STORM SEWER PLANS FOR

PHASE 1

BEACON VILLAGE

S.W.S. NO. 388

PROJECT NO.

468·76·245·81979·000·00C·001

INDEX NO. 750034

CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, CITY ENGINEER

JULY , 1989

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.

2. THE TOPS OF INLET AND MANHOLE AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATIONS OR PAVEMENT ELEVATIONS. THE FIELD ENGINEER SHALL LOCATE INLETS AND MANHOLES WITH REFERENCE TO PROPOSED PAVING PLANS OF THE PERTINENT STREETS. INLET DEPRESSIONS NEED TO TIED TO CURB, GUTTER AND PAVING.

3. ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS OTHERWISE NOTED.

4. UNDERGROUND UTILITY SERVICE LINES AND OVERHEAD UTILITY POLE LINES ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT OF WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

NOTE: NOTIFY THE FOLLOWING COMPANIES PRIOR TO ANY EXCAVATION:

KANSAS ONE-CALL	1-800-344-7233
BELL TELEPHONE COMPANY	1-316-571-2115
CABLEVISION	262-4270 or 263-2061
KPL GAS COMPANY	263-7511
KANSAS GAS & ELECTRIC	264-1141
CITY OF WICHITA WATER DEPT.	268-4908
CITY OF WICHITA SEWER DEPT.	268-4071
CONTINENTAL PIPELINE CO. (CONOCO PIPELINE CO.)	1-405-767-2367

5. TREES TO REMOVED ARE MARKED ⊗. ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.

6. THE INLET DETAIL SHEETS IN THIS SET OF PLANS REFLECT THE RECENT MODIFICATIONS WHICH HAVE BEEN MADE TO THE STANDARD CITY OF WICHITA TYPE 1-A CURB INLETS. THESE DETAIL SHEETS NEED TO BE REVIEWED BY CONTRACTOR.

7. BEACON HILL WOOD FENCE WILL NEED TO BE REMOVED FOR CONSTRUCTION AND REPLACED AFTER CONSTRUCTION.

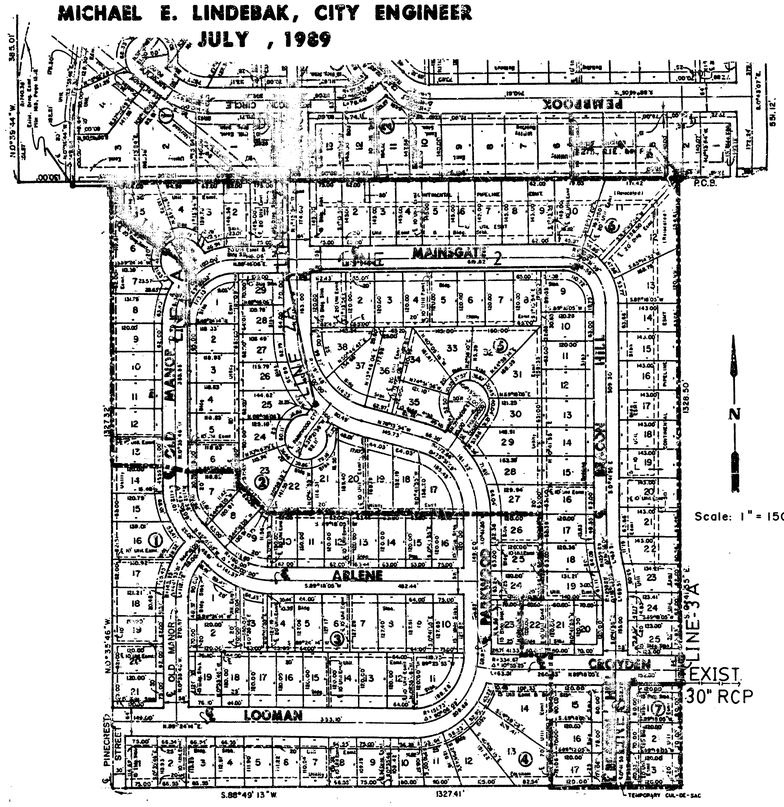
BENCH MARKS

B.M. #1: "□" Cut on Top of Curb between Lots 1 & 2, Block 1, Beacon Hill Addition.
ELEV. = 173.45

B.M. #2: "□" Cut on Top of Curb between Lots 9 & 10, Block 2, Beacon Hill Addition.
ELEV. = 177.34

B.M. #3: "□" Cut on Top of Curb at West end of Southwest return at Pembrook and Ridgewood.
ELEV. = 175.28

B.M. #4: "□" Cut on Top of Curb at North end of Northwest Return Ridgewood & Croyden.
ELEV. = 184.21



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4	PLAN & PROFILE LINE 2
5	PLAN & PROFILE LINE 2A
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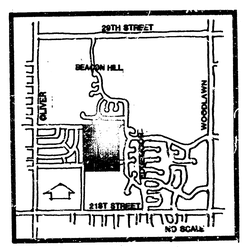
8	TYPE 1-A CURB INLET DETAILS (5-FT. OPENING)
9	TYPE 1-A CURB INLET DETAILS (10-FT. OPENING)
10	STD. SHALLOW TYPE "B" MANHOLE DTLS.
11	DROP INLET DETAIL
12	FINAL PLAT



LOCATION MAP

Booked 12/89 mcg



BEACON VILLAGE
PHASE I
STORM WATER SEWER PLANS

Design: JNI
Drawn by: CLM
Checked by:
Date: JULY, 1989
Job no:

MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING #800
WICHITA, KANSAS 67226
636-5566

Sheet 1 of 12

MKEC PROJ. NO. 89-28-113-D

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BEACON VILLAGE - PHASE I
STORM WATER SEWER NO. 388
PROJ. NO. 468-76-245-81979-000-000-001

PLAN LINE 1

PROFILE LINE 1

Scale: 1" = 20' Horiz.
1" = 5' Vert.

26.7 S.Y. Light Stone Rip-Rap

Sta. 0+10, Line 1
Begin 42" RCP Storm Sewer
With End Section
& Grouted Rip-Rap Toe Wall
2' Wide
2' Deep
10' Long
(Cost Subsidiary To Rip-Rap)

Sta. 1+12, Line 1
Const. Special Reinf. Conc. Manhole
M.H. Top = 177.50
See Detail Sheet No. 7

Sta. 2+17, Line 1
Const. Special Reinf. Concrete
Manhole / Area Inlet
W = 7'-0", L = 7'-0"
Inlet Top = 175.75
See Detail Sheet No. 7

Sta. 2+94.6, Line 1
Const. Special Reinf. Conc. Manhole
M.H. Top = 176.50
See Detail Sheet No. 7
(+) 1" Top Of Pipe To Bottom Of Top Slab

Sta. 4+67.2, Line 1 =
Sta. 0+00, Line 1A
Const. Special Reinf. Conc. Manhole
M.H. Top = 176.21
See Detail Sheet No. 7

Sta. 4+254 Line 1
Const. Std. Type 1-A Curb Inlet (Sump)
W = 4'-4", L = 11'-4"
Inlet Top = 175.37
3-Ft. SW (℄ Front Wall To Property
Line Extended)
36.5-FT. (℄ Cul-De-Sac To Front
Exterior Wall)

Sta. 5+25.5, Line 1
Const. Std. Type 1-A Curb Inlet (Sump)
W = 4'-4", L = 11'-4"
Inlet Top = 175.95
Centered On ℄ Of Old Manor Circle
15.5' (℄ To Front Exterior Wall)

Sta. 0+10, Line 1
Begin 48" RCP Storm
Sewer With End Section

Sta. 1+12, Line 1
Const. Special Reinforced
Concrete Manhole
M.H. Top = 177.50
See Detail Sheet No. 7

Sta. 2+17, Line 1
Const. Special Reinf.
Conc. Manhole / Area Inlet
W = 7'-0", L = 7'-0"
Inlet Top = 175.75
See Detail Sheet No. 7

Sta. 2+94.6, Line 1
Const. Special Reinforced
Concrete Manhole
Inlet Top = 176.50
See Detail Sheet No. 7
(+) 1" Top Of Pipe To Bottom
Of Top Slab

Sta. 4+25.4, Line 1
Const. Std. Type 1-A
Curb Inlet (Sump)
W = 4'-4", L = 11'-4"
Inlet Top = 175.37
3-Ft. SW (℄ Front Wall To
Property Line Extended)
36.5-Ft. (℄ Cul-De-Sac To
Exterior Wall)

Sta. 4+82.2, Line 1A
Sta. 0+00, Line 1A
Const. Special Reinf
Conc. Manhole
Wall Top = 176.21
See Detail Sheet No. 7

Sta. 5+25.5, Line 1
Const. Std. Type 1-A
Curb Inlet (Sump)
W = 4'-4", L = 11'-4"
Inlet Top = 175.95
15.5' (℄ To Front Exterior
Wall) To ℄ Of Old
Manor Circle

Existing Ground

Proposed Street Grade

Prop. 8" Water
Top = 172.79

Prop. 4" Water
Top = 167.50

Grouted Rip-Rap Toe Wall
2' Wide x 2' Deep x 10' Long
(Cost Subsidiary To Rip-Rap)

10'-L.F.-48" RCP @ 0.20%

103 L.F.-48" RCP @ 0.20%

176 L.F.-48" RCP @ 0.21%

130.8 L.F.-48" RCP @ 0.20%

41.8 L.F.-29"x45" HERCP @ 0.19%

58.3 L.F.-24" RCP @ 0.21%

ELEVATION IN FEET (WICHITA DATUM)

180
175
170
165
160

0 1 2 3 4 5

COORDINATE SYSTEM AS USED BY MKEC FOR FINAL PLAT
BEACON HILL & BEACON VILLAGE

POINT #	NORTH COORDINATE	EAST COORDINATE	COMMENTS
32	9610.7091	4160.8796	Reserve 'B' Corner
33	9607.7148	4030.9096	Reserve 'B' Corner
472	9614.0028	4314.0762	Lot Corner
8	9612.5070	4244.5000	Lot Corner
522	9411.3692	4292.9428	Face PT
526	9449.0409	4482.9907	Face PT
527	9458.3509	4444.8342	Face PC
541	9465.3495	4438.4877	Face PT
542	9418.3679	4386.6063	Face PC
1150	9390.8308	4391.3033	Lot Corner
1166	9408.3003	4375.4868	Lot Corner
1429	9408.4999	4442.7546	℄ Old Manor Circle
1430	9444.6847	4533.7087	℄ Hatesgate
1444	9441.8687	4412.5520	℄ Old Manor Circle
2548	9426.9354	4364.8310	Lot Corner
2549	9468.1868	4370.0446	Lot Corner
2550	9545.5106	4246.1970	Lot Corner
2551	9488.5184	4395.6587	Lot Corner
2552	9624.7854	4360.4756	Lot Corner
2554	9477.0703	4448.0505	Lot Corner
573	9687.4329	4108.8789	0+10, Line 1
572	9600.6798	4159.6249	1+12
568	9602.9368	4264.6007	2+17
563	9525.2956	4265.4085	2+94.6
558	9458.9999	4377.8886	℄ Curb Inlet
554	9436.8259	4413.5069	4+67.2
546	9395.4010	4454.6141	℄ Curb Inlet

MKEC PROJ. NO. 89-28-113-D

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BEACON VILLAGE
STORM WATER SEWER NO. 388
PROJ. NO. 468-76-245-81979-000-000-00

Scale: 1" = 20' Horiz.
1" = 5' Vert.

Sta. 0+00, Line 1A=
Sta. 4+67.2, Line 1
Const. Special Reinf. Conc. Manhole
M.H. Top = 176.21
See Detail Sheet No. 7

Sta. 0+00, Line 2
Exist. Type I-A Curb Inlet
W=7'-4", L=6'-4"
Inlet Top = 174.52
Remove South Wall Of Exist. Curb Inlet
Remove Exist. 54" RCP Stub
Match inside Walls of Inlet and RCB
See Detail Sheet No. 7

② BEACON
Sta. 1+44, Line 1A
Const. Std. Shallow Type "B" Manhole
Dia. = 5', Manhole Top = 176.50
With Grate Cover.
(Top To Be Raised in Future With Future Street Paving) Stub One (1) Section Of 24" RCP South (Parallel To Street ℄) @ 1.25% Slope & Temporary Plug, Grade Ground Around Manhole Top To Form Sump.

① BEACON
Sta. 2+253, Line 2 (Sump) =
Sta. 0+00, Line 2A
Const. Top Type I-A Curb Inlet On Top Of R.C.B.
W=4'-4", L=11'-4"
Inlet Top = 175.98 To be paid as Std. Inlet.
Street Sta. 19+96.26, Parkwood
18.5 Ft. Lt. (℄ To Front Exterior Wall - R.C.B.)
See Detail Sheet No. 7

Sta. 3+03.8, Line 2 (Grade)
Const. Std. Type I-A Curb Inlet
W=5'-4", L=11'-4"
Inlet Top = 175.95
Street Sta. 25+34.19, Mainsgate's
15.5 Ft. Lt. (℄ To Front Exterior Wall)

Sta. 2+69.1, Line 2 (Sump)
Const. Std. Type I-A Curb Inlet
W=6'-4", L=11'-4"
Inlet Top = 175.48
Street Sta. 19+96.26, Parkwood
18.5 Ft. Rt. (℄ To Front Exterior Wall)

COORDINATE SYSTEM AS USED BY MKEC FOR FINAL PLAT
BEACON HILL & BEACON VILLAGE

POINT #	NORTH COORDINATE	EAST COORDINATE	COMMENTS
501	9303.4062	4410.7248	Face PC
511	9303.1149	4382.7284	Face PC
521	9372.4781	4388.4269	Face PC
522	9411.3692	4392.9428	Face PT
525	9449.0409	4462.9907	Face PT
542	9418.3679	4386.4063	Face PC
1149	9302.9585	4267.7271	Lot Corner
1150	9390.8308	4391.3033	Lot Corner
1166	9408.3083	4375.6868	Lot Corner
1427	9303.2606	4396.7256	℄ Old Manor
1429	9408.4999	4442.7546	℄ Old Manor
1444	9441.8587	4412.5520	℄ Old Manor Circle
1472	9303.5622	4425.7240	Lot Corner
2545	9365.0780	4378.8651	Lot Corner
2548	9426.9364	4364.8310	Lot Corner
554	9436.8259	4413.5069	0+00, Line 1A
575	9292.8337	4415.0051	1+44 ℄ MH

COORDINATE SYSTEM AS USED BY MKEC FOR FINAL PLAT
BEACON HILL & BEACON VILLAGE

POINT #	NORTH COORDINATE	EAST COORDINATE	COMMENTS
313	9621.7840	4675.9926	℄ Parkwood
651	9434.6227	4717.0251	Face PC
652	9414.1975	4697.4596	Face PT
656	9433.0321	4642.0422	Face PC
657	9413.4666	4663.4675	Face PT
1211	9476.1297	4647.1168	Lot Corner
1216	9621.0962	4644.0000	Lot Corner
1287	9477.5084	4711.7826	Lot Corner
1431	9447.8262	4679.7327	℄ Mainsgate & Parkwood
1474	9418.1431	4648.3635	Lot Corner
1493	9419.5188	4712.3487	Lot Corner
2558	9476.5176	4672.1341	Lot Corner
2785	9421.2506	4796.7887	Lot Corner
2940	9479.1176	4786.0546	Lot Corner
2950	9480.4682	4849.6743	Lot Corner
1296	9630.1250	4653.4020	Sta. 0+00, Line 2
661	9404.8084	4698.5683	℄ Inlet & ℄ RCB
668	9405.7987	4702.3092	℄ Inlet
771	9430.6384	4.25.8927	3+03.8

PLAN LINE 1A

PROFILE LINE 1A

PLAN LINE 2

PROFILE LINE 2

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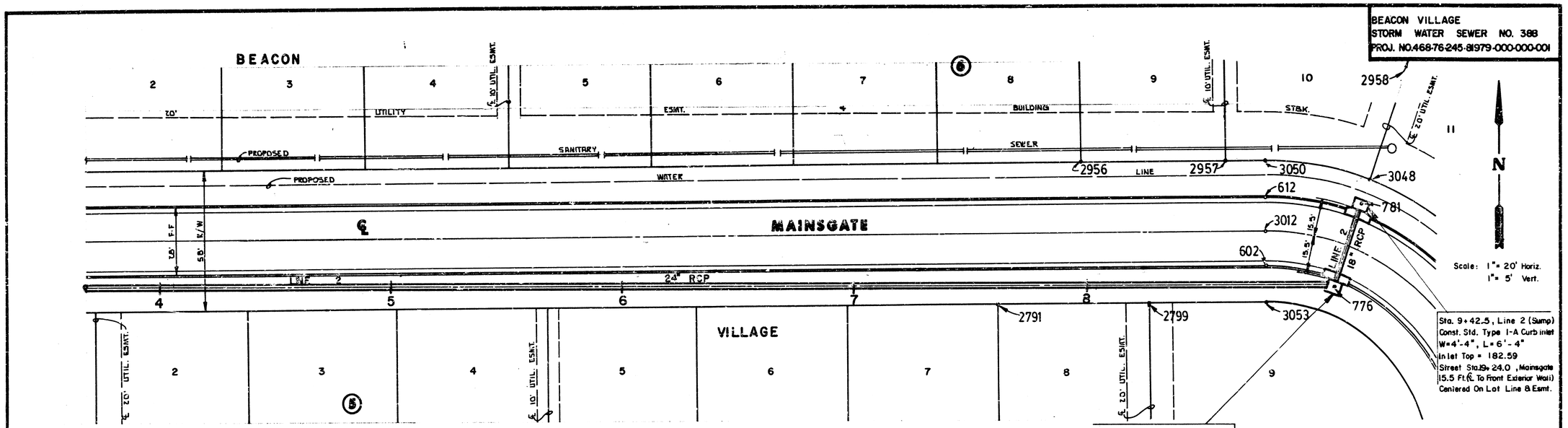
BEACON VILLAGE
STORM WATER SEWER NO. 388
PROJ. NO.468-76-245-81979-000-000-001



PLAN LINE 2

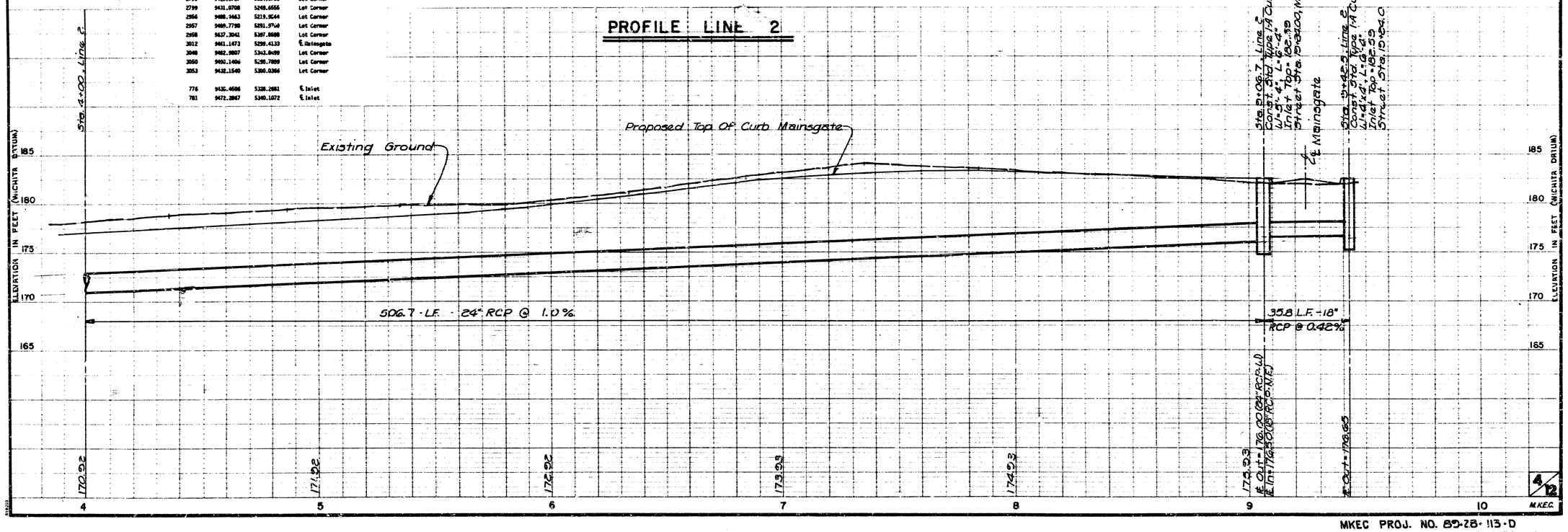
COORDINATE SYSTEM AS USED BY MKEC FOR FINAL PLAT
BEACON VILLAGE

POINT #	NORTH COORDINATE	EAST COORDINATE	COMMENTS
602	9447.1505	5299.7142	Face PC
612	9475.1441	5299.1124	Face PC
2791	9429.6737	5184.6706	Lot Corner
2799	9431.0708	5248.6555	Lot Corner
2956	9488.3463	5219.9244	Lot Corner
2957	9489.7790	5281.9760	Lot Corner
2958	9437.3041	5307.8888	Lot Corner
3012	9461.1673	5298.4133	℄ Mainsgate
3048	9482.8807	5343.8499	Lot Corner
3050	9493.1486	5290.7899	Lot Corner
3053	9432.1540	5360.0366	Lot Corner
776	9436.4686	5328.2681	℄ Inlet
781	9472.2867	5340.1072	℄ Inlet

Sta. 9+42.5, Line 2 (Sump)
Const. Std. Type I-A Curb Inlet
W=4'-4", L=6'-4"
Inlet Top = 182.59
Street Sta. 19+24.0, Mainsgate
15.5 Ft. ℄ To Front Exterior Wall)
Centered On Lot Line & Esmt.

Sta. 9+06.7, Line 2 (Sump)
Const. Std. Type I-A Curb Inlet
W=5'-4", L=6'-4"
Inlet Top = 182.59
Street Sta. 19+24.0, Mainsgate
15.5 Ft. ℄ To Front Exterior Wall)

PROFILE LINE 2



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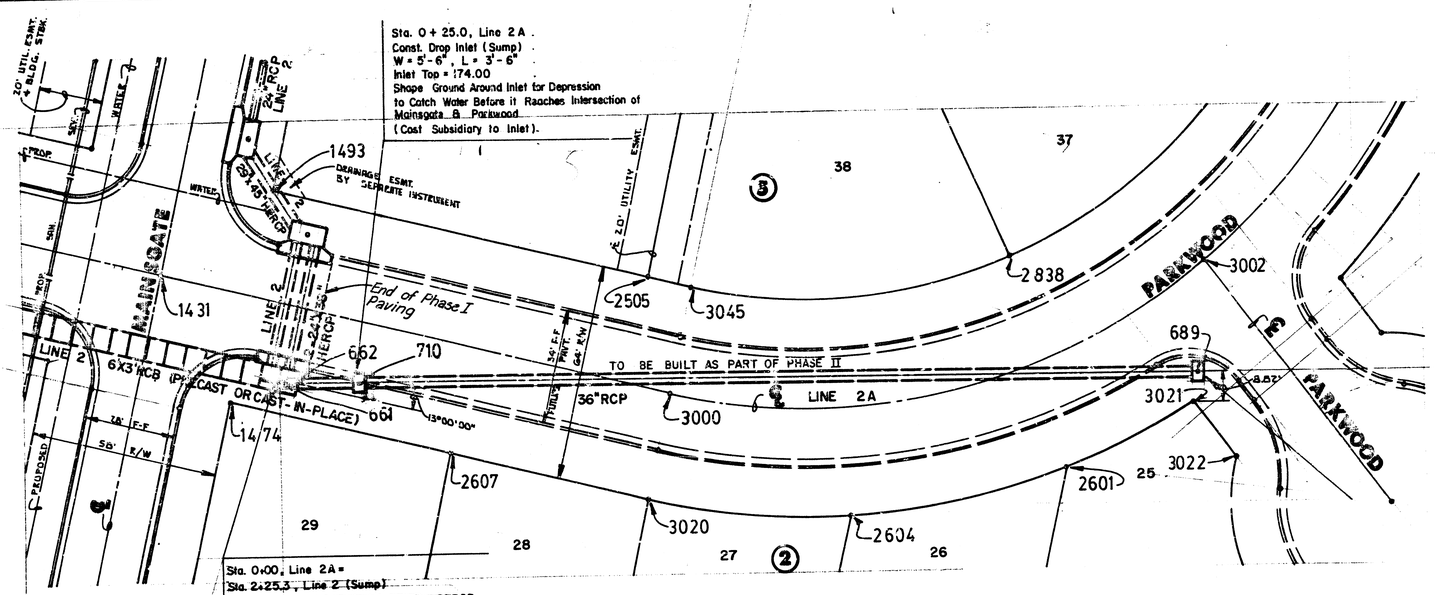
BEACON VILLAGE
STORM WATER SEWER NO. 388
PROJ. NO. 468-76-245-81979-000-000-001

N

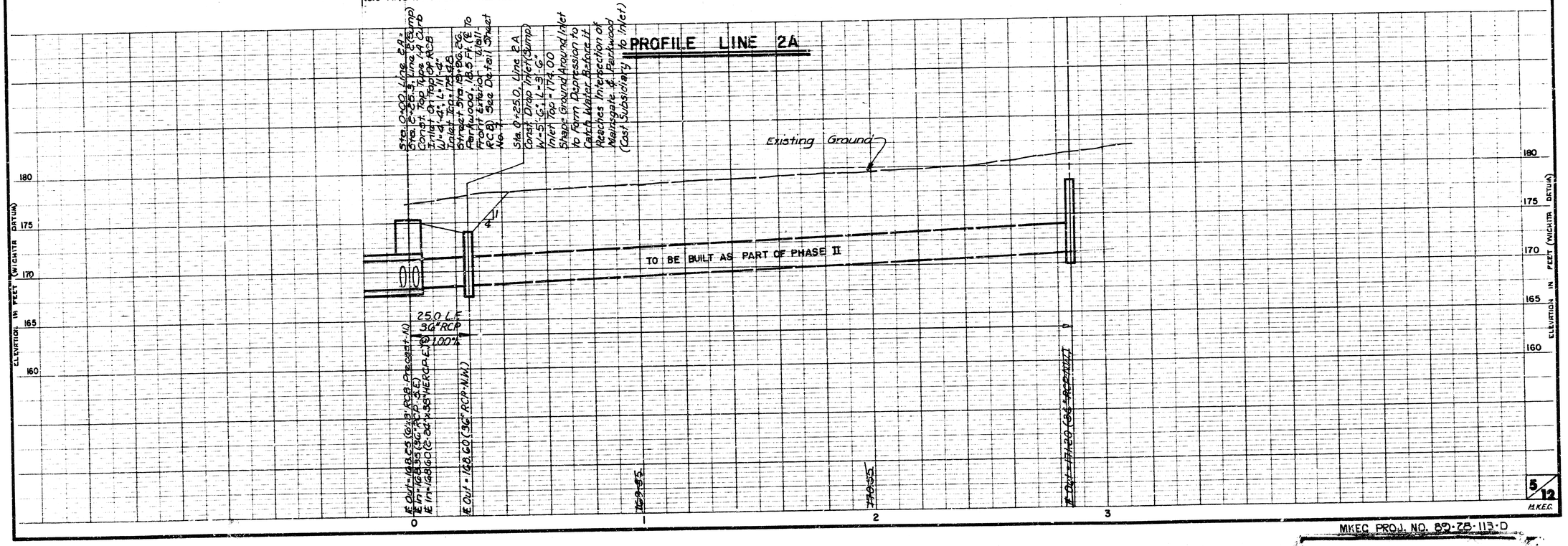
Scale: 1" = 20' Horiz.
1" = 5' Vert.



Sta. 0+00, Line 2A =
Sta. 2+25.3, Line 2 (Sump)
Const. Top Type T-A Curb Inlet On Top Of RCB
W=4'-4", L=11'-4"
Inlet Top = 175.48
Street Sta. 19+96.26, Parkwood
18.5 Ft. (℄ To Front Exterior Wall-RCB)

PLAN LINE 2A

PROFILE LINE 2A



COORDINATE SYSTEM AS USED BY MKEC FOR FINAL PLATS
BEACON VILLAGE

POINT #	NORTH COORDINATE	EAST COORDINATE	COMMENTS
1431	9447.8242	4679.7327	℄ Mainsgate & Parkwood
1474	9418.1431	4648.3635	Lot Corner
1493	9419.5188	4712.3487	Lot Corner
2505	9299.5465	4714.9281	Lot Corner
2611	9161.0005	4690.6626	Lot Corner
2604	9222.3773	4661.1853	Lot Corner
2607	9348.1636	4649.8680	Lot Corner
2838	9192.5169	4746.7446	Lot Corner
3000	9284.8619	4683.2364	℄ Parkwood
3002	9133.6875	4760.0491	℄ Parkwood & Court
3020	9284.1741	4651.2438	Lot Corner
3021	9127.3263	4718.7067	Lot Corner
3022	9110.4487	4705.8210	Lot Corner
3045	9285.5497	4715.2290	Lot Corner
661	9404.8594	4658.5683	℄ RCB @ ℄ Inlet
662	9399.1937	4658.6902	℄ RCB @ S. End Inlet
689	9127.8238	4727.5168	~~℄ Inlet~~
710	9380.4540	4663.4430	℄ Inlet

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BEACON VILLAGE PHASE I
STORM WATER SEWER NO. 388
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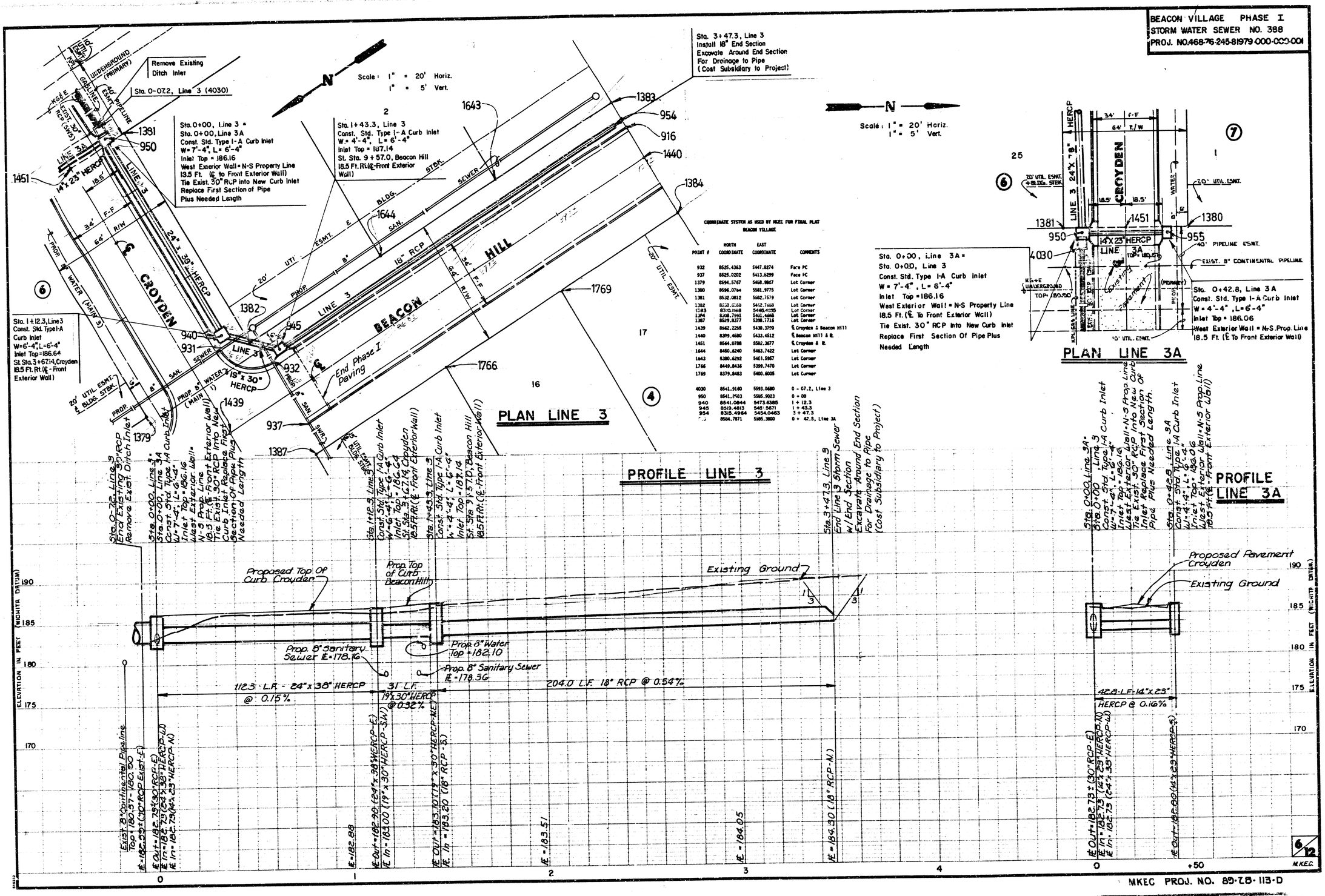

COORDINATE SYSTEM AS USED BY MKEC FOR FINAL PLAT
BEACON VILLAGE

POINT #	NORTH COORDINATE	EAST COORDINATE	COMMENTS
932	8525.4363	5447.8274	Face PC
937	8525.0202	5413.8299	Face PC
1379	8594.5767	5468.8967	Lot Corner
1380	8696.0764	5581.9775	Lot Corner
1381	8532.0812	5582.7579	Lot Corner
1382	8530.8160	5452.7668	Lot Corner
1383	8330.8168	5468.4295	Lot Corner
1384	8208.7995	5401.4668	Lot Corner
1387	8529.8377	5398.7716	Lot Corner
1439	8662.2295	5430.3790	℄ Croyden & Beacon Hill
1440	8398.4680	5433.4512	℄ Beacon Hill & ℄
1451	8564.0788	5582.3677	℄ Croyden & ℄
1644	8460.6240	5463.7422	Lot Corner
1643	8380.6292	5461.5957	Lot Corner
1766	8449.8436	5399.7470	Lot Corner
1769	8379.8483	5400.6005	Lot Corner
4030	8541.9160	5593.0680	0 - 07.2, Line 3
950	8541.2503	5585.9023	0 + 00
940	8541.0844	5473.6385	1 + 12.3
945	8519.4813	5461.5671	1 + 43.3
954	8315.4964	5454.0463	3 + 47.3
[illegible]	8584.7871	5585.3800	0 + 42.8, Line 3A

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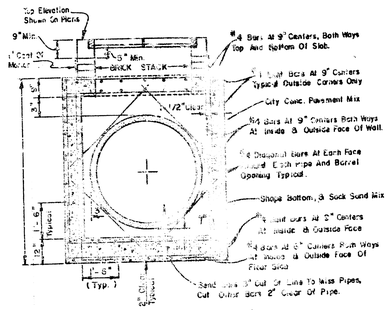
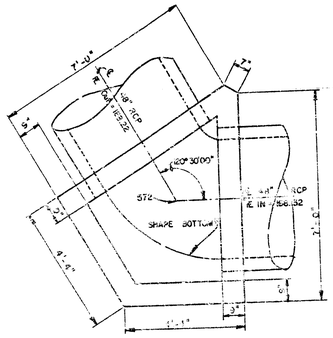
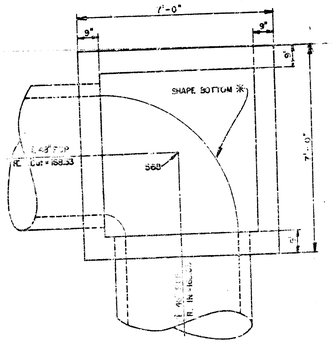


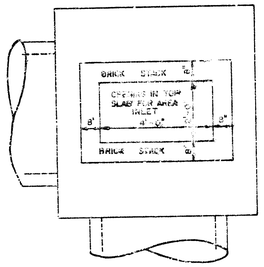
SECTION - MANHOLE / AREA INLET



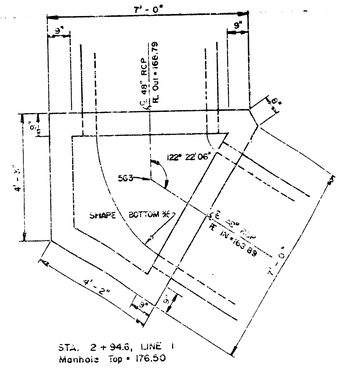
STA 1+12, LINE 1
Manhole Top = 177.50



STA 2+17, LINE 1
Area Inlet Top = 175.50



STA 2+17, LINE 1
TOP SLAB PLAN
DOUBLE 24"x 24" INLET



STA. 2+94.6, LINE 1
Manhole Top = 176.50

REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 2.33' TO 4.0'

NOTE:
BRICK BARRELS LESS THAN 16" DEEP SHALL HAVE 8" WALLS EXCEPT WHEN LOCATED WITHIN PUBLIC STREET OR ALLEY PAVEMENT THEN THE WALL SHALL BE 12".

* THE FLOORS OF ALL MANHOLES SHALL BE SHAPED TO SUCH CONTOURS AS SUCH THAT THE MANHOLES WILL BE SELF CLEANING. FLOW OF SEWAGE FROM THE INLET COULD BE DEPOSITED AS FLOWS THROUGH THE MANHOLE. CONCRETE SHALL BE PACKED TO MATCH THE PIPES TO THE OUTLET POINTS. FLOOR SHALLS SHALL BE SHAPED TO MATCH THE BOTTOM HALVES OF THE INFLOW AND OUTFLOW PIPES. BENCH FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS - SLOPED TOWARD THE FLOW CHANNELS.

DOUBLE 24"X 24" FRAME DETAIL

#400G (GRATE) (OR EQUAL)
WEIGHT = 235 LBS.

24"X 24" GRATE DETAIL

STA. 0+00, LINE 2
MODIFICATIONS TO EXISTING
TYPE 1-A CURB INLET

STA. 2+25.3, LINE 2
SPECIAL TYPE 1-A CURB INLET
OVER 6'x 3' RCB

STA. 4+67.2, LINE 1
Manhole Top = 176.21

SPECIAL REINFORCED CONCRETE MANHOLE DETAILS

Design	
Drawn by	
Checked by	
Date	
Job no.	

MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING #800
WICHITA, KANSAS 67226
636-5566

Sheet 7 of 12

MKEC PROJ. NO. 89-28-113-D

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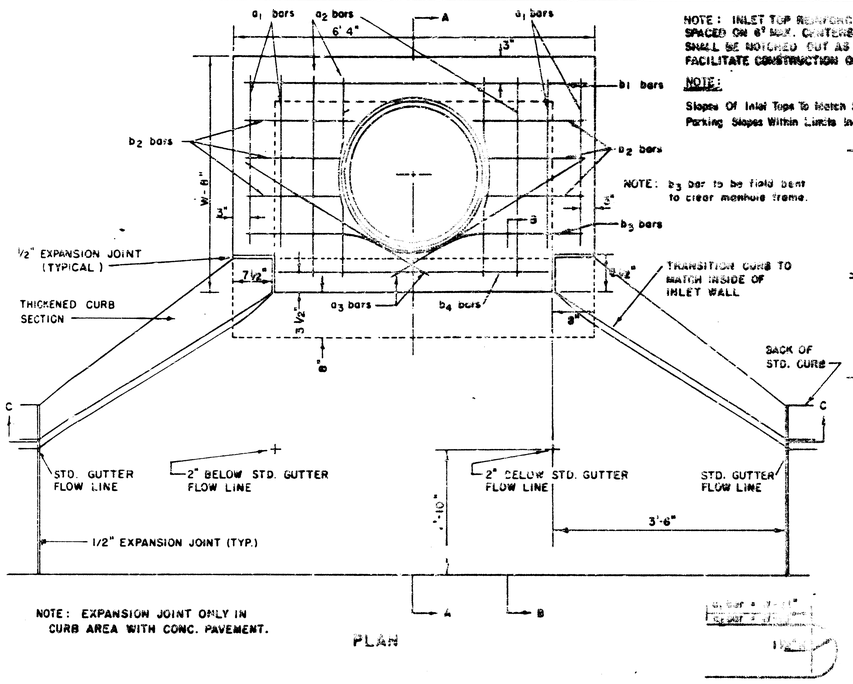


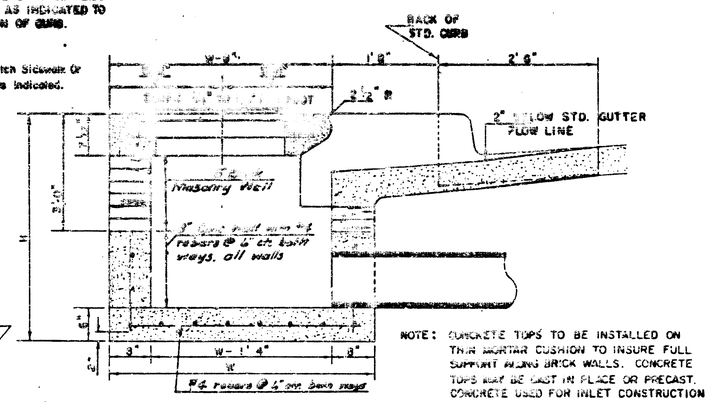
NOTE: EXPANSION JOINT ONLY IN CURB AREA WITH CONC. PAVEMENT.

PLAN

NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LEGS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.

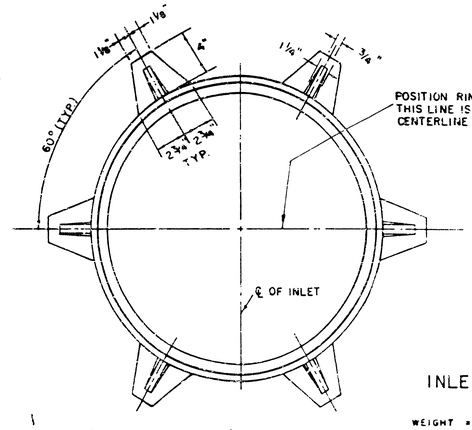
NOTE:
Slopes Of Inlet Tops To Match Sidewalk Or Parking Slopes Within Limits Indicated.

NOTE: b_3 bar to be field bent to clear manhole frame.



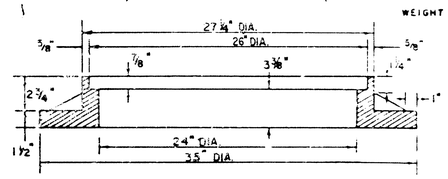
SECTION A-A

NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX WITH AIR ENTRAINMENT.



INLET FRAME

WEIGHT = 180 LBS



SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.

STEEL SCHEDULE

BAR	a_1	a_2	a_3*	W=4'4"	W=5'4"	W=6'4"	W=7'4"	W=8'4"	b_2	b_3	b_4	WT. LBS.
NUMBER	4	4	2	1	3	5	7	9	5	1	1	
SIZE	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#5	
LENGTH W=4'4"	5'7"	6'7"	4'0"	6'1"	–	–	–	–	1'9"	6'2"	4'3"	40±
LENGTH W=5'4"	7'7"	8'7"	5'0"	–	6'1"	–	–	–	1'9"	6'2"	4'8"	81±
LENGTH W=6'4"	9'7"	10'7"	6'0"	–	–	6'1"	–	–	1'9"	6'2"	4'8"	101±
LENGTH W=7'4"	11'7"	12'7"	7'0"	–	–	–	8'1"	–	1'9"	6'2"	4'8"	121±
LENGTH W=8'4"	13'7"	14'7"	8'0"	–	–	–	–	6'1"	1'9"	6'2"	4'8"	141±

* NOTE: a_3 BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

BENDING DIAGRAM

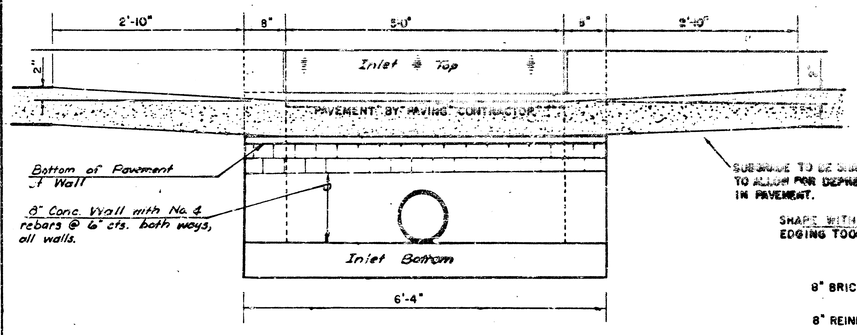
W			
4'-4"	5'8" x 6'-4" x 7 1/2"	6" @ 12"	0.38 ±
5'-4"	6'8" x 6'-4" x 7 1/2"	6" @ 12"	0.51 ±
6'-4"	5'8" x 6'-4" x 7 1/2"	12" @ 12"	0.64 ±
7'-4"	5'8" x 6'-4" x 7 1/2"	12" @ 24"	0.77 ±
8'-4"	7'8" x 6'-4" x 7 1/2"	12" @ 24"	0.90 ±

NOTE: CONTRACTOR WILL BE PAID FOR ONE INLET WHEN W = 8'-4" AND H = 7'0" OR LESS.

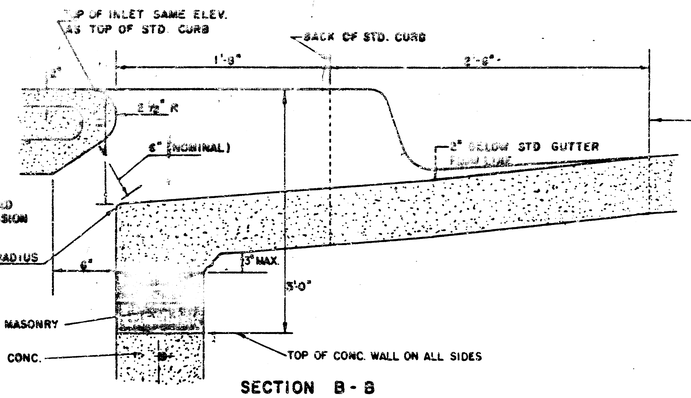
CONTRACTOR WILL BE PAID FOR ONE INLET PIPE SET FOR EACH INLET INSTALLED.

CONTRACTOR WILL BE STEP CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.



SECTION C-C



SECTION B-B

REVISED 11-30-1988

~~REVISED 12-21-1984~~

DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS

INLET OPENING = 6" × 5'0"

JUNE 1984

8/15

MKEC PROJ. NO. 89-28-113-D

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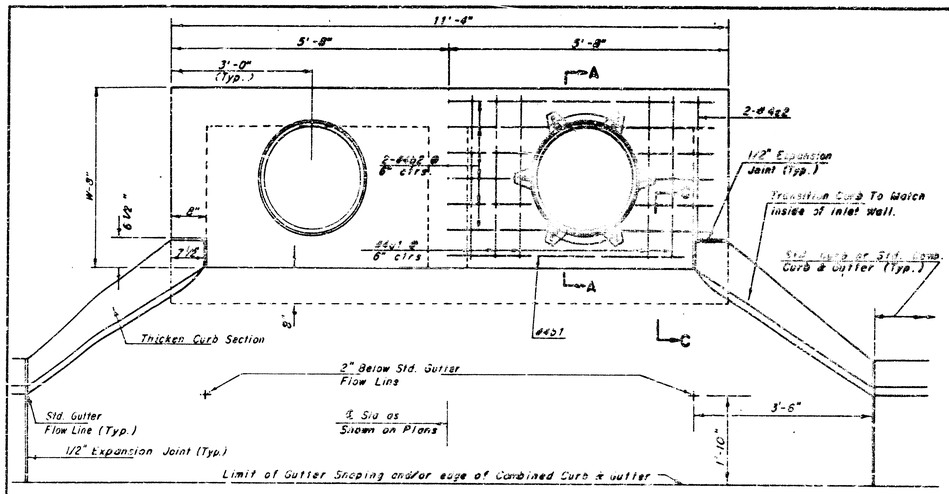
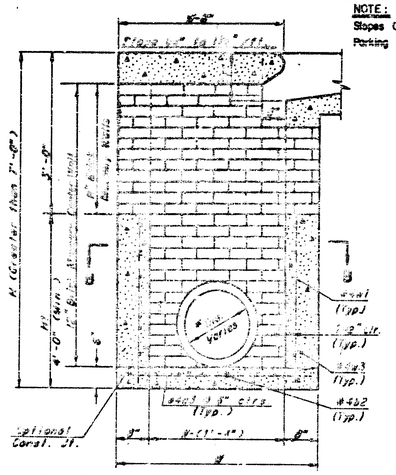


SLAB REINFORCING NOT SHOWN — SHOWING SLAB REINFORCING

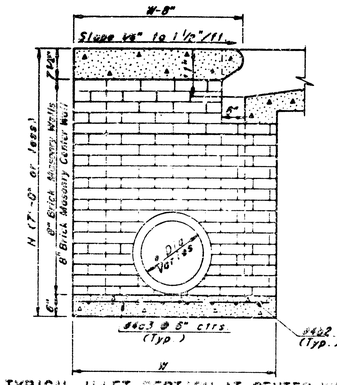
PLAN

NOTE: Expansion Joint only in Curb Area with Conc. Pavement.



TYPICAL INLET SECTION AT CENTER WALL
(REINFORCED CONCRETE WALLS)

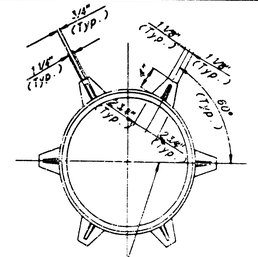
NOTE:
Slopes Of Inlet Tops To Match Sidewalk Or Parking Slopes Within Limits Indicated.

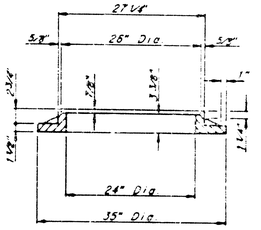


TYPICAL INLET SECTION AT CENTER WALL
(MASONRY WALLS)

* A center wall opening shall be provided by means of a section of reinforced concrete pipe. See Case I and Case II Below.

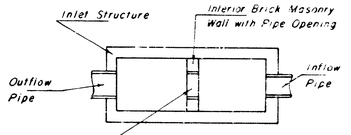
PROJECT NO.	SHEET NO.	TOTAL SHEETS





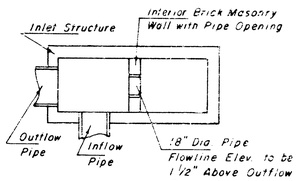
CAST IRON INLET RING
Wt.=180 lbs.

See City of Wichita Standard Manhole Frame and Cover Detail Sheet for Cover Details to be used with Inlet Frame.



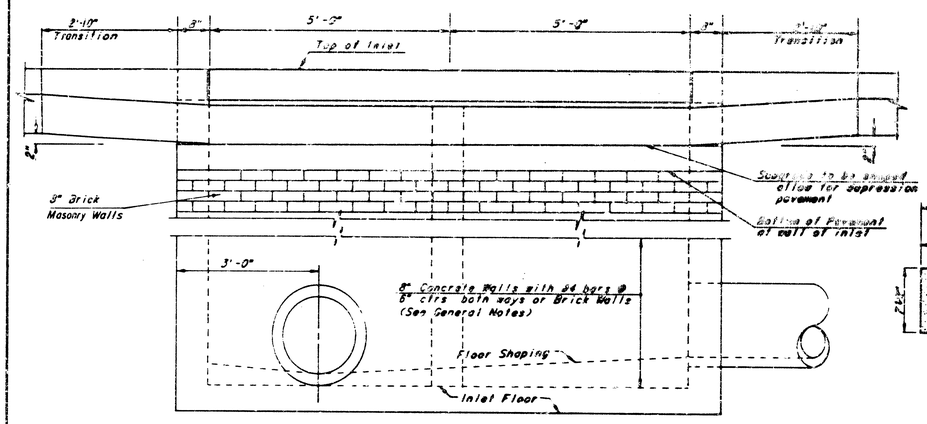
Pipe Size to be the same as Outlet Pipe Size. Flowline Elev. to be Average of Lowest Inflow Pipe Elev. and Outflow Pipe Elev.

CASE I

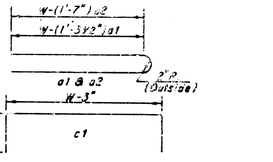


CASE II

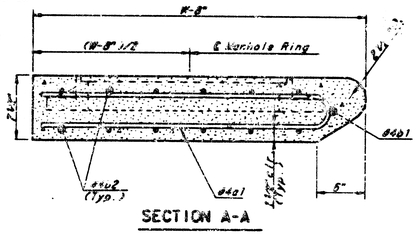
NOTE Center Wall Pipe Size shall be as Specified in Inlet Construction Note on the Plan/Profile Sheets for those Cases not shown here.



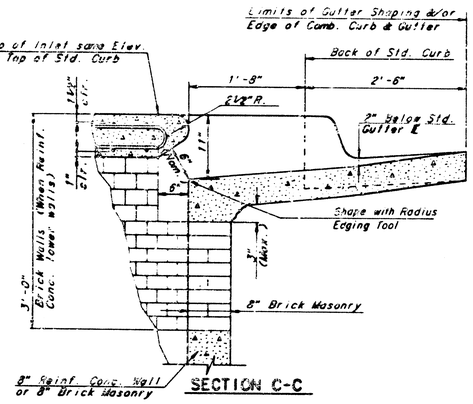
ELEVATION



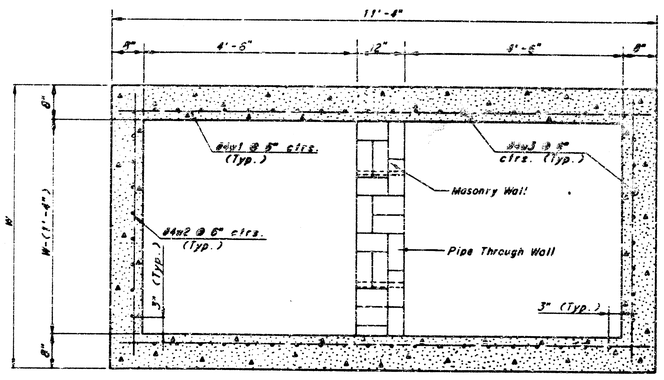
BENDING DIAGRAMS



SECTION A-A



SECTION C-C



SECTION B-B

SLAB AND FLOOR REINFORCING

MARK	SIZE	W=3'-4" NO.	W=3'-4" LENGTH	W=5'-4" NO.	W=5'-4" LENGTH	W=6'-4" NO.	W=6'-4" LENGTH	W=7'-4" NO.	W=7'-4" LENGTH	W=8'-4" NO.	W=8'-4" LENGTH
a1	#4	15	8'-7 1/4"	13	9'-7 1/4"	13	10'-7 1/4"	13	12'-7 1/4"	13	14'-7 1/4"
a2	#4	2	9'-3"	2	9'-3"	2	10'-3"	2	12'-0"	2	14'-0"
a3	#4	20	4'-1"	20	5'-1"	20	6'-1"	20	7'-1"	20	8'-1"
b1	#4	1	9'-3"	1	9'-3"	1	9'-3"	1	9'-3"	1	9'-3"
u2	#4	18	11'-1"	24	11'-1"	30	11'-1"	36	11'-1"	42	11'-1"

WALL REINFORCING

MARK	SIZE	W=3'-4" NO.	W=3'-4" LENGTH	W=5'-4" NO.	W=5'-4" LENGTH	W=6'-4" NO.	W=6'-4" LENGTH	W=7'-4" NO.	W=7'-4" LENGTH	W=8'-4" NO.	W=8'-4" LENGTH
c1	#6	4	8'-1"	4	7'-1"	4	8'-1"	4	9'-1"	4	10'-1"
w1	#4	①	11'-1"	①	11'-1"	①	11'-1"	①	11'-1"	①	11'-1"
w2	#4	①	4'-1"	①	5'-1"	①	6'-1"	②	7'-1"	②	8'-1"
w3	#4	②	②	②	③	②	③	②	③	②	③

* Field bend or cut Reinforcing as required for clearance
① 4(N1-8")÷4 (N1-8") Rounded down to nearest 0.5'
② 40÷4(12 - 16") ③ N1÷(8")

GENERAL NOTES

1. THE CONTRACTOR SHALL BE REQUIRED TO CONSTRUCT 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W=8'-4" OR LESS AND H=7'-0" OR LESS. WHEN W IS GREATER THAN 8'-4" AND H IS LESS THAN 7'-0" THE OUTSIDE INLET WALLS BELOW THE BRICK STACK SHALL BE REINFORCED CONCRETE CONSTRUCTION AND THE CENTER WALL SHALL BE OF MASONRY CONSTRUCTION AS SHOWN FOR THE MASONRY WALL OPTION.
2. INLET INVERT SHALL BE SHAPED WITH A SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.
3. CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX.
4. INLET TOP REINFORCING SHALL BE SPACED ON 8" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB BARS IN INLET TOP TO BE FIELD BENT OR CUT TO CLEAR MANHOLE RING.
5. THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.

STANDARD CURB INLET PRECAST TOPS

W	PRE-CAST TOP SIZE	SIDE OR INTERIOR WALL PIPE SIZE	CU. YD. CONC.
4'-4"	5'-8"x 11'-4"x 7 1/2"	21" & SMALLER	0.83 ±
5'-4"	4'-8"x 11'-4"x 7 1/2"	24" & 30"	1.09 ±
6'-4"	5'-8"x 11'-4"x 7 1/2"	36" & 42"	1.35 ±
7'-4"	6'-8"x 11'-4"x 7 1/2"	48" & 54"	1.61 ±
8'-4"	7'-8"x 11'-4"x 7 1/2"	60" & 66"	1.87 ±

STANDARD TYPE 1A CURB INLET

INLET OPENING = 6"x10'-0"

WICHITA, KANSAS

Designed by	BER, KJS, MHB	Checked by	MHB	9
Drawn by	JCP	Date	Nov., 1984	Job No.	12

REVISED 12-5-88 ~~REVISED 12-21-84~~

MKEC PROJ. NO. 89-28-113-D

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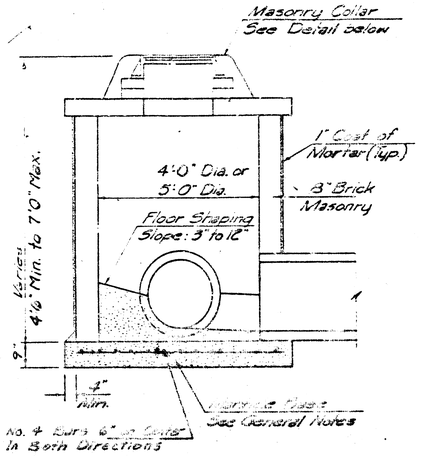
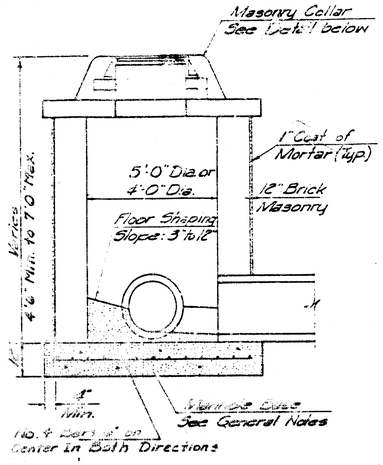
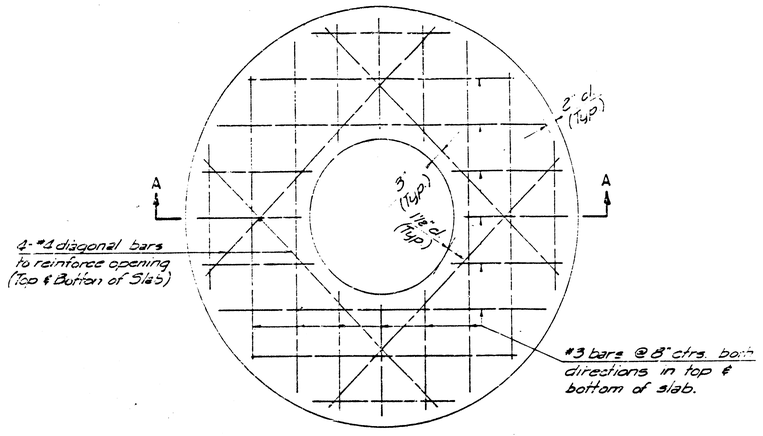


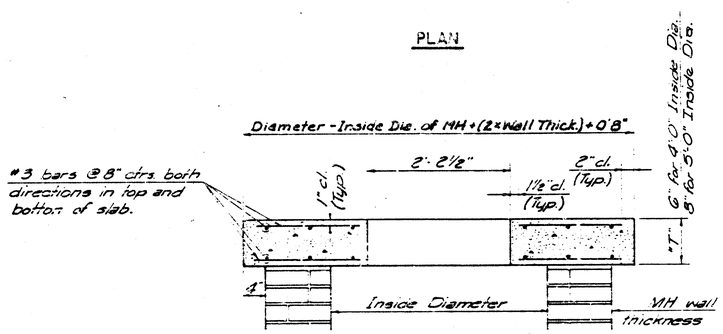
SHALLOW TYPE "A" MANHOLE



SHALLOW TYPE "B" MANHOLE

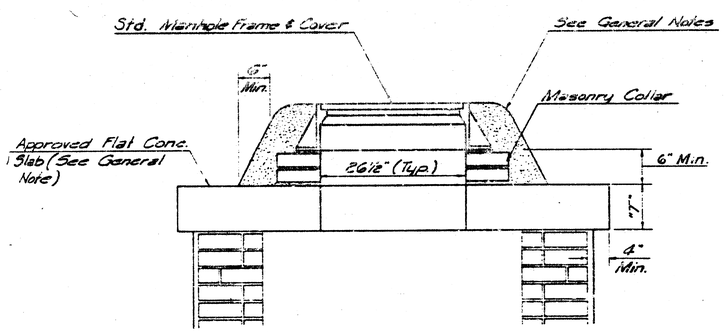


PLAN



SECTION A-A

FLAT CONCRETE SLAB DETAILS



MASONRY COLLAR DETAIL

GENERAL NOTES

1. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY CONCRETE CEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. TYPE "A" SHALLOW MANHOLES CAN BE USED OR SEWERS WHEN THE MANHOLE IS NOT LOCATED WITHIN PUBLIC STREET PAVEMENT. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 4'. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5'. COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.

2. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED 6" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.

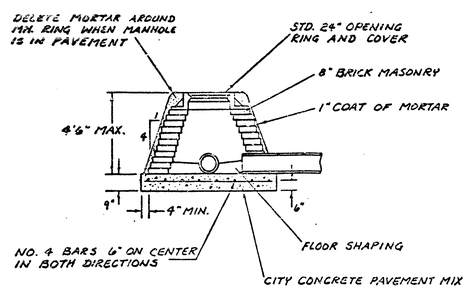
3. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN ON THE DRAWINGS. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO MEET LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.

4. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.

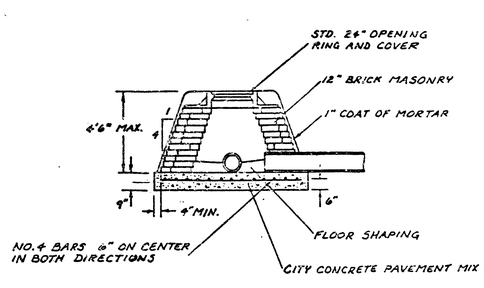
5. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWINGS.

6. THE CROWNS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.

7. STANDARD SHALLOW MANHOLES TYPE "A" AND "B" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH FOR THE TYPE AND DIAMETER INDICATED. STANDARD SPECIAL SHALLOW MANHOLES TYPE "A" AND "B" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH FOR THE TYPE INDICATED. ALL STANDARD SHALLOW MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.



SPECIAL SHALLOW TYPE 'A' MANHOLE



SPECIAL SHALLOW TYPE 'B' MANHOLE

MKEC PROJ. NO. 89-28-113-D

CITY OF WICHITA, KANSAS
STANDARD SHALLOW MANHOLES
TYPE 'A' AND TYPE 'B'

10/12

Designed by | Checked by | Drawn by

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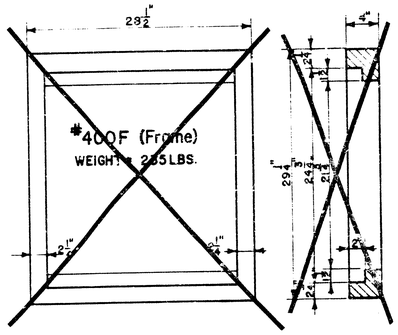
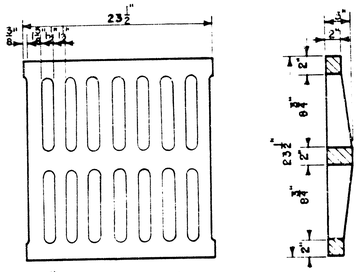
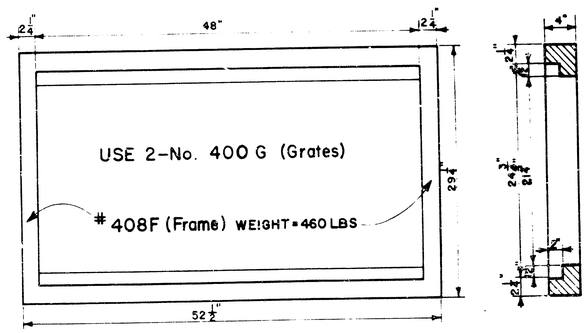
NOTE: Grates shall be imprinted on the top surface with "CITY OF WICHITA" using letters at least 1" in height. Other marking methods may be used only if approved by the engineer.

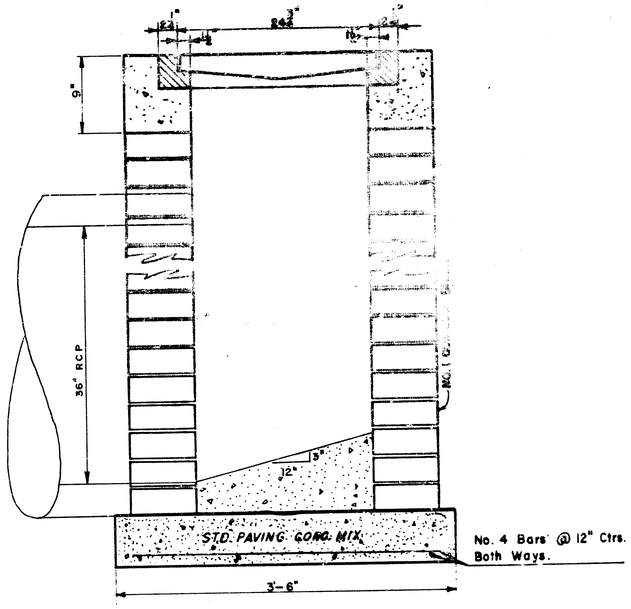


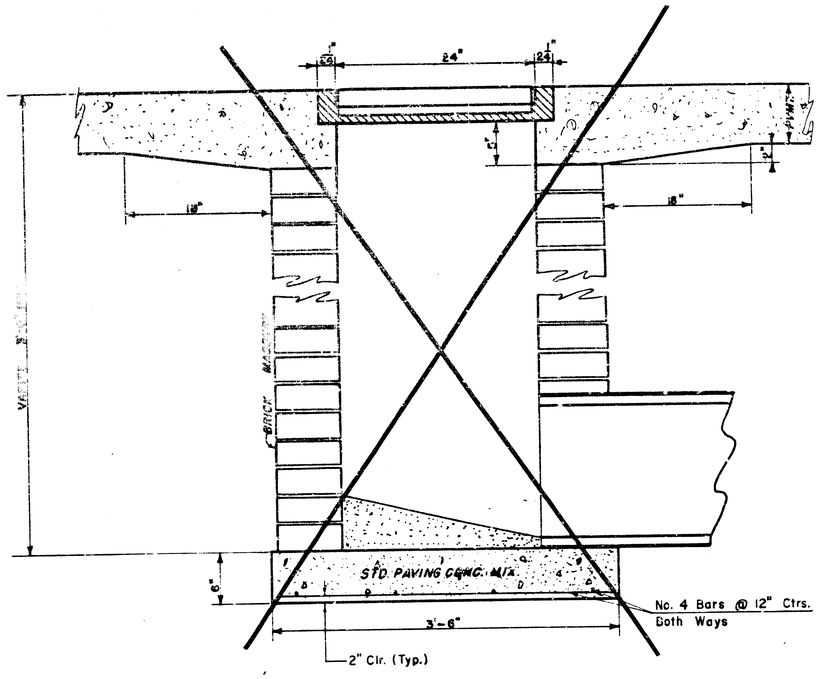


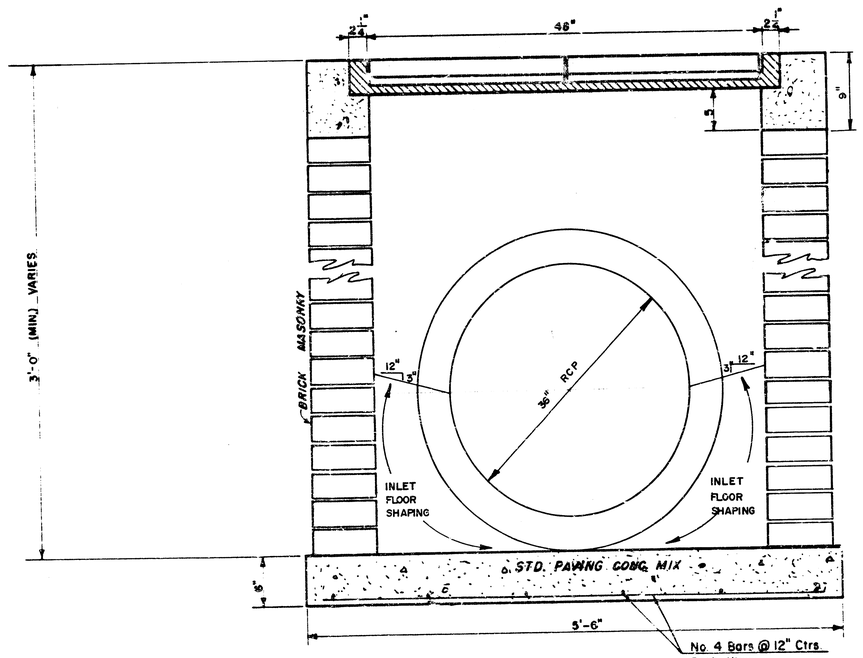
24"x24" Frame & Grate Detail



Double 24"x24" Frame Detail







MKEC PROJ. NO. 80-28-113-D

DROP INLET DETAILS

M.E. Lindebak, City Engineer
City of Wichita, Kansas
Project
Project No.
Date:
Scale: 1-1/2" = 1'-0"

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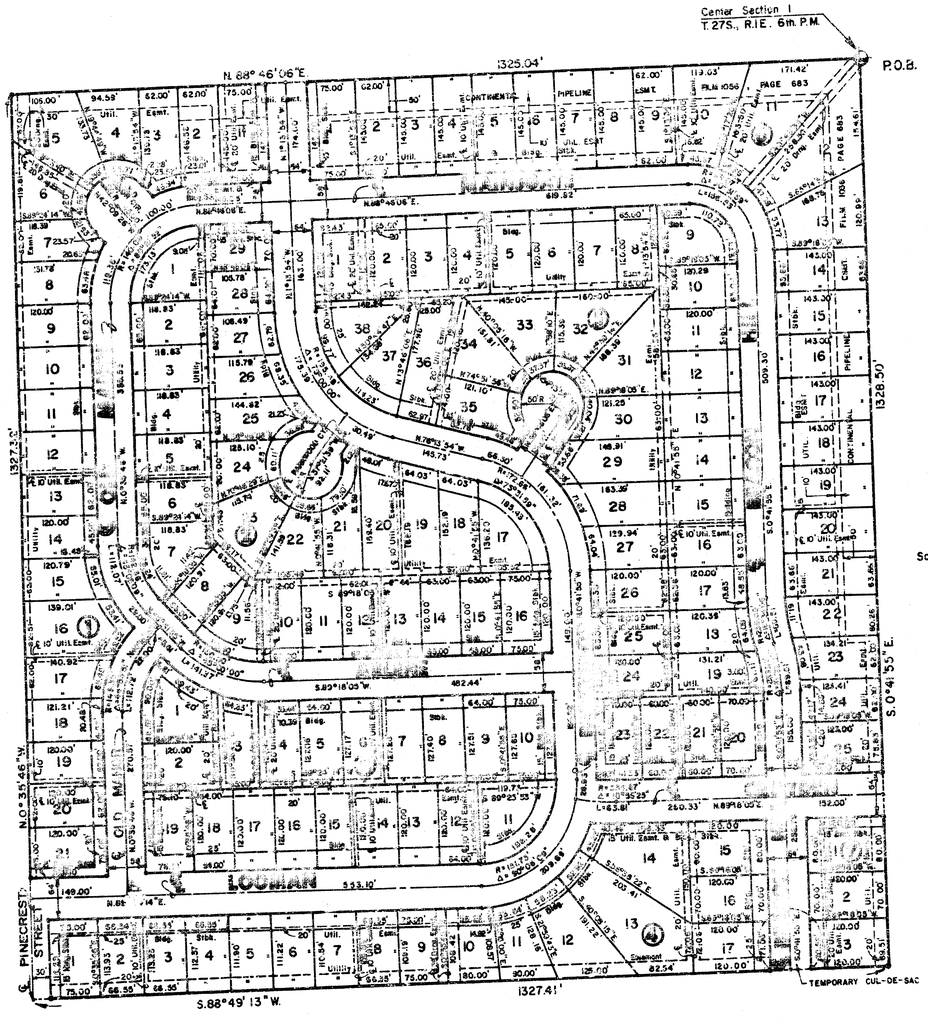
FINAL PLAT OF

BEACON VILLAGE

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



I, Kenneth H. Bengtson, a Civil Engineer and Registered Land Surveyor in Kansas, do hereby certify that I have been in responsible charge of surveying and platting of "BEACON VILLAGE" an addition to Wichita, Sedgwick County, Kansas, into Lots, Blocks and Streets, the same being accurately set forth in the accompanying plat and described herein:

The East Half of the North Half of the Southwest Quarter of Section 1, Township 27 South, Range 1 East of the 6th P.M., Sedgwick County, Kansas, more particularly described as follows:

Beginning at the Northeast corner of said Southwest Quarter; thence S 00° 41' 55" E, 1328.50 feet along the East line of said Southwest Quarter, said line being the west line of Woodlawn Place 5th Addition, an addition to Wichita, Sedgwick County, Kansas; thence S 88° 49' 13" W, 1327.41 feet along the North line of Wichita Land Addition, an addition to Wichita, Sedgwick County, Kansas; thence N 00° 35' 46" W, 1327.32 feet along the East line of Prairie Hills 2nd Addition, an addition to Wichita, Sedgwick County, Kansas to a point on the North line of said Southwest Quarter; thence N 88° 46' 06" E, 1325.04 feet along the South line of Beacon Hill an addition to Wichita, Sedgwick County, Kansas to the point of beginning.

The drainage easement found on Film 621, Page 290 shall be vacated by virtue of K.S.A. 12-512 (b)

I hereby certify that the details of this plat are correct to the best of my knowledge and belief this 23 day of May, 1989.

Kenneth H. Bengtson
Kenneth H. Bengtson, P.E., K.L.S. #922
Mid-Kansas Engineering Consultants, P.A.
3500 N. Rock Road, Building #800
Wichita, Kansas 67226

Know all men by these presents that we the undersigned property owners of the land as above set forth in the Land Surveyor's and Civil Engineers Certificate, have caused the same to be surveyed and platted into lots, blocks and streets, the same to be known as "BEACON VILLAGE" an addition to Wichita, Sedgwick County, Kansas. The streets are hereby dedicated to and for the use of the public. Easements for the construction and maintenance of drainage and public utilities are hereby granted. The temporary cul-de-sac for Beacon Hill is hereby granted, however, at such time as Beacon Hill is extended to the south the cul-de-sac shall be automatically vacated.

LEEWOOD HOMES, INC.

By: Joe H. Lee, President
Joe H. Lee, President

STATE OF KANSAS)
) ss:
SEDGWICK COUNTY)

Be it remembered that on this 23rd day of May, 1989, before me a Notary Public in and for said State and County, came Joe H. Lee, President of Leewood Homes, Inc., to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same. In testimony whereof I have hereunto set my hand and affixed my notorial seal the day and year above written.

Jerry Fritz, Notary Public

My Appointment Expires: March 26, 1991

JERRY FRITZ
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 3-26-91

We, Bank IV, Wichita, National Association, mortgagees on the above described property, do hereby consent to the plat of "BEACON VILLAGE".

BANK IV, WICHITA, NATIONAL ASSOCIATION

By: Gary K. Brown, Senior Vice President

STATE OF KANSAS)
) ss:
SEDGWICK COUNTY)

Be it remembered that on this 23rd day of May, 1989, before me a Notary Public in and for said State and County, came Gary K. Brown on behalf of Bank IV, Wichita, National Association, to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same. In testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.

Jerry Fritz, Notary Public

My Appointment Expires: March 26, 1991

JERRY FRITZ
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 3-26-91

This plat of "BEACON VILLAGE" has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this ____ day of _____, 1989.

WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION

_____, Chairman
Sue L. Crockett

_____, Secretary
Marvin S. Krout

This plat approved and all dedications shown hereon, if any, accepted by the City Commission of the City of Wichita, Kansas, this ____ day of _____, 1989.

_____, Mayor
Bob Knight

_____, City Clerk
John Moir

Entered on transfer record this ____ day of _____, 1989.

_____, County Clerk
Don Wright

STATE OF KANSAS)
) SS:
SEDGWICK COUNTY)

This is to certify that this instrument was filed for record in the Register of Deeds office this ____ day of _____, 1989.

_____, Register of Deeds
Pat Kettler

_____, Deputy
Ed Resa

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