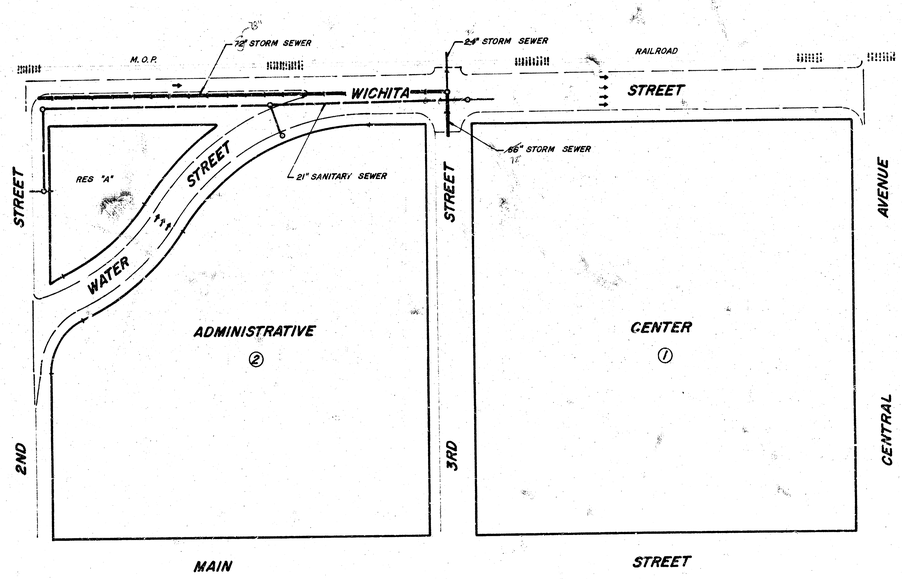
Revised 12/5/74

THE URBAN RENEWAL AGENCY
OF THE
WICHITA, KANSAS METROPOLITAN AREA

SANITARY SEWER RELOCATION
STORM SEWER CONSTRUCTION
PAVING CONSTRUCTION

NEIGHBORHOOD DEVELOPMENT PROGRAM
ADMINISTRATIVE CENTER ACTIVITY AREA

ENGINEERING DIVISION, DEPARTMENT OF PUBLIC WORKS
R. W. LINN CITY ENGINEER
NOVEMBER 1974 KANSAS R-19



NOTE: THIS PROJECT IS TO BE COORDINATED WITH THE IMPROVING OF MAIN STREET FROM DOUGLAS TO ELM AND THE CONSTRUCTION OF THE CITY OF WICHITA ADMINISTRATIVE CENTER FACILITY.

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◦ SHEET INDEX ◦

SANITARY SEWER RELOCATION ---- Sheets 2, 3,
STORM SEWER CONSTRUCTION ---- Sheets 4 thru 9
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PARKING REPAIR Between WICHITA and MAIN - North Side 2ND and the South Side 3RD STREETS ---- Sheet 14
WATER LINE RELOCATION ------ Sheet 20

REGISTERED ENGINEER
No. 6311
STATE OF KANSAS

1/17

B.M.= 1128.3 ⊃ on N.E. Cor. K.P. Signal Box on W.S. cor. WICHITA & 3RD STREET
B.M.= 1107.9 ⊃ Sq. Face on E.S. 2ND ST. 0.5' ALLEY West of WATER STREET
(N.W. Cor. Bldg 305 W. 2ND ST.)

STA 6+78 CONST STD M.H. TYPE "A" LINE 1 STA 0+00 LINE 2

STA 7+10.5 CONST STD M.H. TYPE "A"

STA 7+83.2 Remove M.H. and connect pipes. "plug pipe east"

STA 7+60.5 CONST STD M.H. TYPE "A" over existg 8" San. "Remove existg M.H. & plug pipe east"

STA 11+18 CONST STD M.H. TYPE "A"

STA 0+50 CONST STD M.H. TYPE "A" Install 8" St. north east with temporary plug. NOTE: 8" stub out to be included in bid price of manhole.

STA 0+00 CONST STD M.H. TYPE "A" over existg 18" Pipe.

Remove existg M.H. and plug pipe north & south.

Remove existg M.H. and plug pipe South & west.

Remove grate inlet and plug lead.

Remove existg manhole and plug side north & south "sand backfill"

LINE No. 1 — 710.5 L.F. 21" CLAY PIPE

LINE No. 2 — 50 L.F. 8" CLAY PIPE

50 L.F. 20" Ductile Iron Pipe

22.7 L.F. 21" CLAY PIPE

Reserve "A"

WICHITA STREET — 3RD STREET — END STREET — WATER STREET

ADMINISTRATIVE (2) CENTER

EXISTG 18" SANITARY SEWER

proposed curb alignment

proposed 78" S.W.D.

M.O.P. MAIN

TRACK

plug pipe

NOTE: DUCTILE IRON PIPE Shall be Thickness CLASS 3

"GENERAL NOTES"

1. Excavation and backfill construction around existg K.G.& E. cables is to be under the supervision and direction of the K.G.& E. Co.
2. All sand backfill is to be flushed and vibrated.
3. Abandoned sewer pipes cut by sanitary sewer construction, are to be plugged with concrete & masonry. These plugs shall be bid as pipe plugs.
4. All castings, and lids removed to be delivered to the CITY of WICHITA material yard.
5. All locations of existing & proposed utility lines shown on plans are approximate, for information and identification purposes only. Contractor shall be responsible for locating lines exactly and any damage to utility lines in service.

NOTE: FIELD ENGINEER IS TO VERIFY FLOW ELEVATION AT STATION 9+00 PRIOR TO CONSTRUCTION.

SEE SHEET 2 OF 2 FOR INDEX OF PLATES

STA 0+00 CONST STD M.H. TYPE "A" over existg 18" Sanitary Sewer & plug pipe outlet

STA 1+18 CONST STD M.H. TYPE "A"

STA 6+78 CONST STD M.H. TYPE "A"

STA 7+10.5 CONST STD M.H. TYPE "A"

STA 7+60.5 CONST STD M.H. TYPE "A" over existg 8" San. "Remove existg M.H. & plug pipe east"

STA 7+83.2 Remove existg M.H.

STA 0+50 CONST STD M.H. TYPE "A"

set rim @ 1132

set rim @ 1129.50

existing ground

set rim @ 1129.50

set rim @ 1117.5

set rim @ 1129.50

EXISTG 18" SANITARY

21" CLAY PIPE @ 0.102%

existg 8" San. & 18" Storm Sewer

LINE No. 1

LINE No. 2

710.5 LIN FT OF 21" CLAY PIPE @ 0.102%

50 L.F. 20" DUCTILE IRON PIPE. rim 1117.50

REMOVE M.H. & connect pipes. "plug pipe east"

EXISTG 21" CLAY PIPE

22.7 L.F. 21" CLAY PIPE @ 0.102%

EXISTG 8" CLAY PIPE

STA 6+78 LINE No. 1 STA 0+00 LINE No. 2

STA 0+50 CONST STD M.H. TYPE "A" 0+00

set rim @ 1129.50

8" Stub out Elv 1128.17

8" in 1078

LINE No. 2

50 L.F. 8" CLAY PIPE @ 0.39%

8" out 1078.5

0+00 | 1+18 | 2+00 | 3+00 | 4+00 | 5+00 | 6+00 | 7+00 | 7+10.5 | 7+60.5 | 7+83.2

Relocation of Sanitary Sewer Between Wichita and Main Streets — 2nd to 3rd Street.

Revised 4-7-75

PLATE 1 PLAN-PROFILE
KEUFFEL & ESSER CO.

"THIMBLES"
Field engineer to take ties to irons in thimbles prior to construction.

"SPUR TRACKS"
Spur tracks are to be removed by "others"

N

B.M. = 1.279'0" So. face Walk. S.E. 2ND ST. E.L. ALLEY W. of WATER ST. (N.W. cor bldg 205 W. 2ND ST.)

"SEWER EXCAVATION"
Suitable excavated material from sewer projects is to remain on the site, to be used as fill for street parkings, and grading of Block 2. Excess material to be removed by paving contractor.

0+00

STREET

STA 0183 BEGIN 72" R.C.P.
NOTE: PLUG WITH PRECAST REINF CONC PLUG. COST TO BE INCLUDED IN BID PRICE OF LIN FT 72" R.C.P.

M.O.P. R.R.

proposed curb Alignment

WICHITA STREET

649.3 L.F. 72" R.C.P.

LINE No. 1

SPUR TRACK

PROPOSED 81" CLAY SANITARY SEWER.

PROPOSED 8" SANITARY SEWER

STREET

207.61'

89° 56' 51"

47'

61'

2ND

ADMINISTRATIVE
Reserve "A"

WATER

CENTER

PLAN SCALE 1"=20'
profile 1"=5' vert
1"=50' Horiz

natural ground

bottom proposed pvmt

72" R.C.P. @ 0.16%

(78" C.M.P. ALTERNATE)

PLUG

LINE No. 1

649.3 L.F. 72" R.C.P. @ 0.16% GRADE

(78" CORRUGATED METAL PIPE ALTERNATE)

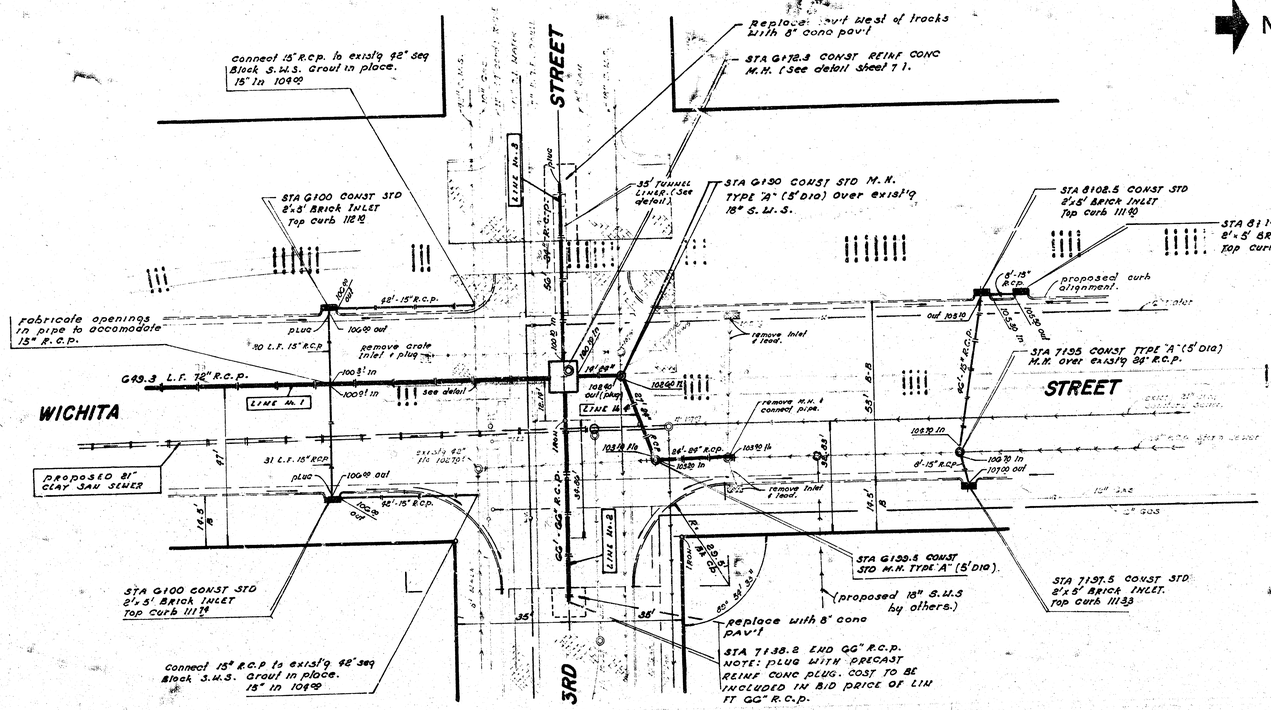
115 110 105 100 95 90

0100 0123 0150 1100 1150 2100 2150 3100 3150 4100 4150 5100

STORM SEWER CONSTRUCTION in WICHITA STREET. 2nd Street to 3rd Street.

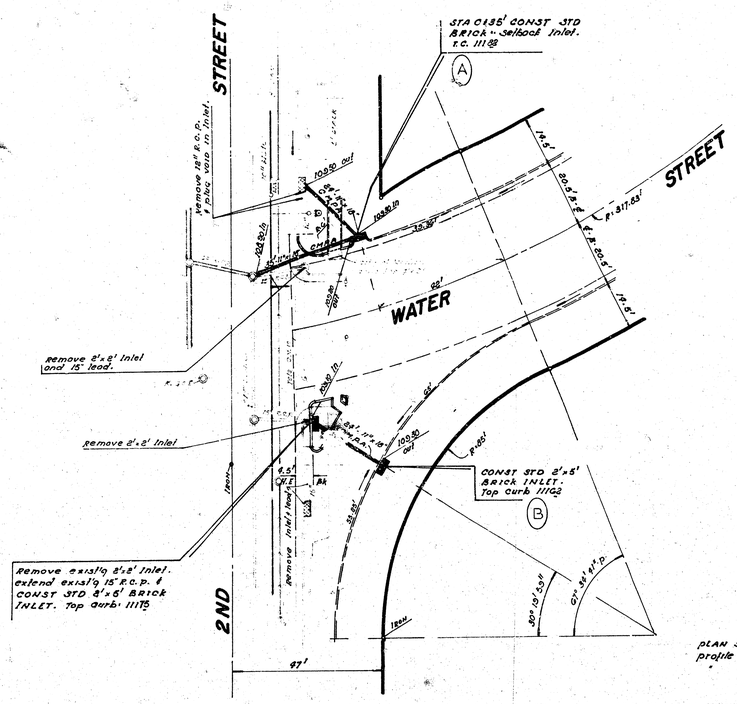
B.M.= 11243 "D" N.E. cor conc base - signal light N.E. cor 3RD and WICHITA
B.M.- 11338 S.E. cor conc base. R.R. signal box. N.W. cor CENTRAL and WICHITA

N



NOTE: WHEN ALTERNATE C.M.P. IS USED 15" C.M.P. IS TO BE SUBSTITUTED FOR 15" R.C.P.

B.M.= 11279 "D" So. face walk at S.L. 2ND ST and E.L. Alley W. of WATER. (N.W. Cor bldg 205 W. 2ND).



PLAN SCALE 1"=20'
profile 1"=5' vert
1"=10' Horz

NOTE: All locations of existing & proposed utility lines shown on plans are approximate for information and identification purposes only. Contractor shall be responsible for locating lines exactly and any damage to utility lines in service.

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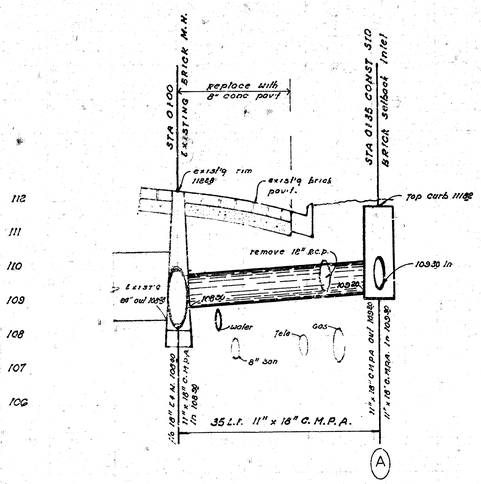
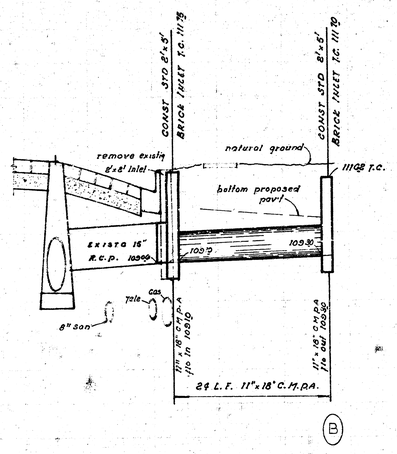
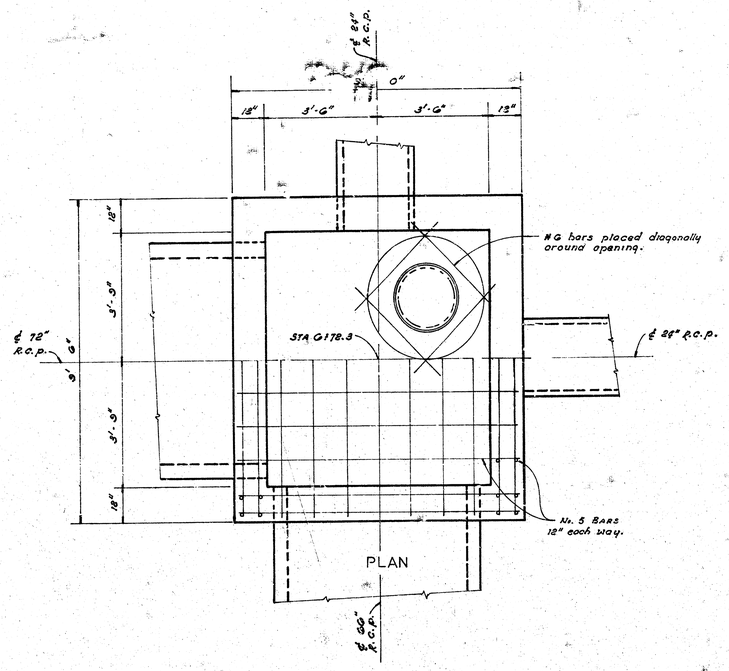
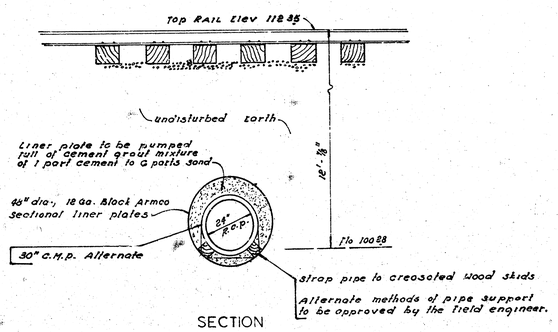


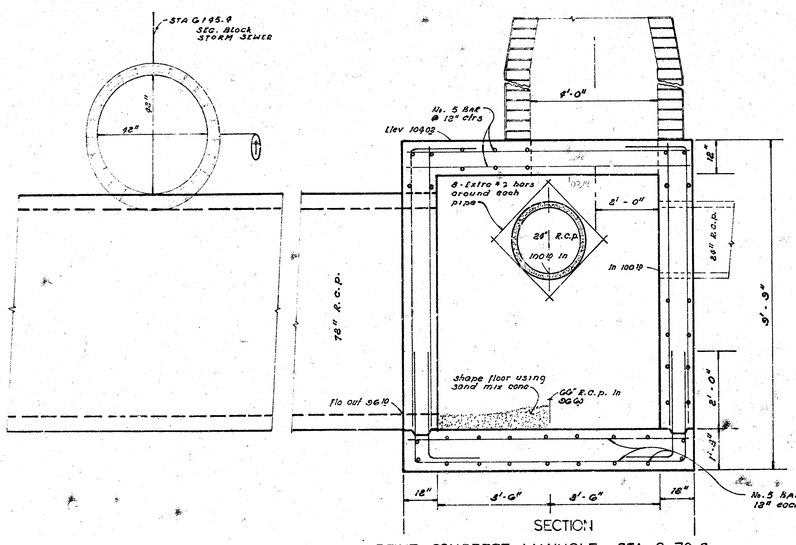


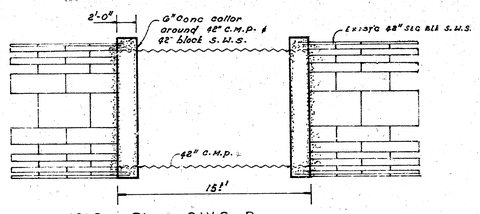


PLAN



SECTION
TUNNEL UNDER M.O.P. R.R. Main Track





42 Seg Block S.W.S. Repair

① The portion of existing 42" segmented block storm water sewer removed is to be repaired with 42" corrugated metal pipe and grouted in place to remain in service. The concrete collars are to be included in the bid price for lin ft 42" C.M.P.

"REINF CONCRETE MANHOLE" Concrete for Reinf concrete Manhole shall be 6 sack paving mix. The price bid for REINF CONCRETE MANHOLE shall include the cost of excavation, furnishing and placing concrete, bricks, cover plate, and reinforcing steel.

"GENERAL NOTES"

#1 All sand backfill is to be flushed and vibrated.

#2 Abandoned sewer pipes, cut by the storm water sewer construction, are to be plugged with concrete masonry. These plugs shall be bid as "pipe plugs".

#3 The bid price for lin ft of tunnel liner is to include placing of liner, grouting, and all necessary tools and equipment to complete liner in place, except the cost of 84" R.C.P.

#4 All castings, grates and lids removed to be delivered to the city of WICHITA material yard.

#5 All locations of existing & proposed utility lines shown on plans are approximate for information and identification purposes only. Contractor shall be responsible for locating lines exactly and any damage to utility lines in service.

#6 Excavation and backfill construction around exist'g K.G.& E. cables is to be under the supervision and direction of the K.G.& E. Co.

B.M. "112 T9 D" So. face W.W.X. of S.E. end of W.S.E. Conc. Hdwl. at N. edge of Wichita St. (U.S.M. Grid Sta. 208 W. 0 N.)

N

SCALE 1"=20'

STREET

WATER

2ND

STREET

Match

Saw & Match

proposed Bituminous base pav't.

Saw Exist'g Base at High Edge Extended.

Ramp Walk

proposed 6' sidewalk

proposed 5' Sidewalk.

P.C. 0+00

P.I. N.V.C.

P.R.C. 1+83.92

1 ea. 4' MH 10.884 Fl.

1 ea. 191 Fl. 10.4' MH

R=317.83'

R=868.83'

Δ=35°09'22"

Δ=38°03'22"

Δ=19°59'00"

61°38'41"

30°19'38"

- 0.51 Ft.

"REMOVAL"

THE EXACT LIMITS OF REMOVAL AT SIDE STREETS SHALL BE DETERMINED BY THE FIELD ENGINEER. CONSISTENT WITH Exist'g JOINT LOCATIONS.

Medial Detail

High edge

Const solid conc nose section.

Exist'g Asphalt

proposed 1½" S.C.M.P.A.

Const 2" Asph Surface

Compacted select Fill

WIDTH VARIES

8" Reinf Conc Pav't & Integral curb

Exp Jt

varies

Sidewalk Ramp

NOTE: TYPE OF SUBGRADE TREATMENT SHALL BE DETERMINED BY THE FIELD ENGINEER. SUBGRADE TREATMENT MAY CONSIST OF LIME TREATMENT, CEMENT TREATMENT, SUBGRADE MODIFICATION, OR ANY COMBINATION OF THESE.

CURVE DATA IS BASED ON ℄ RADIUS = 317.83' Δ = 35° 09' 22" TAN = 94.62' 05.90315 Min/11 Arc

STATION	ARC	CHORD & L.S. W. Curb	LENGTHS & L.S. E. Curb	DEFLECTION	TOTAL DEFLECTION
p.c. 0100	—	—	—	0° 00' 00"	0° 00' 00"
125	25.00'	22.75'	27.20'	2° 15' 12"	2° 15' 12"
150	"	"	27.19'	2° 15' 12"	4° 30' 24"
175	"	"	27.20'	2° 15' 12"	6° 45' 37"
1+00	"	"	27.19'	2° 15' 12"	9° 00' 49"
125	"	"	"	"	11° 16' 01"
150	"	"	27.19'	2° 15' 12"	13° 31' 13"
175	25.00'	22.78'	27.20'	2° 15' 12"	15° 46' 30"
p.r.c. 1+83.92	8.92'	8.13'	9.71'	0° 93' 15"	16° 39' 61"

"EXCAVATION"
3,461.2 CU YDS
10% 346.1 " "
3,807.3 CU YDS

"COMP FILL"
162.5 CU YDS
10% 16.3 " "
178.8 CU YDS

"SEWER EXCAVATION"
Suitable excavated material from sewer projects is to remain on the site, to be used as fill for street portings and grading of Block 8. Excess material to be removed by paving contractor.

PAVING CONSTRUCTION
WICHITA STREET — 2ND to CENTRAL
WATER STREET — 2ND to WICHITA

PARKING REPAIR — Between Wichita and Main Street. North Side 2nd Street & South Side 3rd Street.

Revised 12/5/74

B.M.: 11879 "T" So. face wall: S.L. 2ND ST · E.L. ALLEY W. of WATER (N.W. cor. bldg 305 W. 2ND ST.)

NOTE: FIELD ENGINEER to Re-cross section after Spur tracks have been removed.

N

SCALE 1"=20'

GRADE AREA BETWEEN TRACKS AND STREET TO DRAIN INTO STREET FROM 2ND TO 3RD.

0+00 | 0+23 | 0+47 | 1+00 | 1+50 | 2+00 | 2+50 | 3+00 | 3+50 | 4+00 | 4+50 | 5+00 | 5+47.61 p | p.i. No. V.C. 6+00 | 6+22.3

-0.38%

Warp section

STREET

Warp high edge

M. O. P.

R. R.

taper cb in 3'

match

Typical section of pvt detail. See Sheet 13

WICHITA

STREET

proposed 72" R.C.P. STORM SEWER

proposed 8" clay Sanitary Sewer

conc. taper cb

Conc. cb

Conc. curb & gutter

Warp curb & gutter Section.

proposed 5' Sidewalk.

ADMINISTRATIVE CENTER

Reserve "A"

2ND

WATER

P.R.C. 1+83.92

p.i. No. V.C.

El: 11880 G1 0.8% V.C.

P.T.

P.I. El: 11870

G+22.3

+0.89%

-0.76%

5+60.75 bk

5+47.3 ahead

CURVE DATA IS BASED ON ℄ RADIUS = 397.83' = 72.0' V.C.
Δ = 55° 90' 19" TAN = 209.78' DE 8.3208 MID. ORD. Arc 67.8

STATION	ARC	CHORD 6'0.3. West cb	CHORD 6'0.3. tost cb	LENGTHS DEFLECTION	TOTAL DEFLECTION
P.R.C. 1+83.92	——	——	——	0° 00' 00"	0° 00' 00"
2+00	16.08'	17.26'	19.92'	1° 11' 12"	1° 11' 12"
25	25.00'	26.60'	23.19'	1° 50' 98"	3° 02' 04"
50	"	"	"	1° 50' 98"	4° 52' 52"
75	"	"	"	1° 50' 98"	6° 43' 90"
3+00	"	"	"	1° 50' 98"	8° 35' 88"
25	"	"	"	1° 50' 98"	10° 25' 86"
50	"	"	"	"	12° 16' 04"
75	"	"	"	"	14° 06' 52"
4+00	"	"	"	"	15° 57' 90"
25	"	"	"	"	17° 20' 88"
50	25.00'	26.60'	23.19'	1° 50' 98"	19° 39' 16"
4+67.8	17.8'	19.08'	16.51'	1° 18' 56"	20° 58' 10"
5+00	32.2	34.51'	29.87'	2° 28' 43"	23° 20' 53"
25	25.00'	26.80'	23.19'	1° 50' 98"	25° 11' 91"
50	25.00'	26.80'	23.19'	1° 50' 98"	27° 02' 89"
P.T. 5+60.75	10.75'	11.53'	9.57'	0° 97' 36"	27° 50' 07"

Revised 12/5/74

survey: Area plan: altitude ties: shocked

B.M. - 1184.8 "D" N.E. cor conc base - Signal light - N.E. corner 3RD and WICHITA.
B.M. - 1158.8 S.E. cor conc base - R.R. Signal box - N.W. corner CENTRAL and WICHITA.

N

"T H I M B L E S"
FIELD ENGINEER to take ties to all thimbles destroyed by new construction. re-place iron and install thimble in new pav't.

■ DENOTES 2'x3' proposed brick INLETS.

Grade area between street and tracks from Sta 81+20± to Sta 121+90± to drain in swale and then into street at Sta 81+20±. to be considered as subsidiary to other items of work.

STREET

WICHITA

STREET

3RD

Proposed Parking Lot

ADMINISTRATIVE (police)

CENTER (garage)

M.O.P.

R.R.

7+22.3 | 7+50 | 8+00 | 8+50 | 9+00 | 9+50 | 10+00 | 10+50 | 11+00 | 11+50 | 12+00 | 12+50

p.t. Elev 111.33 50' V.C.

Warp section

-0.500%

+0.229%

Const 6" walk bet planting & bk curb, with 4' ramp section and 6" curb & g. to lip of bk curb. (Both sides) (see detail)

See header detail (Std. 18)

6" CONC

66' R.O.W.

See detail (Std. 18)

R=30'

26' Drive

30' Drive

proposed 5' sidewalk.

Warp Section

-0.847%

+0.229%

±0.4' Walk Grade

p.i. Elev V.C.

G+72.3m

G+22.3

G+37.3

7+07.3

7+22.3

Sidewalk

Ramp

Revised 12/5/74

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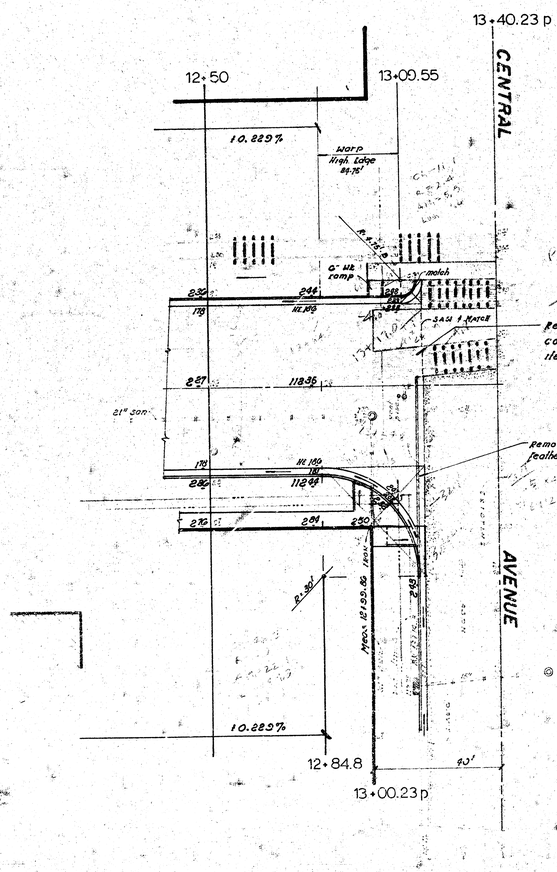
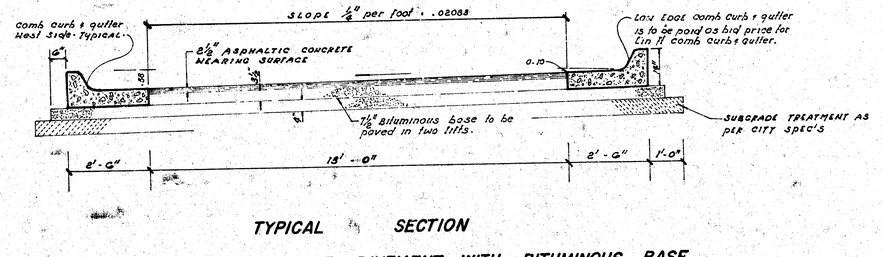
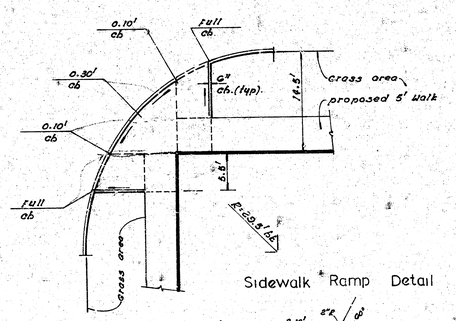


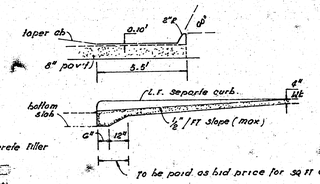


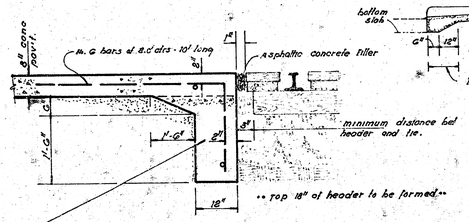
TYPICAL SECTION

18' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE



Sidewalk Ramp Detail





R.R. CROSSING HEADER DETAIL

This area to be paid as bid for cu yards special excavation, and cu yds concrete.

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SCALE 1"=20'

3RD STREET

remove exist'g alley return and const comb curb & gutter thru opening.

remove exist'g drive. Const comb curb & gtr thru opening

const comb curb & gutter thru drive opening.

match

WALK REMOVAL TO BE CONSISTENT WITH EXIST'G JOINT LOCATIONS.

CONSTRUCT 4" WALK - 5' WIDE THRU OPENING.

REMOVE 6'x6' GRATE INLET and PLUG LEAD.

REMOVE 6'x6' CURB INLET and PLUG LEAD.

remove exist'g pav't and const comb. curb & gutter thru opening. Const 4" walk - 4' wide to match exist'g walk. REPLACE PAV'T WITH 8" CONC PAVEMENT.

REMOVE 6'x6' CURB INLET and PLUG LEAD.

NOTE: Bid price for inlet removal is to include. Sand back fill. All castings, grates and lids removed to be delivered to the city of Wichita material yard.

NOTE: 3' width comb curb & gutter replaced is to be paid as bid price for lin feet of combined curb and gutter.

match high edge

remove exist'g alley return and construct comb curb & gutter thru opening. construct 4" walk - 4' wide to match exist'g walk.

MAIN STREET

WICHITA STREET

taper top curb

Trucks, tires, and planking removal is to be considered as subsidiary to other items of work.

NOTE: Intersection detail see sheet No. 10

WATER STR.

proposed 5' sidewalk

cut in pav't

2ND STREET

Remove 6'x6' INLET & PLUG LEAD.

remove exist'g pav't and const comb curb & gutter.

Saw joint at high edge line where directed by the engineer. patch in with hot asphalt mix where necessary.

remove exist'g asph surface only, feather asph to match new construction.

remove exist'g drive. const comb curb & gtr thru opening.

"PARKING REPAIR"

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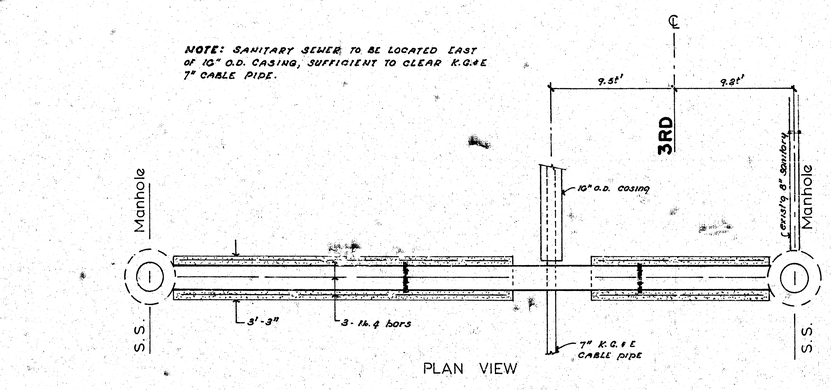
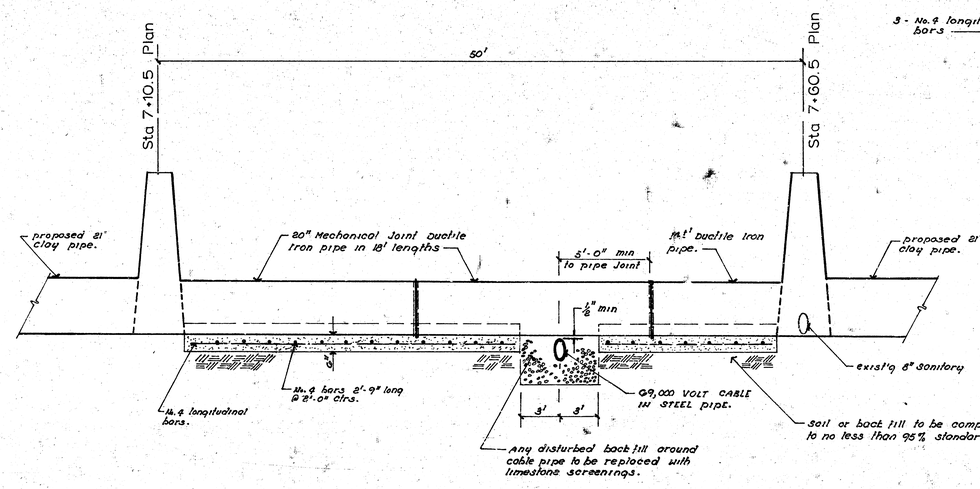
PLAN SCALE 1"=50'

NOTE: SANITARY SEWER TO BE LOCATED EAST OF 10" O.D. CASING, SUFFICIENT TO CLEAR K.G.&E 7" CABLE PIPE.

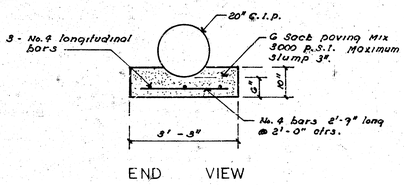


PLAN VIEW

WICHITA STREET



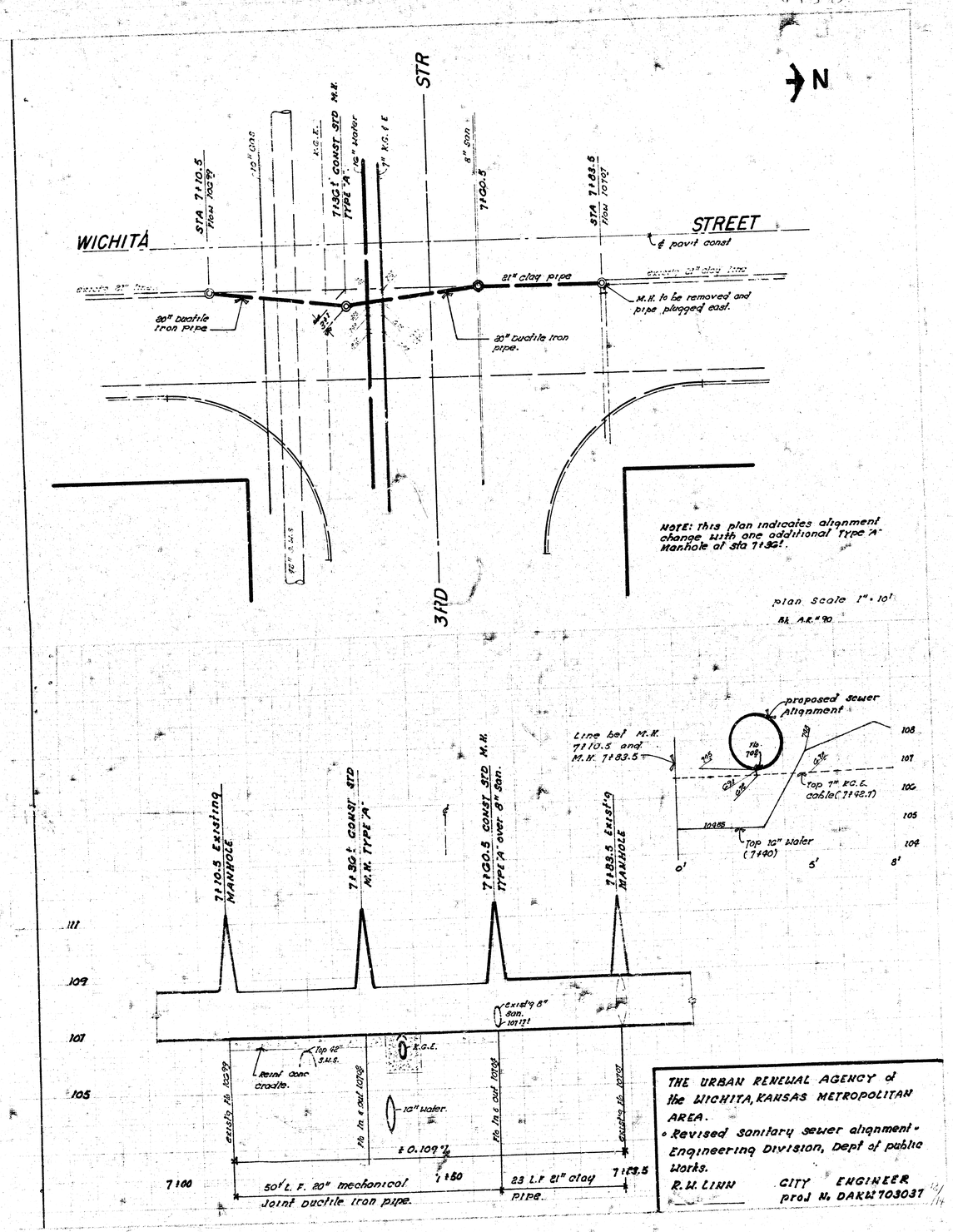
ELEVATION



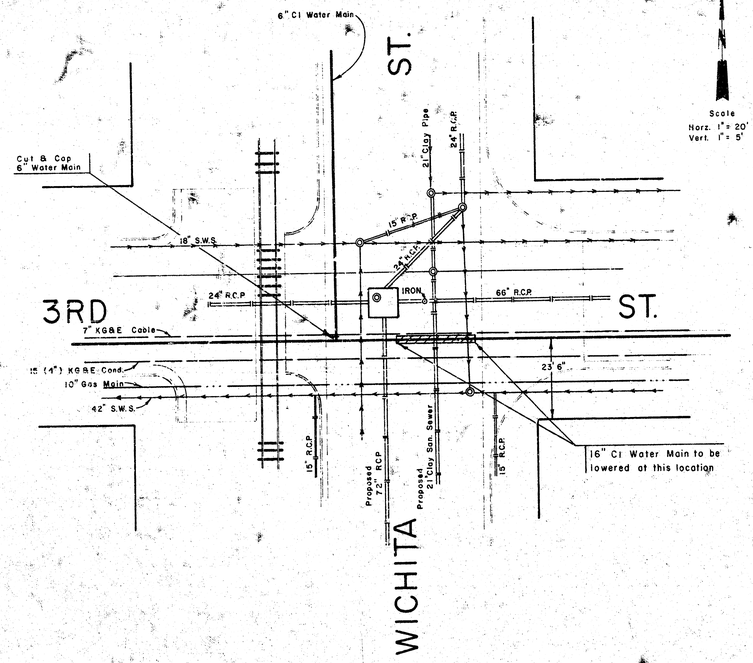
END VIEW

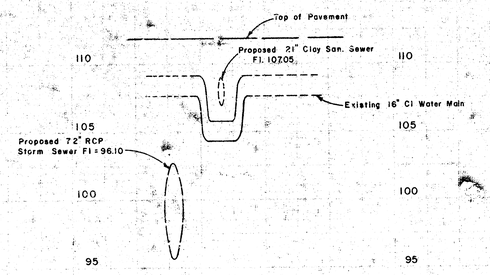
THE URBAN RENEWAL AGENCY
of the
WICHITA, KANSAS METROPOLITAN AREA
Sanitary Sewer Relocation
Storm Sewer Construction
Paving Construction
NEIGHBORHOOD DEVELOPMENT PROGRAM
ADMINISTRATIVE CENTER ACTIVITY AREA
Engineering Division, Dept. of Public Works
R.W. LINN CITY ENGINEER
KANSAS R-19

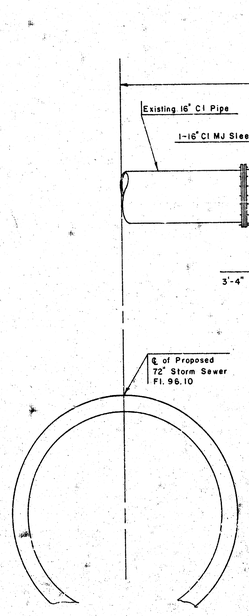
W-13-8

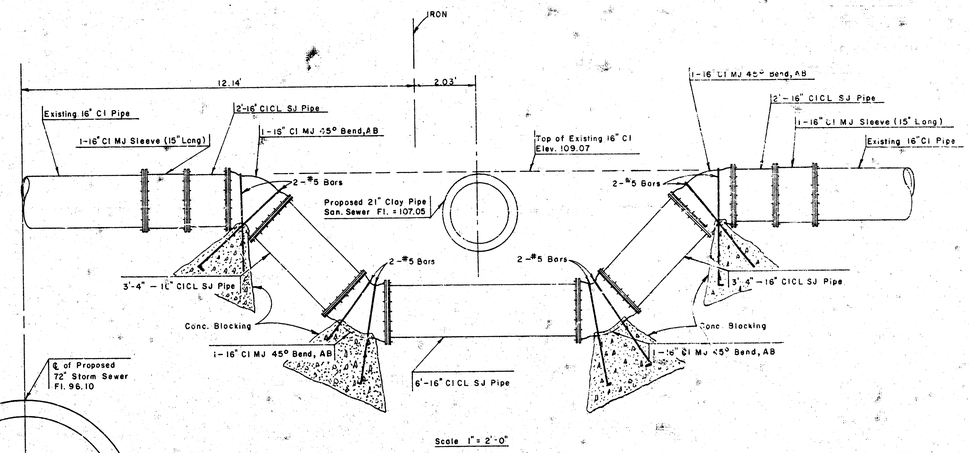


THE URBAN RENEWAL AGENCY of the WICHITA, KANSAS METROPOLITAN AREA.
Revised sanitary sewer alignment.
Engineering Division, Dept of public Works.
R. W. LINN CITY ENGINEER
proj N. DAKW 703037









Scale 1" = 2'-0"

SPECIFICATIONS

1. All Materials to be Furnished and Installed by the Contractor. The Water Dept. will shut down the main.
2. The Contractor will remove the existing 16" Cast Iron Pipe, leaving a smooth cut at right angles to the axis of the pipe at each end.
3. All Cast Iron Pipe and Fittings to be wrapped with 8 mil. thickness Polyethylene Film and sand encased with a 6" min. on all sides of the pipe.
4. Concrete thrust block will contain approximately two cu. yd. of Concrete each.
5. Cast Iron Pipe will be cut to exact length or spacer rings cut from the same diameter pipe will be used to remove any slack in the new pipe and fittings.
6. Cast Iron Pipe and [illegible] to meet all Water Department Specifications. Thick[illegible] I. Ductile Iron pipe may be used in lieu of Cast [illegible] pe.
7. Excavation in street right-of-way shall be backfilled with sand that is jetted flushed and vibrated except the top twelve inches which is to be compacted topsoil free from rock. All backfill to meet City of Wichita Standards.

20/20

WATER LINE RELOCATIONS

1/1

12 1 3 8

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