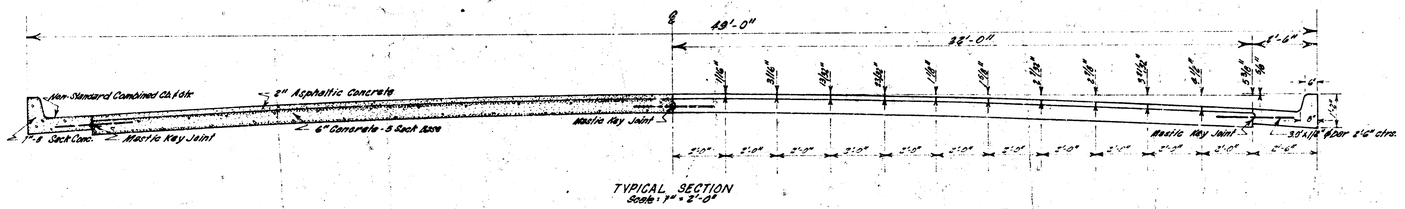
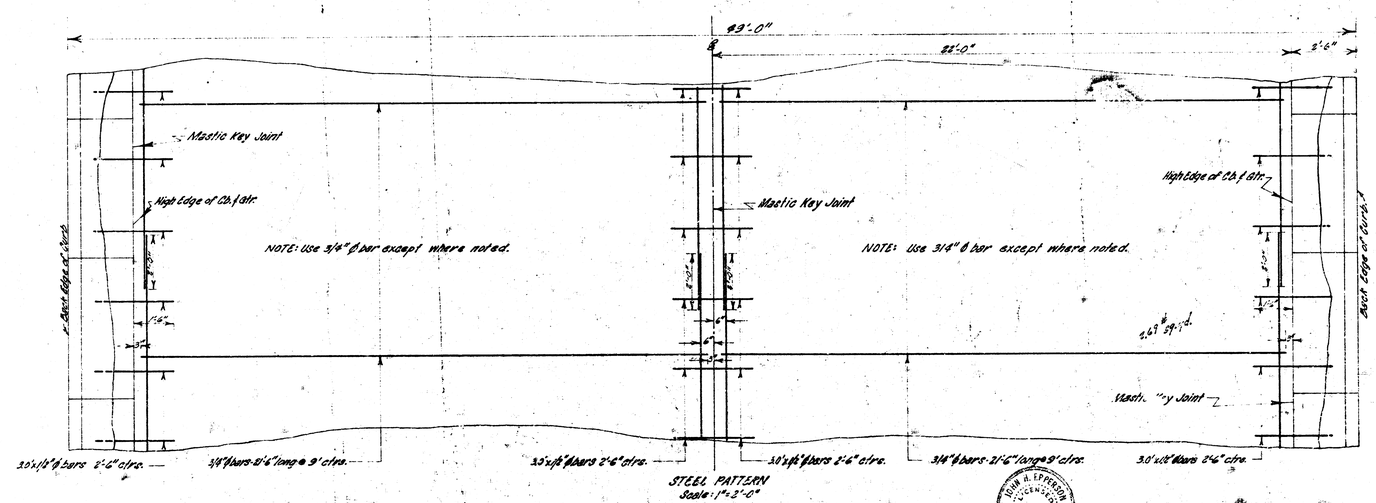
THIRTEENTH STREET

W.L. KANSAS AVE. - W.L. HILLSIDE AVE.

PROJECT NO. C19-14



TYPICAL SECTION
Scale: 1" = 2'-0"



STEEL PATTERN
Scale: 1" = 2'-0"

JOHN H. EPPERSON LICENSED 531 CIVIL ENGINEER

R. E. SMITH LICENSED 436 KANSAS PROFESSIONAL ENGINEER

1/23

B.M.#8. 115.07 "G" in Globe W. cb. Pennsylvania, S.L. 13th
B.M.#9. 116.02 Standard S.E. Hydraulic & 13th
B.M.#10. 115.64 "G" in Globe. c. v.k. W., S.W. Hydraulic & 13th

PENNSYLVANIA AVE.

HYDRAULIC AVE.

KANSAS AVE.

NOTE: Beg. Project here.

Match Existg conc.

Shopping Center

Conc. Blk. Church

Conc. Blk. Bldg.

Fr. & Conc. Blk. Bldg.

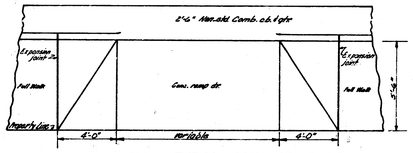
Gas Pumps

Note: Remove brick at 7 Shelter with Asphaltic Conc. #232

Note to Field Engineer: Contact property owner for relocation of this driveway.

Note to field Engineer & Contractor— a 5.5' concrete walk to be constructed on both sides of new construction from beg. to end of project. Field Engr. to determine in field if any of present walk is to remain in place.

NOTE:
Intersections @ Platt, Grove & Volutsia to be completed & open to north-south traffic as quickly as possible.



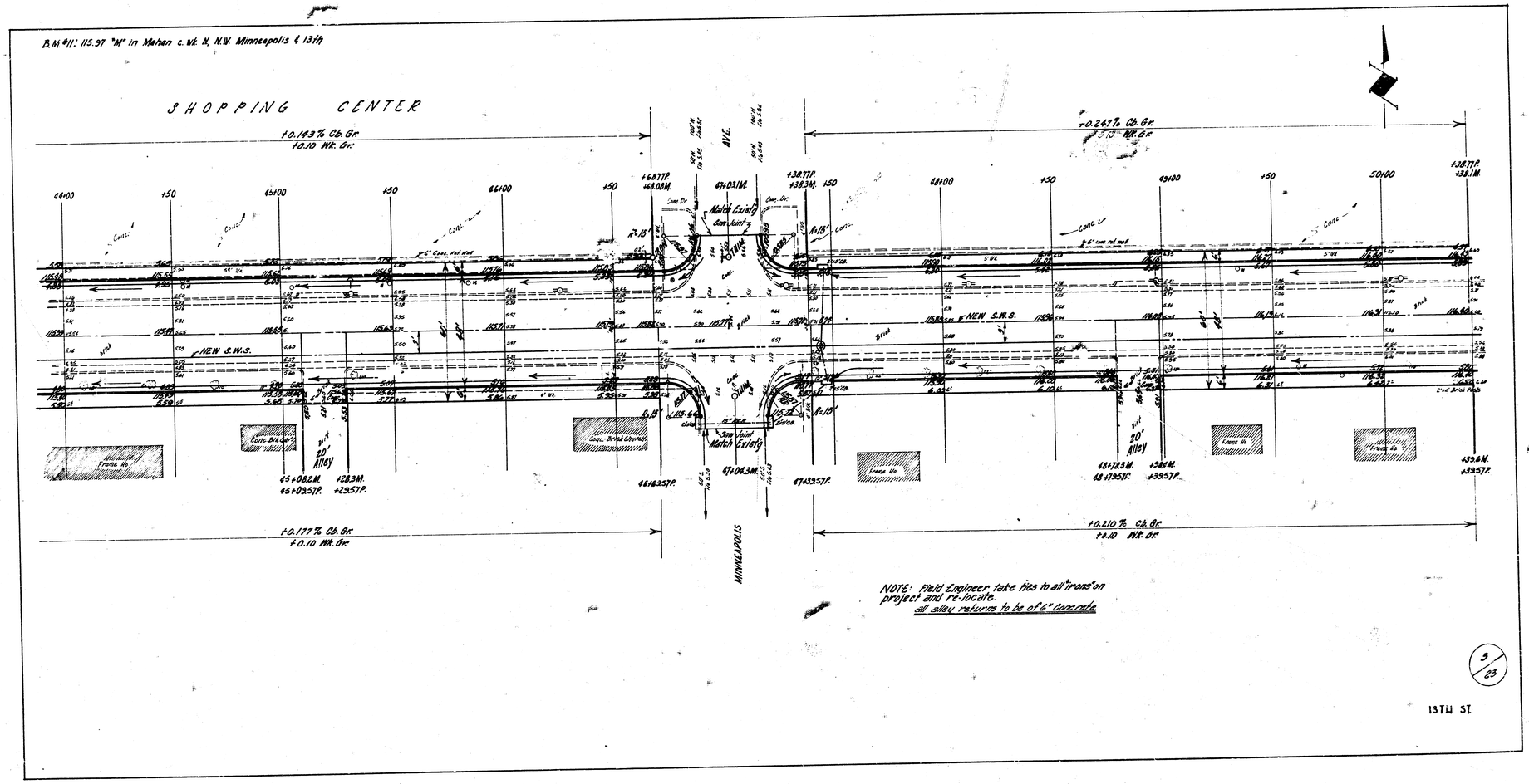
DETAIL of TYPICAL CONCRETE DRIVE
NO SCALE

JOHN H. EPPERSON LICENSED 531 KANSAS PROFESSIONAL ENGINEER

2/23

THIRTEENTH STREET
WL. KANSAS AVE. – WL. HILLSIDE AVE.
44-2-48 ASPHALTIC CONC.
CITY OF WICHITA – KANSAS
B.E. SMITH CITY ENGINEER
DATE: MAY 1959 PROJ. NO. C19-14

B.M. #11: 115.97 "M" in Mahan c. wk. N. N.W. Minneapolis & 13th



B.M. #12: 116.87 "V" in ctr. wk. N.W. cor. Platt & 13th

+0.140 % Cb. Gr.
+0.10 Wk. Gr.

+0.118 % Cb. Gr.
+0.10 Wk. Gr.

50+38.77 P.
50+38.1 M.

51+08.77 P.
51+08.2 M.

+50

52+00

+68.77 P.
+67.9 M.

+68.77 P.
+68.0 M.

53+00

+50

54+08.77 P.
54+08.0 M.

+37.8 M.

+68.77 P.

55+00

+50

+98.77 P.
+98 M.

56+13.77 P.
56+10 M.

56+50

57+00

ALLEY

Match Existg.

Conc.

Sewer

Frame Bk.

20' Alley

12' Alley

R=15'

NEW S.W.S.

NEW S.M.S.

50+33.4 M.
50+33.57 P.

+74.0 M.

51+09.57 P.

52+48 M.
52+49.57 P.

+68.0 M.
+69.57 P.

54+09.57 P.

+57.1 M.
+58.27 P.

55+35.8 M.
55+36.77 P.

56+05.7 M.
56+06.27 P.

MINNESOTA

PLATT

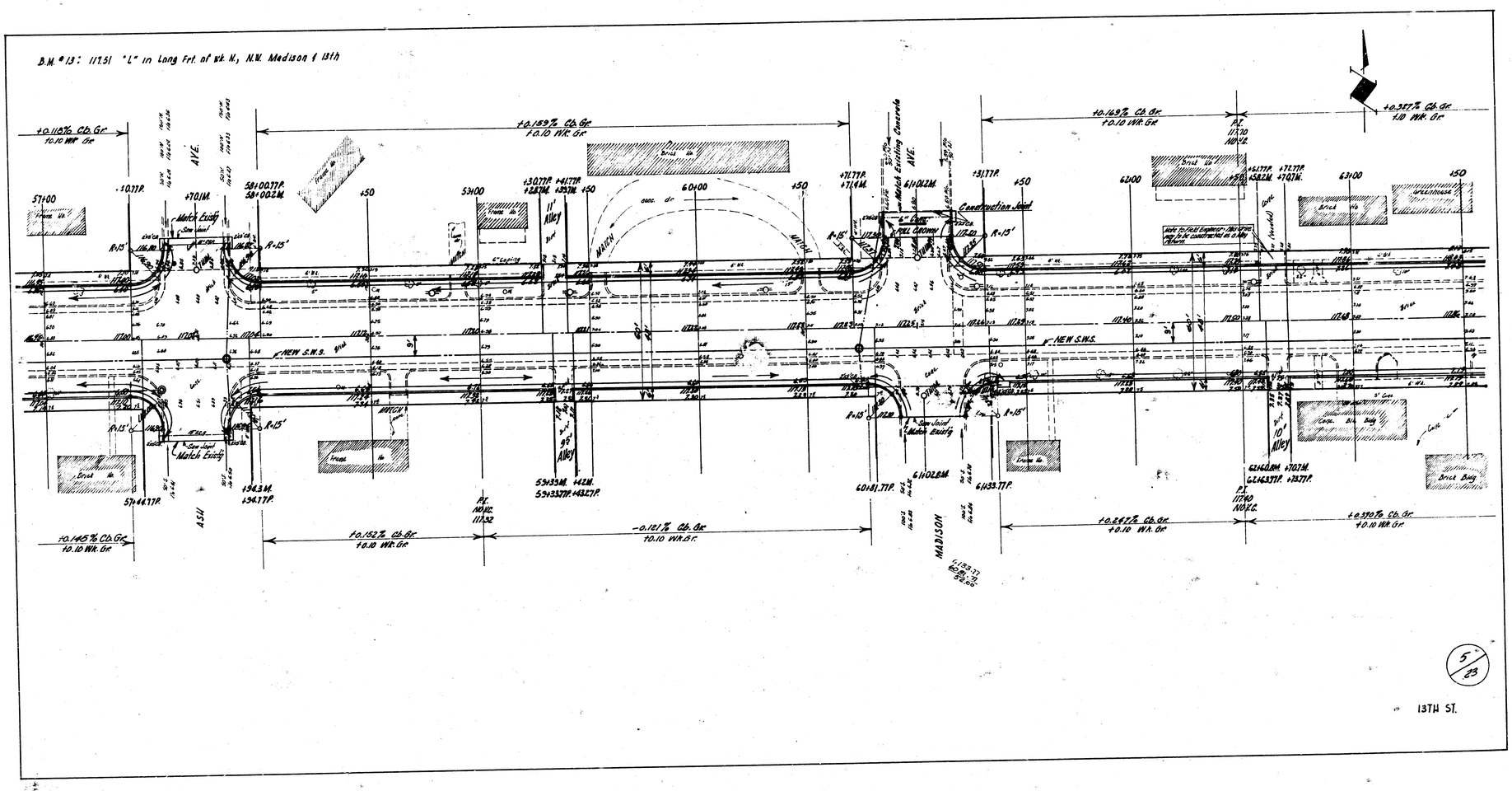
+0.122 % Cb. Gr.
+0.10 Wk. Gr.

+0.145 % Cb. Gr.
+0.10 Wk. Gr.

4/23

13TH ST.

B.M. #13: 117.51 "L" in Long Frt. of wk. N., N.W. Madison & 13th



5/13

B.M. #14: 119.27 Standard S.E. Grove & 13th.
B.M. #15: 120.83 "+" on N.E. cor. conc. base of sign, S.W. cor. Grove & 13th.

+0.33 Ft. Gr. +0.10 Mn. Gr.

+0.31 Ft. Gr. +0.10 Mn. Gr.

+0.41 Ft. Gr. +0.10 Mn. Gr.

AT TARS MONT.

AVE.

63+50 64+02 P.T.P. +32.1 M. +62.7 P. 65+00 +50 +50 66+00 +32.7 P. +0.3 P.T.P. +32.5 M. 66+03 M. +50 +33.7 P. +33.5 M. +62.7 M. +33.7 F. +33.5 M. 68+50 69+00 +50 70+00

Trans. Line

Trans. Ln.

Brick Church

11' Alley

Match Existg

6" Conc.

FULL CROWN

4" Block Wire Fence

Curb Match

Wall Match

Asphalt

Sew Joint Match Existg

Gas Pumps

Construct CB Pump or modify Inlet

Modify Inlet & Pump & conn. to P.W.

6" High conc. Vs.

Brick Bldg.

Re-set Std. CM. in new location.

Concrete

10' Alley

Frame Bldg.

Conc. Retng. Wall

64+02 P.T.M. 64+03 P.T.P. +32.6 M. +62.6 M. +63.7 P.T.P. 66+00 67+35.0 M. 67+33.7 P.T.P. +93.2 M. +93.7 P.T.P. 69+47 P.T.M. +57.1 M. 69+48 P.T.P. +58.7 P.T.P.

+0.33 Ft. Ch. Gr. +0.10 Mn. Gr.

+0.64 Ft. Ch. Gr. +0.10 Mn. Gr.

+0.43 Ft. Ch. Gr. +0.10 Mn. Gr.

SPRUCE

GROVE

7/31/29

13TH ST

6/63

B.M. #16 : 124.17 "G" in N. Globe W. cb. Green, 4' N. of N.L. 13th

NOTE: Construct 4' ramps on last 4' of 18' rad. for dr. wys.

P.I. 12396 NO VC.

+0.578 % Cb. Gr.
+0.10 WR. Gr.

Conc. Bld. Bldg.

Gas Pumps

Match Existg 3cm Joint

6" Curb

FULL CROWN

R=15'

Curb

Conc. Bld. Bldg.

Gas Pumps

Match Existg 3cm Joint

6" Curb

R=15'

Curb

POLAR

AVE.

NOTE: Construct 4' ramps on last 4' of 18' rad. for dr. wys.

DETAIL of TYPICAL 1 F.T. RET. WALL
Sta. 70+00 to Sta. 70+23.77

+0.697 % Cb. Gr.
+0.10 WR. Gr.

P.I. 12260 NO VC.

+0.806 % Cb. Gr.
+0.10 WR. Gr.

+0.656 % Cb. Gr.
+0.10 WR. Gr.

P.I. 12250 NO VC.

+0.407 % Cb. Gr.
+0.10 WR. Gr.

10' Alley

Conc. Water Main

Cast Iron Water Main

Conc. Bld. Bldg.

Brick Bldg.

Metal Cement Bldg.

Conc. Bld. Bldg.

Brick Bldg.

Conc. Bld. Bldg.

Match Existg 3cm Joint

6" Concrete

Match Existg 3cm Joint

R=15'

R=15'

GREEN

AVE.

+1.979 % Cb. Gr.
+0.10 WR. Gr.

P.I. 12302 NO VC.

+2.276 % Cb. Gr.
+0.10 WR. Gr.

+2.317 % Cb. Gr.
+0.10 WR. Gr.

P.I. 12300 NO VC.

+2.500 % Cb. Gr.
+0.10 WR. Gr.

10' Alley

Conc.

MATCH

Frame Wk.

Frame Wk.

Frame Wk.

B.M. #17: 130.72 "T" in Tannahill bk. wk. N. N.W. Estelle & 13th.
B.M. #18: 140.31 "V" on c. wk. W. 15' W. of cb. Valutsia N.S. 13th.

P.V.I. 128.39 16.0 V.C.
-1.706% Cb. Gr. +0.10 Wk. Gr.
P.V.I. 130.30 60 V.C.
+3.110 % Cb. Gr. +0.10 Wk. Gr.
P.V.I. 135.79 32 V.C.
+2.406% Cb. Gr. +0.10 Wk. Gr.
P.V.I. 139.20 40 V.C.
+1.733 % Cb. Gr. +0.10 Wk. Gr.
P.V.I. 143.59 NO V.C.
+1.811% Cb. Gr. +0.10 Wk. Gr.
+2.285 % Cb. Gr. +0.10 Wk. Gr.
+2.298% Cb. Gr. +0.10 Wk. Gr.
+1.804% Cb. Gr. +0.10 Wk. Gr.
P.V.I. 128.39 ADJUC.
P.V.I. 130.20 60 V.C.
P.V.I. 137.44 20 V.C.
P.V.I. 139.20 60 V.C.
P.V.I. 142.94 NO V.C.

76+50 Frame No.
77+00 Frame No.
78+00 Brick No.
79+00 Frame No.
80+00 Frame No.
Brick No.
82+00 Brick No.
83+00 Brick No.
Frame No.

+34.2 P. +33.0 M. +58.0 M. +46.2 P. +66.2 P. +87.1 M. 81+15.2 P. +49.7 M.

Match Existg Curb & Gutter
Match Existg Curbing
Match Existg Sidewalk
Abandon Drwy.
Remove Existg Drwy.
Remove Existg Curb & Gutter
Remove Existg Sidewalk
Remove Existg Curbing
Remove Existg Steps
Remove Existg Retg. Wall
Remove Existg Fence
Remove Existg Gate
Remove Existg Bldg.
Remove Existg Shed
Remove Existg Garage
Remove Existg Pole
Remove Existg Tree
Remove Existg Hydrant
Remove Existg Sign
Remove Existg Meter
Remove Existg Manhole
Remove Existg Catch Basin
Remove Existg Inlet
Remove Existg Valve
Remove Existg Vault
Remove Existg Pipe
Remove Existg Conduit
Remove Existg Wire
Remove Existg Cable
Remove Existg Duct
Remove Existg Transformer
Remove Existg Switch
Remove Existg Light
Remove Existg Signal
Remove Existg Meter
Remove Existg Manhole
Remove Existg Catch Basin
Remove Existg Inlet
Remove Existg Valve
Remove Existg Vault
Remove Existg Pipe
Remove Existg Conduit
Remove Existg Wire
Remove Existg Cable
Remove Existg Duct
Remove Existg Transformer
Remove Existg Switch
Remove Existg Light
Remove Existg Signal

P.V.C. P.V.T. P.C. P.T. P.R.C. R.C. E.C. B.C. T.C. C.C. Q.C. Q.T. Q.C. Q.T.

R=15' R=15' R=15' R=15' R=15' R=15' R=15' R=15'

7" Concrete
Saw Joint & Match Existg
Construct 6 high ret. wall above existg. Slope yard at 6:1
50' Brick Wall (Leaf shape)
Expansion Joint
Contr. Joint
Existg. Sidewalk
Existg. Curb & Gutter
Existg. Curbing
Existg. Steps
Existg. Retg. Wall
Existg. Fence
Existg. Gate
Existg. Bldg.
Existg. Shed
Existg. Garage
Existg. Pole
Existg. Tree
Existg. Hydrant
Existg. Sign
Existg. Meter
Existg. Manhole
Existg. Catch Basin
Existg. Inlet
Existg. Valve
Existg. Vault
Existg. Pipe
Existg. Conduit
Existg. Wire
Existg. Cable
Existg. Duct
Existg. Transformer
Existg. Switch
Existg. Light
Existg. Signal

10' Alley

STELLE

77+52.3 H. 77+33.7 P. 100' N. 42 100' N. 138 100' N. 234 100' N. 330 483.7 P.
79+17.3 M. 79+18.7 P. +27.9 +28.7
80+23.7 P. +46.0 M. 81+13.7 P.
82+47.2 M. 82+48.7 P. +57.1 M. +58.7 P.

VALUTSIA

13TH ST.

DETAIL of TYPICAL CONC. RET. WALL
No Scale

DIMENSIONS

	a	b
Minimum	1'-0"	1'-0"
Maximum	3'-0"	2'-0"

NOTE:
Bid Price on Concrete Retaining Walls will be by Lin. Ft. including all Construction costs: Excavation, etc. also Backfill to be hand-tamped to cer. Density.

Note: Lin. Ft. Step is defined as width times the number of risers.

CONCRETE STEP DETAIL WITH RET. WALL

Front View

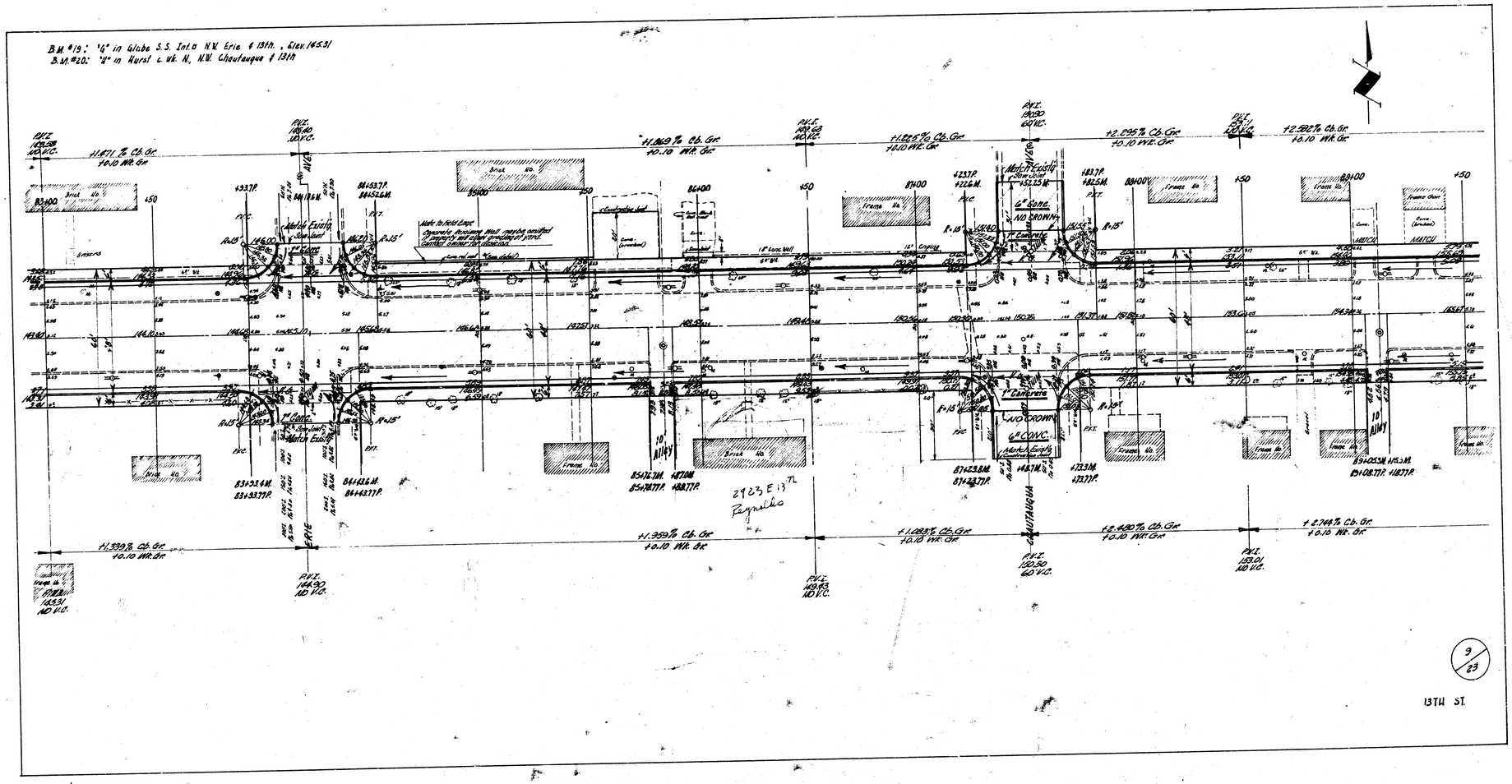
Sec. A-A

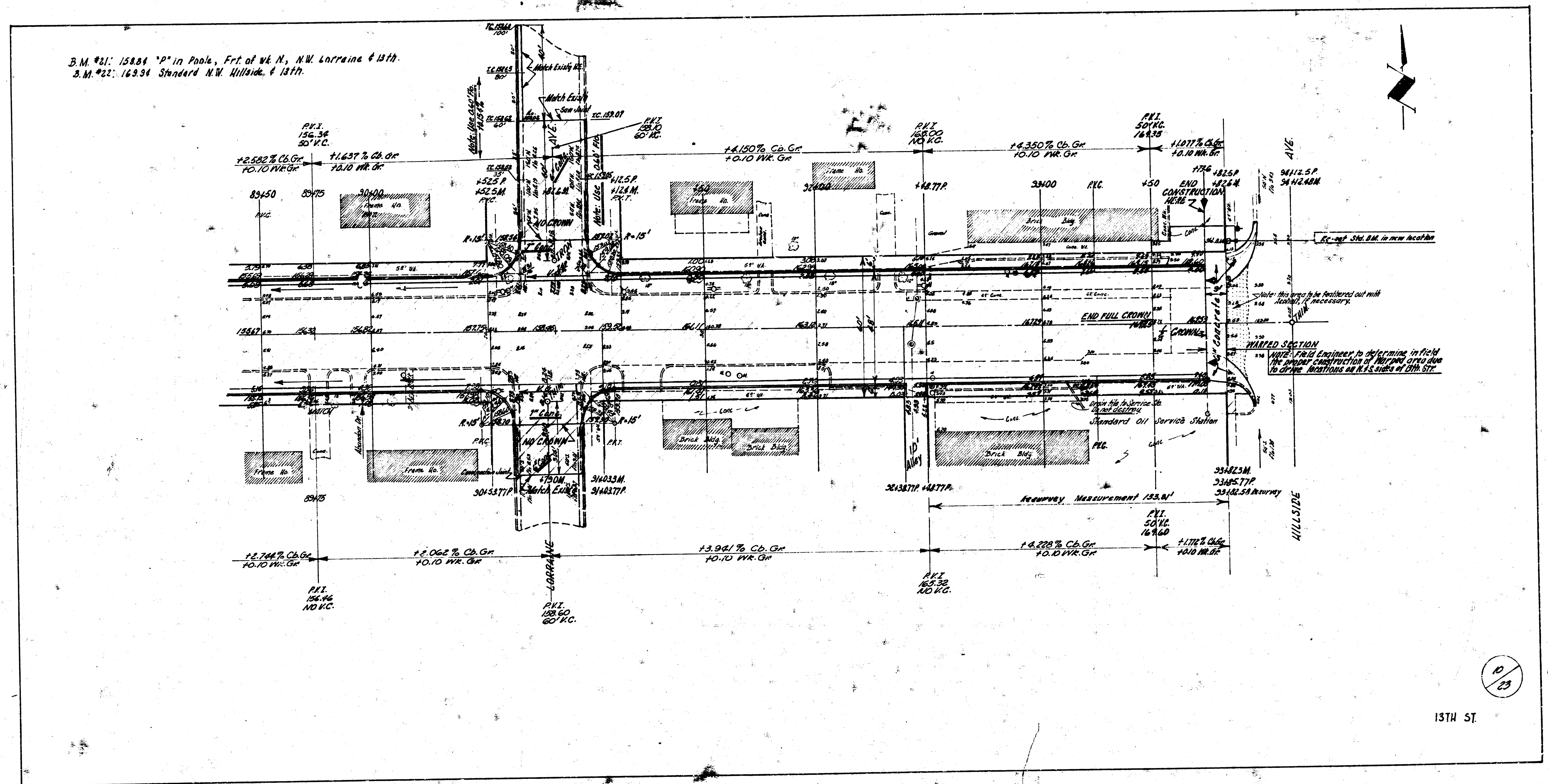
Note: all steel to be 1/2" bar

STEP DIMENSIONS	
Riser	Tread
5"	13"
6 1/8"	11 7/8"
6 1/8"	11 7/8"
6 1/8"	11"
6 1/8"	11 1/8"
6 1/8"	11 1/8"
6 1/8"	11 1/8"
6"	11 1/8"
6 1/8"	11 1/8"
6 1/8"	11 1/8"
6 1/8"	11 1/8"
6 1/8"	11 1/8"
6 1/8"	11 1/8"
6 1/8"	11"
6"	10 7/8"

8/23

B.M. #19: "G" in Globe S.S. Int.a N.W. Erie & 13th., Elev. 145.31
B.M. #20: "H" in Hurst c. wk. N, N.W. Chautauqua & 13th

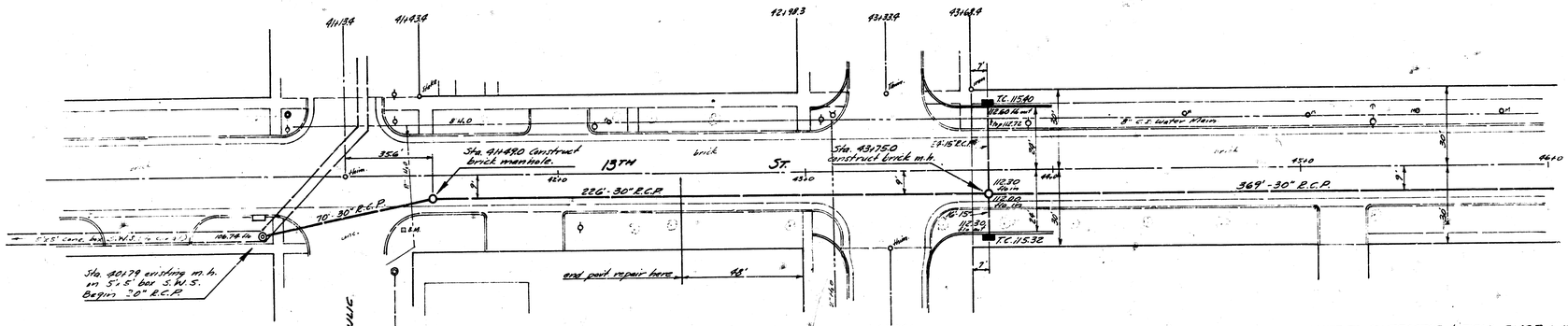

P.V.I. 149.38 100 P.V.C.
-1.871% Cb. Gr.
+0.10 WR. Gr.
P.V.I. 149.80 100 V.C.
-1.369% Cb. Gr.
+0.10 WR. Gr.
P.V.I. 149.63 100 V.C.
+1.825% Cb. Gr.
+0.10 WR. Gr.
P.V.I. 149.20 100 V.C.
+2.295% Cb. Gr.
+0.10 WR. Gr.
P.V.I. 149.12 100 V.C.
+2.580% Cb. Gr.
+0.10 WR. Gr.
Mark to Existing Curb Level 152.15 W.
6" Conc. NO CROWN
Mark to Existing Curb Level
Make to Field Layout Pavements, driveways, walks, curbs to be modified if necessary, and curb grades to be carried across to meet existing grades.
Brick Ho.
Frame Ho.
Frame Barn
Brick Gar.
Concrete Wall
Retaining Wall
Curb (Varies)
Curb (Concrete)
Curb (Asphalt)
Gutter
Asphalt Pavement
Concrete Pavement
Brick Pavement
Gravel Pavement
Existing Curb Level
Existing Pavement
Existing Gutter
Existing Curb
Existing Sidewalk
Existing Driveway
Existing Retaining Wall
Existing Concrete Wall
Existing Brick Wall
Existing Fence
Existing Trees
Existing Poles
Existing Hydrants
Existing Manholes
Existing Catch Basins
Existing Inlets
Existing Gas Valves
Existing Water Valves
Existing Telephone Boxes
Existing Electric Boxes
Existing Gas Boxes
Existing Water Boxes
Existing Telephone Poles
Existing Electric Poles
Existing Gas Poles
Existing Water Poles
Existing Telephone Lines
Existing Electric Lines
Existing Gas Lines
Existing Water Lines


B.M. #21: 158.84 "P" in Pole, Frt. of wk. N., N.W. Lorraine & 13th.
B.M. #22: 169.94 Standard N.W. Hillside & 13th.
P.V.I. 156.34 50' V.C.
+2.582 % Cb.Gr. +0.10 Wk.Gr.
+1.637 % Cb.Gr. +0.10 Wk.Gr.
89+50
89+75
90+00
P.V.C.
Frame Ho.
Note: Use 0.60' Flo.
Match Exist'g W.E.
Match Exist'g
Saw Joint
T.C. 159.07
P.V.I. 158.10 60' V.C.
+52.5 P.
+52.5 M.
+12.5 P.
+12.6 M.
P.V.T.
R=15'
NO CROWN
7" Conc.
AVE.
+4.150 % Cb.Gr. +0.10 Wk.Gr.
P.V.I. 165.00 NO V.C.
+4.350 % Cb.Gr. +0.10 Wk.Gr.
P.V.I. 50' V.C. 169.35
+1.077 % Cb.Gr. +0.10 Wk.Gr.
92+00
+48.77 P.
93+00
+50
END CONSTRUCTION HERE
+73.6
+82.5 P.
+82.6 M.
94+12.5 P.
94+12.48 M.
Brick Bldg.
Re-set Std. B.M. in new location
Note: this area to be feathered out with Asphalt, if necessary.
THIN
END FULL CROWN
CROWN
Concrete
WARPED SECTION
NOTE: Field Engineer to determine in field the proper construction of Warped area due to drive locations on N. & S. sides of 13th. Str.
WATCH
Abandon Dr.
Construction Joint
Match Exist'g
+730 M.
90+53.77 P.
91+03.3 M.
91+03.77 P.
Brick Bldg.
10' Alley
92+38.77 P. +48.77 P.
Drain tile to Service Sta. Do not destroy
Standard Oil Service Station
93+82.3 M.
93+85.77 P.
93+82.58 Resurvey
Resurvey Measurement 133.81'
+2.744 % Cb.Gr. +0.10 Wk.Gr.
P.V.I. 156.46 NO V.C.
+2.062 % Cb.Gr. +0.10 Wk.Gr.
LORRAINE
P.V.I. 158.60 60' V.C.
+3.941 % Cb.Gr. +0.10 Wk.Gr.
P.V.I. 165.32 NO V.C.
+4.228 % Cb.Gr. +0.10 Wk.Gr.
P.V.I. 50' V.C. 169.60
+1.772 % Cb.Gr. +0.10 Wk.Gr.
HILLSIDE
10/23
13TH ST.

B.M. 116.02 Standard S.E. Hydraulic & 13th
B.M. 115.64 'G' in Globe, c. wk. W., S.W. Hydraulic & 13th

N

Scale: 1" = 20'



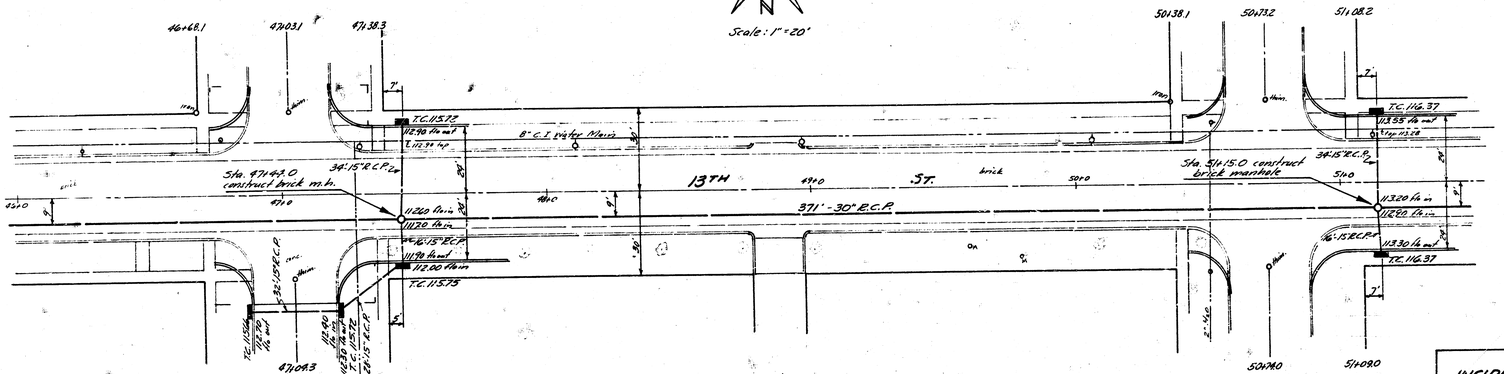
NOTE: Pavt cut to be repaired as shown with 6 sack city paving mix, 7" thick. Use ¾" ø transverse cogs @ 2' ctrs. & 2-¾" longitudinal bars. All trenches on project to be sand filled & flushed. Bid price of sand to include cost of flushing.

NOTE TO CONTRACTOR & FIELD ENGR.: Work to be coordinated with paving contractor. Catch basins to be built after curb & gutter is poured. Manholes to be built to match new pavt elevation.

B.M. 115.97 'M' in Nathan, ctr. wk. N., N.W. Minneapolis & 13th

N

Scale: 1" = 20'

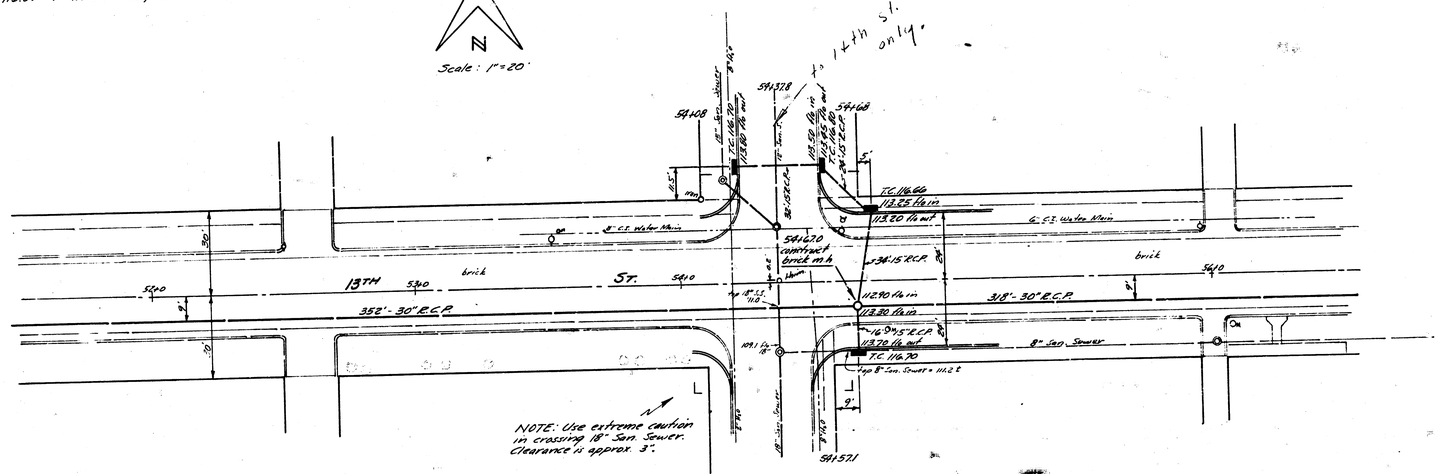


INCIDENTAL DRAINAGE
13TH ST.
W.L. KANSAS TO W.L. HILLSIDE
CITY OF WICHITA, KANSAS
B.E. SMITH - CITY ENGINEER
MAY, 1959 PROJ. C19-19

1/4

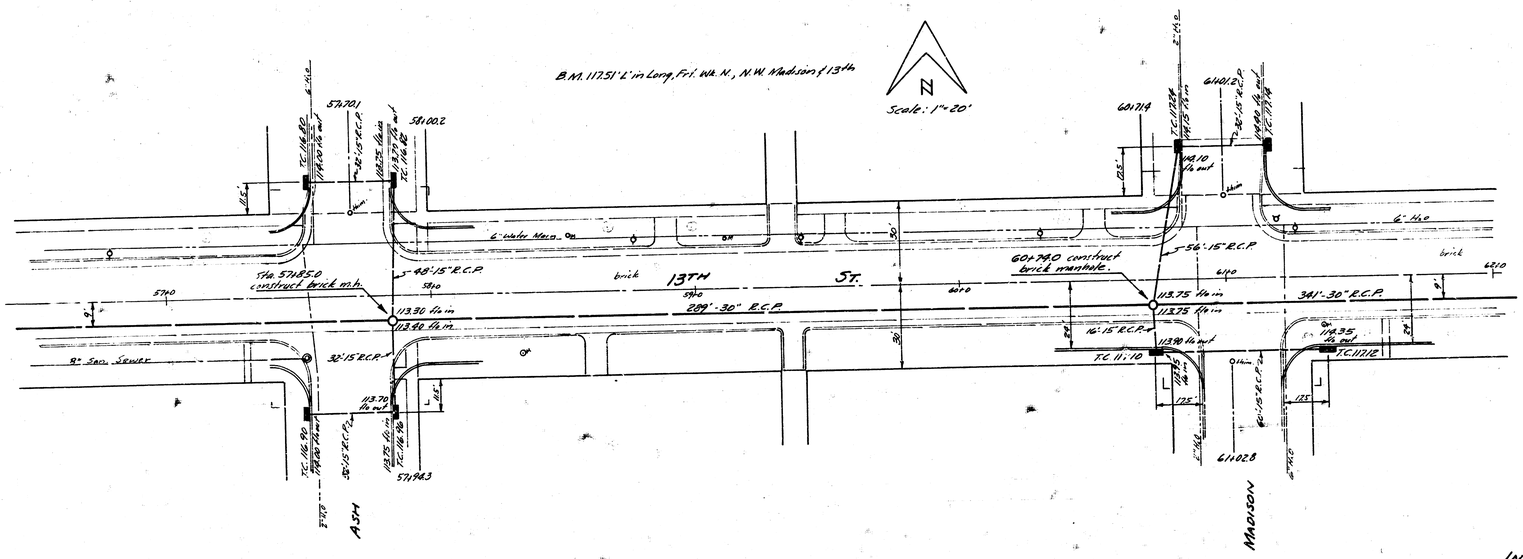
B.M. 116.87 'V' in ctr. Wk., N.W. Cor. Platt & 13th

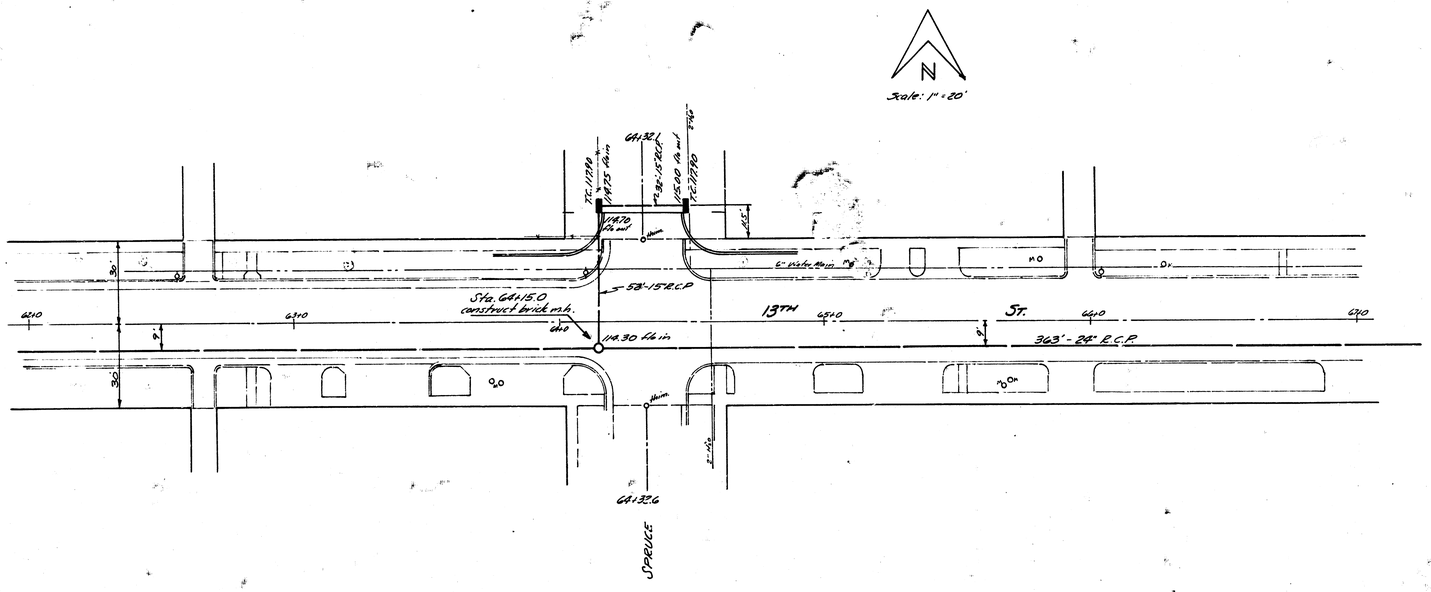
Scale: 1"=20'

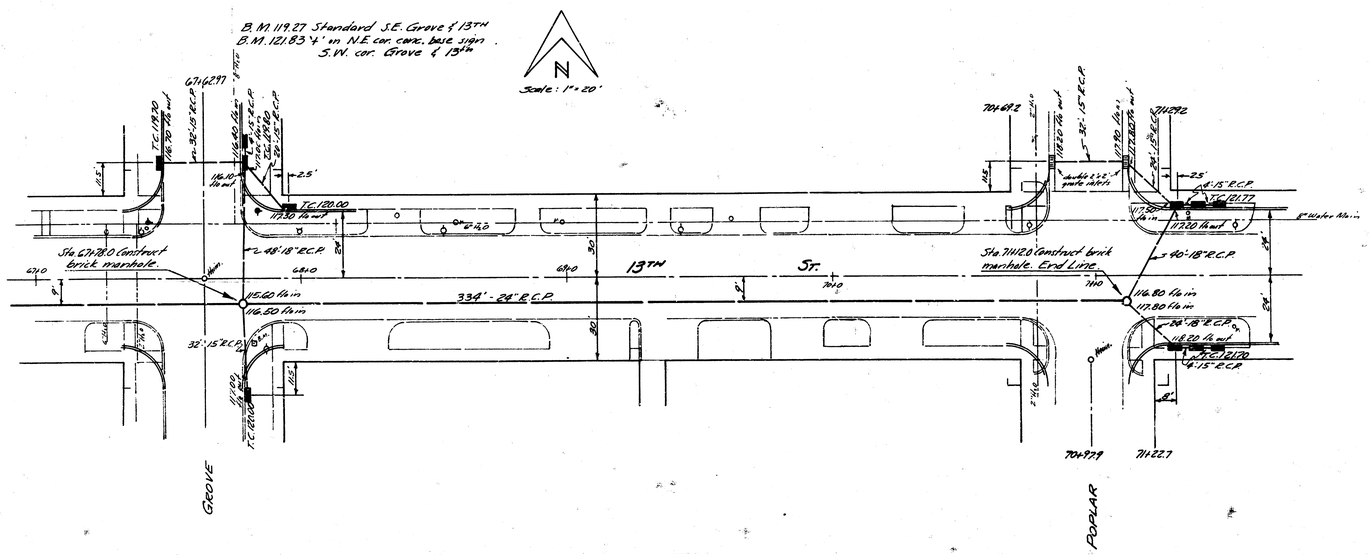


B.M. 117.51 'L' in Long, Fr. Wk. N., N.W. Madison & 13th

Scale: 1"=20'


571701
571003
571943
T.C. 116.80
113.30 H.P. out
113.25 H.P. in
T.C. 116.90
113.30 H.P. out
48"-15" R.C.P.
32"-15" R.C.P.
289'-30" R.C.P.
113.30 H.P. in
113.30 H.P. out
T.C. 116.90
113.70 H.P. out
T.C. 116.90
9" San. Sewer
13TH
5T.
ASH
brick
5740
5710
5710
5710





3/4

INCIDENTAL DRAINAGE
13TH ST.
PROJ. C19-14

110 120

112.68

112.82

112.96
F.L. Out 112.98
F.L. In 113.98

113.82

114.26

114.68

F.L. Out 115.00
F.L. In 115.00
115.08

115.64

115.80

F.L. Out 115.20

30" R.C.P. @ 0.14%

24" R.C.P. @ 0.42%

24" R.C.P. @ 0.32%

6810 6910 6810 6910 6810 6910 6810

64+13.0 12 M.H.
and 30, begin 24"
SPRUCE

47+78.0
M.H.
GROVE

21+12.0
M.H.
End 24"
POPLAR

110 120

110.66
F.L. Out 110.70
F.L. In 110.70

111.48

111.89

111.48

111.33

111.33

111.71

111.78

112.08
F.L. In 112.08
112.86

112.22

112.38

112.50
F.L. In 112.50
112.58

112.68

5911+50.0
M.H.
MINNESOTA

5910 5910 5810 5810 5710 5710 5610

existing 24" R.C.P.

30" R.C.P. @ 0.22%

5711+60.0
M.H.
PRATT

30" R.C.P. @ 0.18%

5711+85.0
M.H.
ASH

30" R.C.P. @ 0.16%

60+74.0
M.H.
MADISON

30" R.C.P. @ 0.14%

105 110

106.76
F.L. existing box
F.L. In 107.22

107.71

108.11

108.50

108.84

109.18

109.52

109.82

110.10

110.38

110.66

existing 24" R.C.P.

20+78
existing M.H.
HYDRAULIC

30" R.C.P. @ 0.40%

3+28.0
M.H.

F.L. Out 107.30
F.L. In 102.51

30" R.C.P. @ 0.34%

63+75.0
M.H.
KANSAS

F.L. Out 108.41
F.L. In 108.41

30" R.C.P. @ 0.28%

47+48.0
M.H.
MINNEAPOLIS

F.L. Out 109.66
F.L. In 109.66

30" R.C.P. @ 0.28%

6910 6910 6810 6810 6710 6710 6610 6610

110 115 120

"INCIDENTAL DRAINAGE
13TH ST.
PROJ. C-1214"

10 e S 1