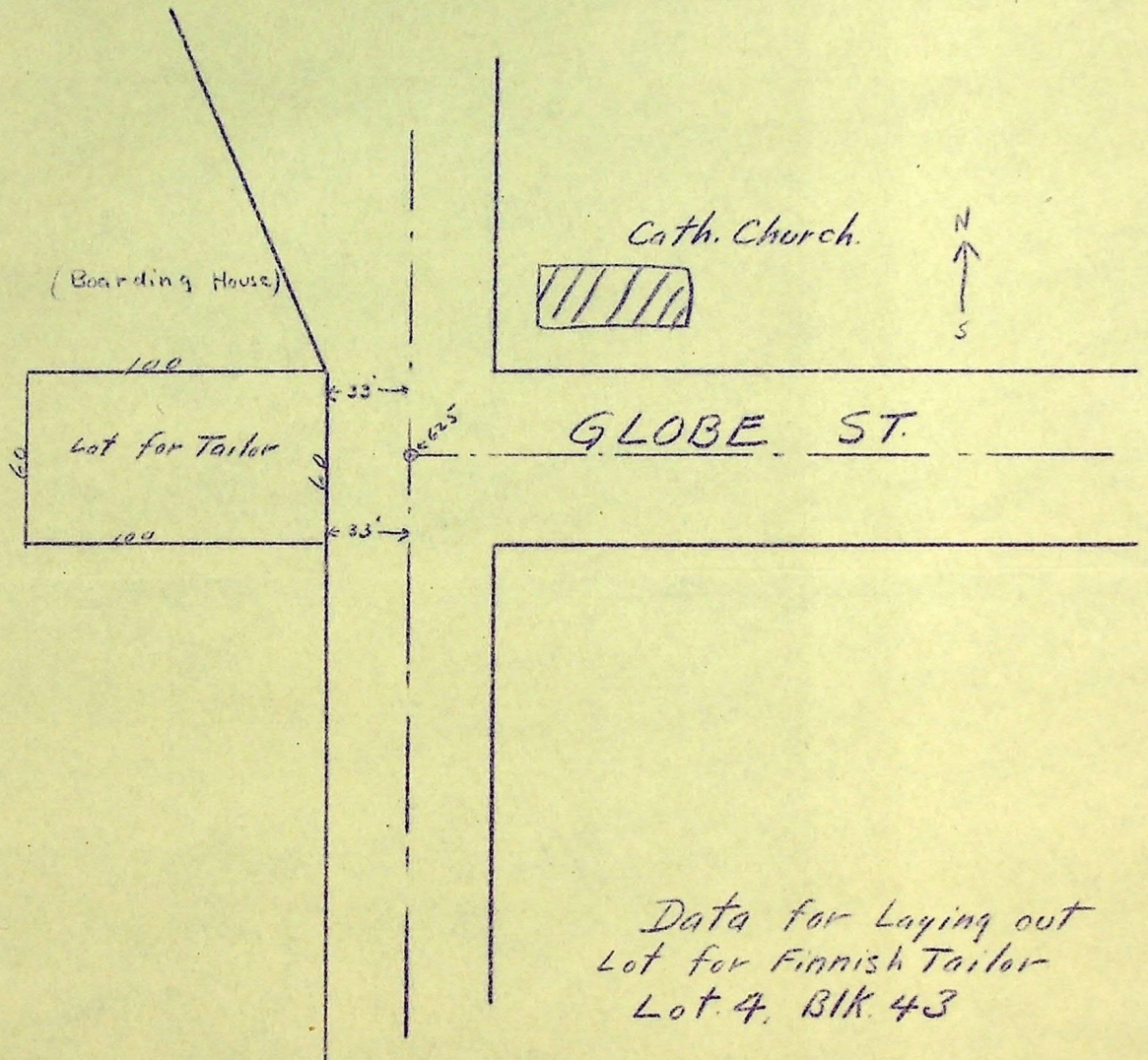
Sketch No. \_\_\_\_\_

## DRAWING ROOM SKETCH.

Examiner H. O. M.

To be returned when Work is Finished.

Painesdale Mich., 9-27-10 1910



# CHAMPION COPPER CO.

Draughtsman H. M. ...

Sketch No. \_\_\_\_\_

## DRAWING ROOM SKETCH.

Examiner \_\_\_\_\_

Comp book "50 page 58"

To be returned when Work is Finished.

Saundersdale Mich., Apr. 27 1909

Estimate for Improving Road North of Store  
(See Drawing No 1434.)

### 1 Large Retaining Wall (Shown by Green Lines)

a. Concrete:-	
188 yds Excavation @ 25¢	\$ 47.00
153 " Concrete " 5.00	765.00
Total	<u>\$ 812.00</u>

b. Rubble:-	
Excavation	47.00
153 yds Rubble Wall @ 4.00	612.00
Total	<u>659.00</u>

c. Dry Wall:-	
Excavation	47.00
153 yds Wall @ 3.00	459.00
Total	<u>506.00</u>

### 2 Small Wall (Shown by Yellow Lines)

a. Concrete:-	
80 Yds Excavation @ 25¢	20.00
86 " Concrete " 5.00	430.00
Total	<u>450.00</u>

b. Rubble:-	
Excavation	20.00
86 Yds Rubble @ 4.00	344.00
Total	<u>364.00</u>

c. Dry Wall	
Excavation	20.00
86 Yds Dry Wall @ 3.00	258.00
Total	<u>278.00</u>

### 3. 84 Excavation alone, To slope of 1 1/2 : 1 (Shown by Vermillion Lines)

517 yds @ 50¢	<del>\$ 258.50</del>
554	\$ 277.00



Adams Township, MI

# CHAMPION COPPER CO.

Sketch No. \_\_\_\_\_

## DRAWING ROOM SKETCH.

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Draughtsman \_\_\_\_\_

*H. T. Mercer*

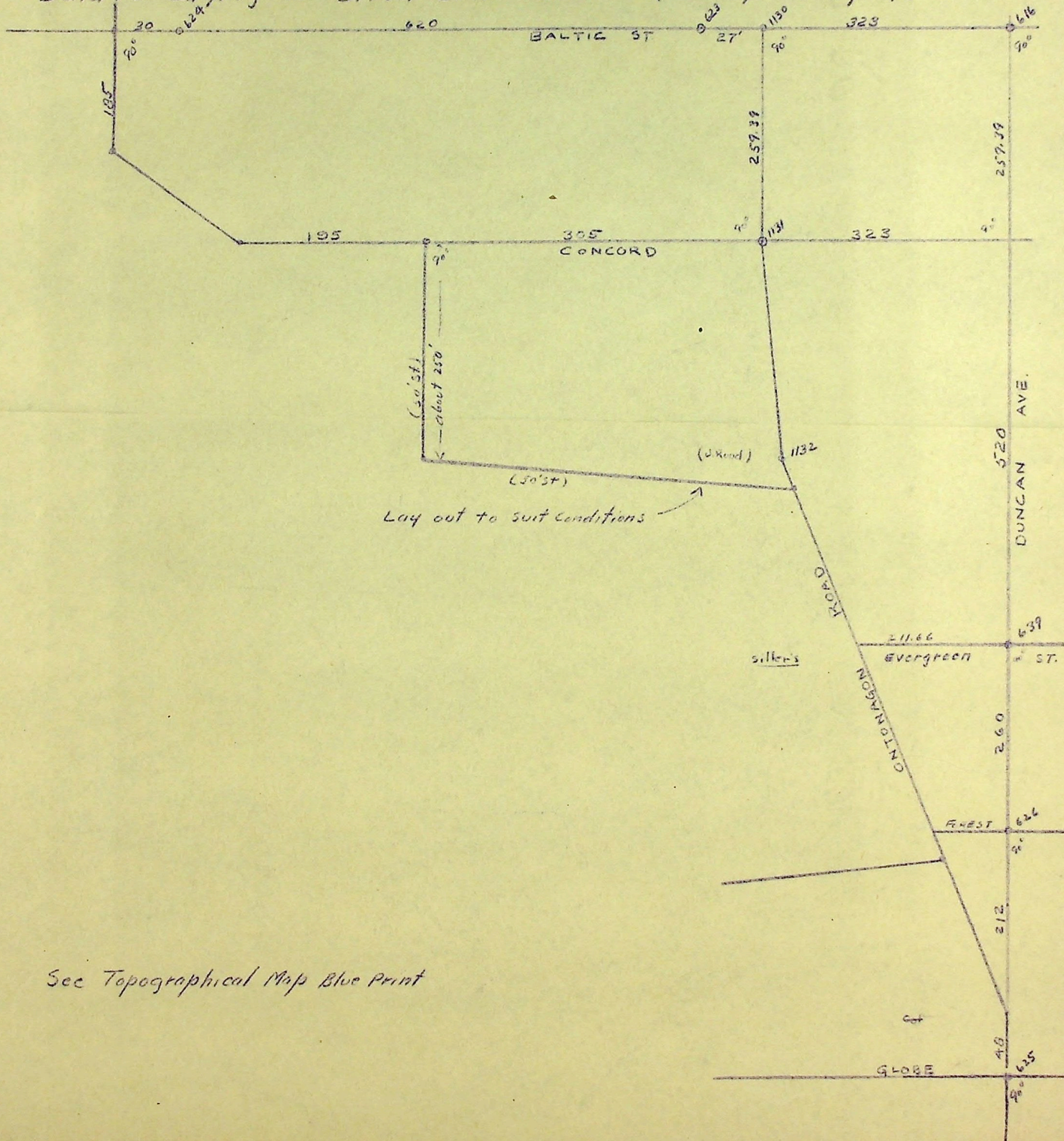
Examiner \_\_\_\_\_

Painesdale Mich.,

*Sept. 27*

19 *19*

*Data for Laying out Street Center Lines. (See Comp. Book 54 p. 27)*



*Lay out to suit conditions*

*See Topographical Map Blue Print*

Adams Township, MI

# CHAMPION COPPER CO.

Draughtsman H. Mercer

Sketch No. \_\_\_\_\_

## DRAWING ROOM SKETCH.

Examiner \_\_\_\_\_

Comp. book No. 50, Page 58

To be returned when Work is Finished.

Painesdale Mich., Apr. 27 1909

Estimate for Improving Road North of Store.  
(See Drawing No. 1984.)

### 1. Large Retaining Wall, (Shown by Green Lines)

a. Concrete:-

188 yds. Excavation @ 25¢ \$ 47.00

153 " Concrete " \$5.00 765.00

Total \$ 812.00

b. Rubble:-

Excavation 47.00

153 yds. Rubble Wall @ \$4.00 612.00

Total 659.00

c. Dry Wall:-

Excavation 47.00

153 yds Wall @ \$3.00 459.00

Total 506.00

### 2. Small Wall, (Shown by Yellow Lines)

a. Concrete:-

80 Yds Excavation @ 25¢ 20.00

86 " Concrete " 5.00 430.00

Total 450.00

b. Rubble:-

Excavation 20.00

86 Yds. Rubble @ \$4.00 344.00

Total 364.00

c. Dry Wall

Excavation 20.00

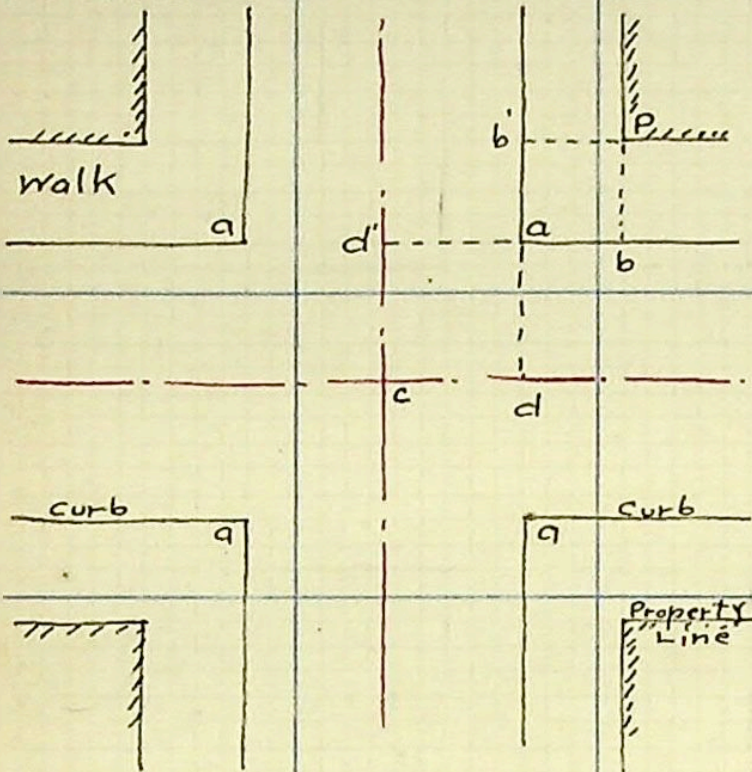
86 yds. Dry Wall @ \$3.00 258.00

Total 278.00

### 3. By Excavation alone, To slope of 1 1/2 : 1 (Shown by Vermillion Lines)

554 yds. @ 50¢ \$ 277.00

## Street Intersection Grades.



Slope of Sidewalk (Transverse) =  
 $\frac{1}{4}$ " per Ft.

Slope of Parking, if any, = 1"  
 per Ft., or  $\frac{1}{2}$ " per Ft.

1. For Slopes of 3% or Less Grades Should Continue Unbroken over Inter-Section.
2. Over 3%, Streets Should be Flattened to 3% between Curb Lines at Intersections.
3. Very Flat Streets may have Level Intersections.
4. Establish Grade at C from Profiles.
5. Compute Grades at d & d' and take mean for Grade at 'a'
6. " " " b & b' from 'a' & Slope of Curbs.
7. " " " P from b & b' and take mean
8. Above may be varied to suit Conditions. Profiles of  $\phi$  Lines of Streets should be made and carefully studied before Establishing Corner Grades.

Taken from Baker's "Roads & Pavement"  
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