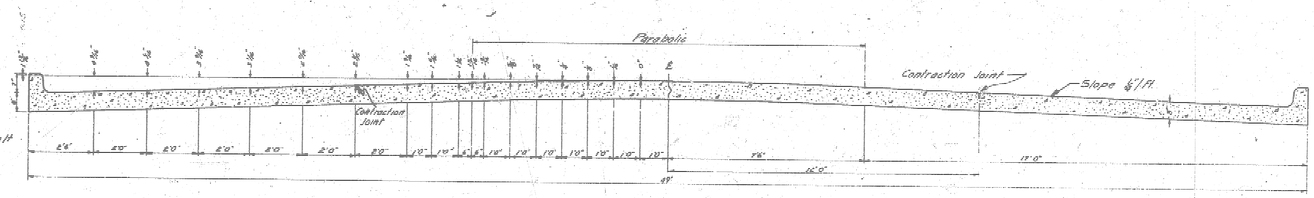
# HYDRAULIC STREET

## FROM S.L. LOT 157, HYDRAULIC AVE., BURR'S ADDITION TO DOUGLAS AVE.

## PROJECT NO. C17-25



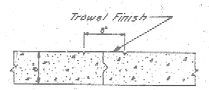

TYPICAL SECTION

No Scale

CONTRACTION JOINT

No Scale

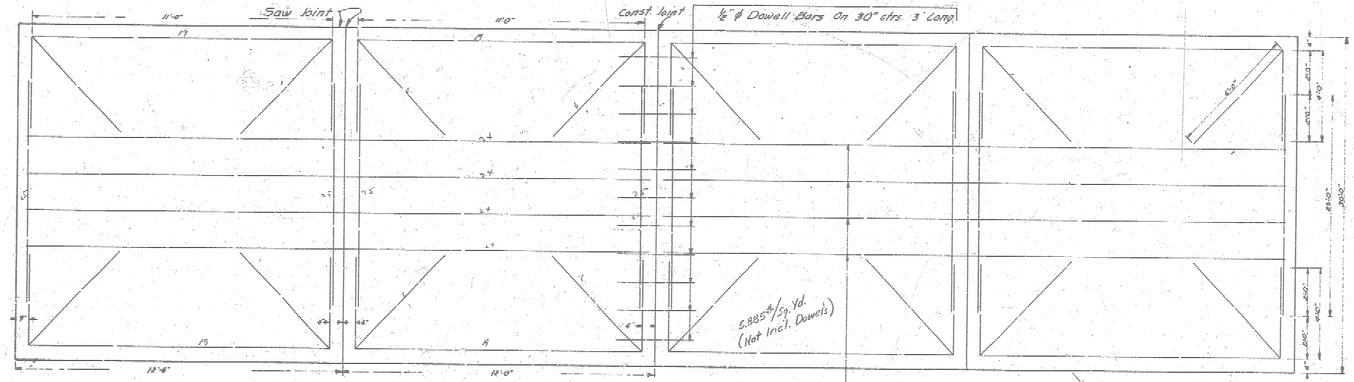
To Be Used At 30' Intervals Except Where An Expansion Joint Is Used




℄ MARKER DETAIL

No Scale

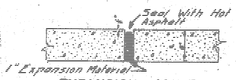
Place Full Length of Job




STEEL PATTERN

No Scale

Use ⅝ ϕ Bars Unless Otherwise Specified




EXPANSION JOINT

No Scale

To Be Used At 120' Intervals

DONALD W. HOSTETTER LICENSED 1577 KANSAS PROFESSIONAL ENGINEER

B. E. SMITH LICENSED 436 KANSAS PROFESSIONAL ENGINEER

1/9

107.72 T.B.M. Iron in Thim. @ E. Hydraulic & Kellogg
108.09 B.M. S.E. Cor. 3'X7' Conc. Step, E. si. bldg. @ 453 S. Hydraulic
105.25 T.B.M. Iron in Thim. @ E. Hydraulic & Lewis West
Chaining N. on Base Lines 25' Lt. & 24' Rt. of Iron @ Kellogg & Hydraulic.

SCALE: 1" = 20'

**EXCAVATION**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PROP. CUT | 1257.7 | CITY CUT | 353.9 | | PROP. FILL | 1007.3 | CITY FILL | 115.8 |
| PLUS 10% | 125.8 | PLUS 10% | 35.4 | R.V.I. NO V.C. | PLUS 10% | 100.7 | PLUS 10% | 11.5 |
| TOTAL | 1383.5 C.Y. | TOTAL | 389.3 C.Y. | | TOTAL | 1108.0 C.Y. | TOTAL | 126.8 C.Y. |

-0.1316% WK. 0.11'

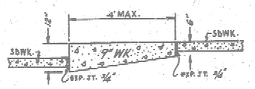
BEG. REMOVAL AT STA. 1+54 E. OF SECTION LINE
" " 1+56 W.
MATCH EXIST. PAVT. : SAW. JOINT.

-0.3055% WK. 0.11'

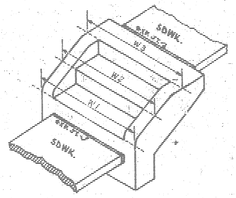
-0.8185% WK. 0.11'

-01% WK. 0.11'

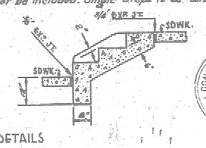
NOTE TO CONTR. & ENGR:
FIELD ENGINEER TO DETERMINE NECESSARY DRIVE, WALK, RET. WALL AND STEP REM. & REPLACE BACK OF PROPERTY LINES.




SINGLE STEP CONSTRUCTION DETAIL




NOTE TO CONTRACTOR & FIELD ENGINEER:
Conc. Steps to be bid on unit price per lin. ft. for Conc. Steps. Method of measurement will be accumulated length of W1, W2 & W3 as shown on detail. Where only one riser is required 9" Walk will be used and basis of payment will be on sq. ft. of 9" Walk. Field Engr. to determine tread & riser dimensions (See Sheet #8) for various step arrangements. Rem. of Steps to be measured in same manner as described for new steps. Single Steps will not be included. Single Steps to be considered as Wk. Rem.




TYPICAL STEP CONSTRUCTION DETAILS

CONLOW W. HOSTETTER LICENSED 1577 KANSAS PROFESSIONAL ENGINEER

B. E. SMITH LICENSED 456 KANSAS PROFESSIONAL ENGINEER

2/9

# HYDRAULIC

S.L. LOT 157, HYDRAULIC AVE., BURR'S ADDITION TO S.L. DOUGLAS AVE.

8" CONC. & CB.

CITY OF WICHITA, KANSAS.

B. E. SMITH — CITY ENGINEER
JULY 1957 — PROJ. NO. C17-28

106.39 T.B.M. Iron in Thim. ℄ Hydraulic ℄ S. of Waterman intersection. Chaining N. on Base Lines 25' Lt. & 24' Rt. of Iron @ Kellogg ℄ Hydraulic.

SCALE: 1" = 20'

-0.1995% WK. 0.11'

P.V.I. ℄ 52.4' V.C. CB. NO V.C.

+0.638% WK. 0.11'

P.V.I. 50' V.C. 6.29

+0.1% WK. 0.11'

℄ P.V.C.

℄ P.V.T.

P.V.C.

P.V.T.

LEWIS ST.

MATCH

HYDRAULIC

PROP. 18" R.C.P.

℄ Constr. Full Wk. 2

SECTION LINE

AVE.

10" H.P. GAS

WATERMAN

GILTNER DR.

MEKNIGHT DR.

MATCH

FIELD ENGINEER & CONTRACTOR NOTE: TAPER NEW CB. HT. FROM 4' WHERE JOINING EXISTING 4' C.&G., TO STD. HT. AT RAD. PT. - TO BE BID AS STD. C.&G.

-0.2185% WK. 0.11'

-0.3% WK. 0.11'

P.V.I. ℄ 52.4' V.C. CB. NO V.C.

+0.6099 WK. 0.11'

+0.1204% WK. 0.11'

P.V.I. 50' V.C. 6.35

FIELD ENGR. & CONTR. NOTE: CONSTR. TRANSITION SECTION OF C.&G. TO MATCH EXIST. 4' CB. AND STD CB. (BOTH SIDES) TO BE BID AS STD. C.&G.

TYPICAL RETAINING WALL

Contr. & Exp. Jts. to match Jts. in Sdwk.

Unit Price Bid to include necessary Excavation.

FIELD ENGR. & CONTR. NOTE: No existing retaining walls to be removed except where deemed necessary by FIELD ENGR. New Retaining Walls to be constructed as determined by FIELD ENGR.

INTERSECTION GRADE DETAIL FOR GILTNER — MEKNIGHT

CONTRACTOR NOTE: ALL EXC. & COMP. FILL TO BE CALCULATED ON BASIS OF PLAN GRADE EXCEPT WHERE CHANGE IN GRADE IS ORDERED BY ENGINEER.

3/9

# HYDRAULIC

S.L. LOT 157, HYDRAULIC AVE., BURR'S ADDITION TO S.L. DOUGLAS AVE.

8" CONC. & CB.

CITY OF WICHITA, KANSAS.

B. E. SMITH — CITY ENGINEER

PROJ. NO. C17-25

107.72 T.B.M. Iron in Thim. W.L. Hydraulic & E. English W.
Base Line changed from 25' Lt. to 35' Lt. at Sta. 13+37.3
" " " 24' Rt. to 25' Rt. " " 13+24.45

SCALE: 1" = 20'

+0.1%

+0.841%

FIELD ENGR. TO DETERMINE WK. REM. & REPLACE ON W. SIDE IN THIS BLOCK
REMOVE BROKEN WALK & WALK NOT ON SUITABLE GRADE.

P.V.I. NO V.C.

+0.1%

ST.

MATCH

WATERMAN

HYDRAULIC

AVE.

SECTION LINE

ENGLISH

ST.

NOTE TO FIELD ENGR. & CONTRACTOR:
FIELD ENGR. TO DETERMINE EXACT REM. LINE IN FIELD.
REM. AREA SIMILAR AS SHOWN TO REDUCE CROWN TO NEW GUTT.
REM. ASPH. SURF. ONLY WHERE BASE IS LOW ENOUGH TO ALLOW
SUFFICIENT ASPH. COVER; ASPH. TO BE REPLACED ON TON BASIS.
REPLACE BASE AS REQUIRED WITH 6" CONC. CONC. BID AS 6" CONC. PAVT.

NOTE TO CONTRACTOR & FIELD ENGINEER:
The City Engineer is to approve schedule of work. The intersection of Waterman is to be paved with Hi-Early Cement and construction of this intersection is to be accomplished in as short time as possible and opened to traffic as soon as concrete is sufficiently cured. Hi-early cement used is to be incidental to the project.

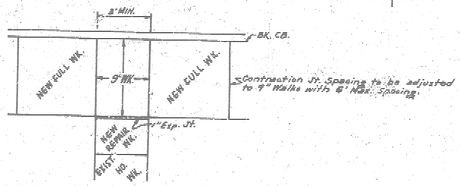
+0.8325% WK. 0.11'

+0.1% WK. 0.11'

+0.12%

TABLE OF PROPORTIONAL RISERS AND TREADS

| RISER | TREAD |
|---|---|
| 4" | 17" |
| 4 1/8" | 16 1/2" |
| 4 1/4" | 16" |
| 4 3/8" | 15 1/2" |
| 4 1/2" | 15" |
| 4 5/8" | 14 1/2" |
| 4 3/4" | 14" |
| 4 7/8" | 13 1/2" |
| 5" | 13" |
| 5 1/8" | 12 1/2" |
| 5 1/4" | 12" |
| 5 3/8" | 11 1/2" |
| 5 1/2" | 11" |
| 5 5/8" | 10 1/2" |
| 5 3/4" | 10" |
| 5 7/8" | 9 1/2" |
| 6" | 9" |
| 6 1/8" | 8 1/2" |
| 6 1/4" | 8" |
| 6 3/8" | 7 1/2" |
| 6 1/2" | 7" |
| 6 5/8" | 6 1/2" |
| 6 3/4" | 6" |
| 6 7/8" | 5 1/2" |
| 7" | 5" |




TYPICAL WALK CONSTRUCTION AT HOUSE
APPROACH WALKS ABUTTING FULL WALKS

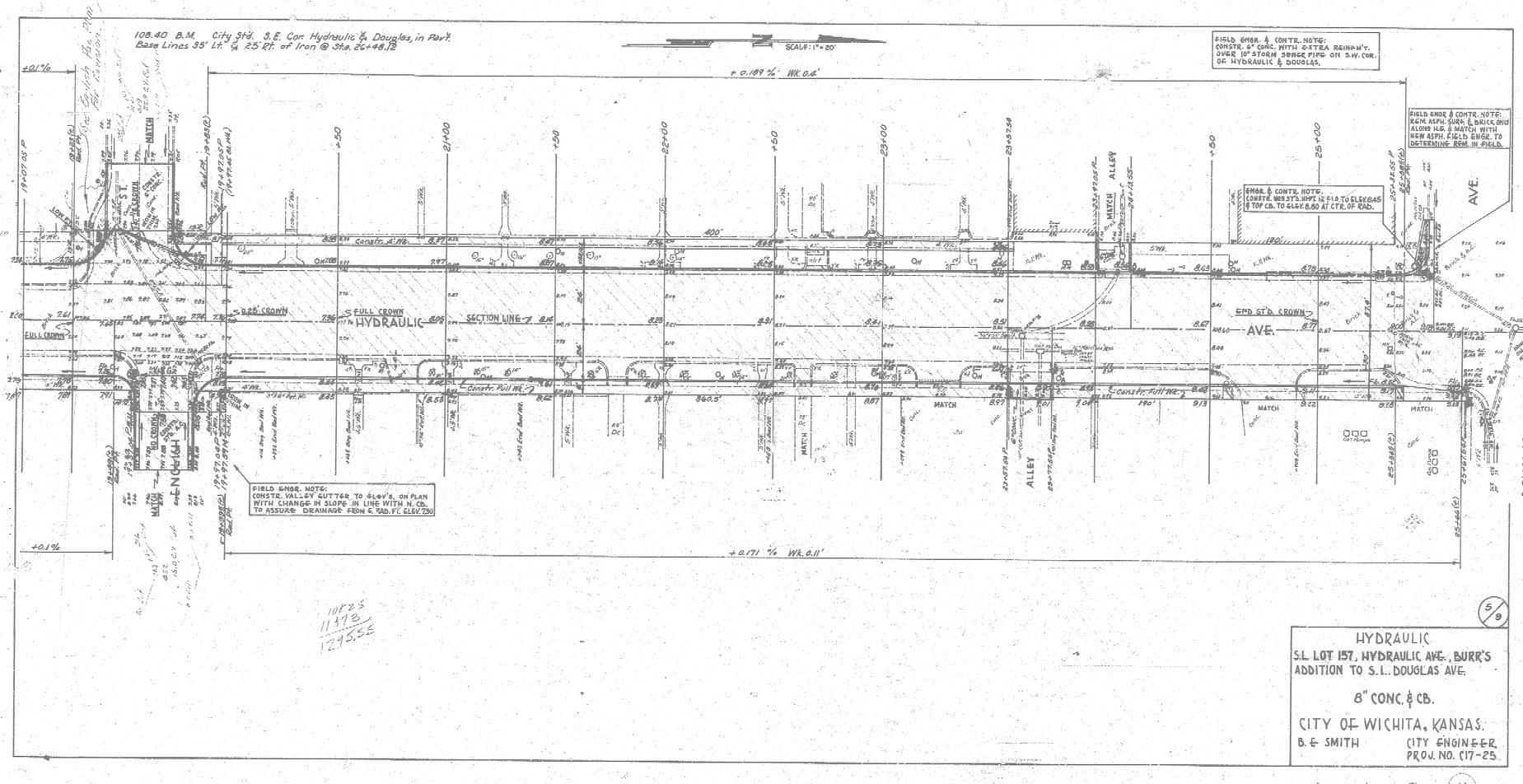
4/9

HYDRAULIC
S.L. LOT 157, HYDRAULIC AVE., BURR'S ADDITION TO S.L. DOUGLAS AVE.

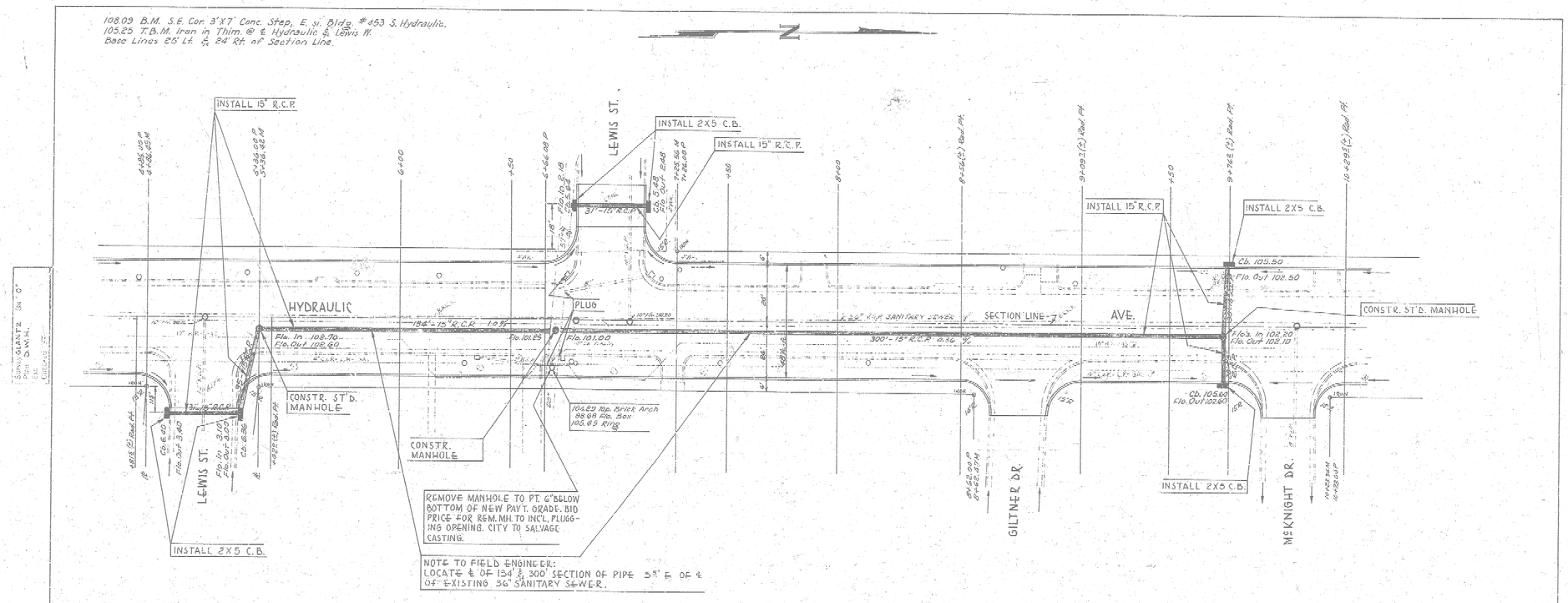
8" CONC. & CB.

CITY OF WICHITA, KANSAS.

B.E. SMITH CITY ENGINEER
PROJ. NO. C17-25


108.40 B.M. City Std. S.E. Cor. Hydraulic & Douglas, in Pav't.
Base Lines 35' Lt. & 25' Rt. of Iron @ Sta. 22+48.12
SCALE: 1" = 20'
+0.189 % Wk. 0.4'
+0.171 % Wk. 0.11'
+0.1%
FIELD ENGR. & CONTR. NOTE:
CONSTR. 6" CONC. WITH 6"x6"x4 REINF'M'T. OVER 10" STORM SEWER PIPE ON S.W. COR. OF HYDRAULIC & DOUGLAS.
FIELD ENGR & CONTR. NOTE:
REM. ASPH. SURF. & BRICK ONLY ALONG N.G. & MATCH WITH NEW ASPH. FIELD ENGR. TO DETERMINE REM. IN FIELD.
ENGR. & CONTR. NOTE:
CONSTR. MH STD. NO. 1 TO ELEV. 845 & TOP CO. TO ELEV. 8.50 AT CTR. OF RAD.
FIELD ENGR. NOTE:
CONSTR. VALLEY GUTTER TO ELEV'S. ON PLAN WITH CHANGE IN SLOPE IN LINE WITH N. CB. TO ASSURE DRAINAGE FROM E. RAD. PT. ELEV. 7.30
HYDRAULIC AVE.
DOUGLAS AVE.
ALLEY
SECTION LINE
MATCH
400'
360.5'
190'
91.3'
5/9
HYDRAULIC
S.L. LOT 157, HYDRAULIC AVE., BURR'S ADDITION TO S.L. DOUGLAS AVE.
8" CONC. & CB.
CITY OF WICHITA, KANSAS.
B. E. SMITH CITY ENGINEER
PROJ. NO. 117-25
1115
11

108.09 B.M. S.E. Cor. 3'X7' Conc. Step, E. si. Bldg. #453 S. Hydraulic.
105.25 T.B.M. Iron in Thim. @ E. Hydraulic & Lewis St.
Base Lines 25' Lt. & 24' Rt. of Section Line.



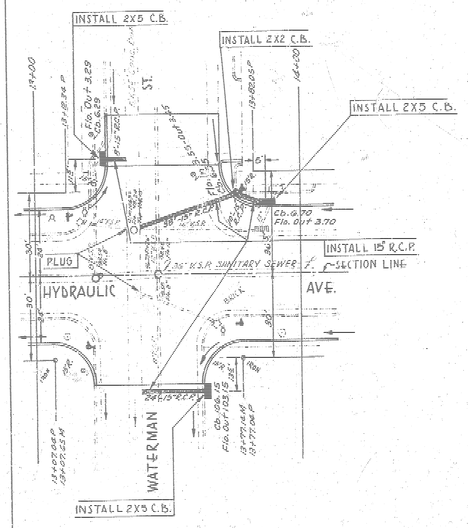

1/2

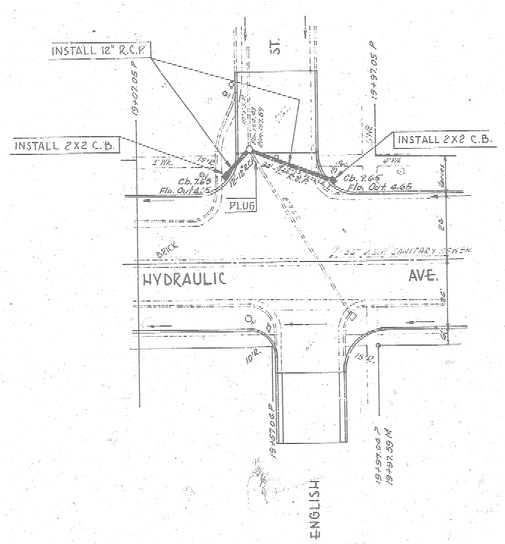
INCIDENTAL DRAINAGE
IN CONNECTION WITH PAVING OF HYDRAULIC AVE. FROM S.L. LOT 157, HYDR. AVE., BURR'S ADDITION TO DOUGLAS AVE.

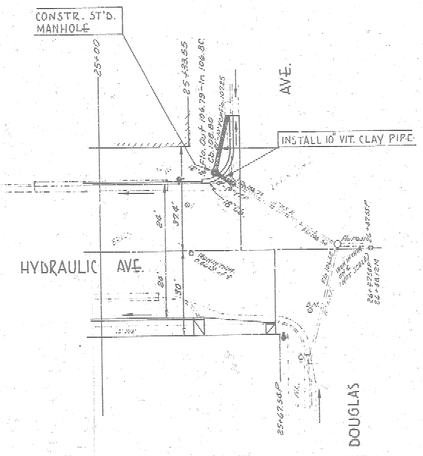
CITY OF WICHITA, KANSAS.

B. E. SMITH — CITY ENGINEER
JULY 1957 — PROJ. NO. C17-25

106.39 T.B.M. Iron in Thim. E. Hydraulic & S. Si. Waterman Intersection.
107.72 T.B.M. Iron in Thim. W.L. Hydraulic & E. English West.
108.90 B.M. City Standard. S.E. Cor. Hydraulic & Douglas, in Pav't.
Base Lines 25' Rt. & 35' Lt. From N.L. Waterman, to Douglas.




2/2

INCIDENTAL DRAINAGE
IN CONNECTION WITH PAVING OF
HYDRAULIC AVE. FROM S.L. LOT 157, HYDR. AVE., BURR'S ADDITION TO DOUGLAS AVE.

CITY OF WICHITA, KANSAS.

B. E. SMITH CITY ENGINEER
PROJ. NO. C17-25