Storm Water Drain # 103

TO SERVE

WILDERNESS AT THE PARK ADDITION

Project No.

468 76 245 82354 000 000 001

Index Code:

750562

CITY OF WICHITA, KANSAS

Michael E. Lindebak City Engineer

July, 1994

General Notes

1. Contractor will be required to provide notice to utility companies a minimum of twenty-four (24) hours prior to any excavation, as follows:

   Kansas One-Call 687-2470

   The Contractor must notify the following in case of an emergency:

Cablevision	262-4270
or	263-2061
K.P.L. Gas Service Company	263-7511
Kansas Gas & Electric Company	264-1141
Arkla Gas Company	942-8350
or	263-8161
Southwestern Bell Telephone Company	1-571-2611
City of Wichita Water Department	268-4908
City of Wichita Sewer Maintenance	268-4071)

2. Earthwork totals for ch[illegible] excavation and grading on this project are based [illegible] information as of July, 1993.

3. All excavation from this project shall remain of this site. Excess excavation shall be stored at locations to be determined by the developer. Contact Alex Soerries at 721-0434 for the location of placement of excess excavation.

4. Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

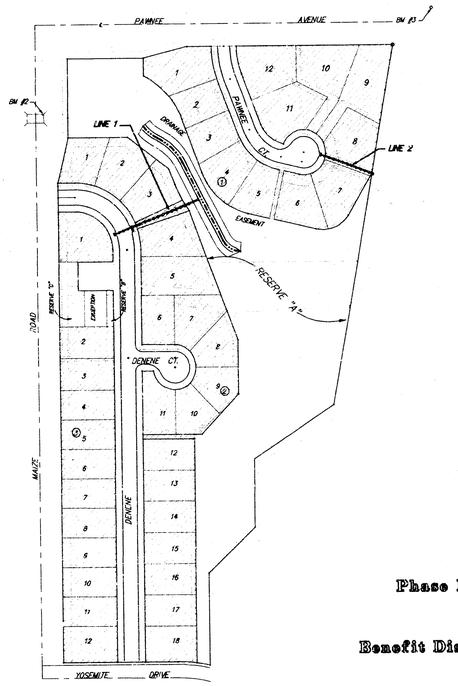
5. Rubble from the removal of miscellaneous structures, including trees, stumps, shrubs and brush shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved.

6. The Contractor shall be responsible for preserving property irons. The Contractor will 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 law.

7. All disturbed areas shall be seeded with Rebel Fescue at a rate of of 12 pounds per 1,000 square feet, and mulched at the standard rate.

Sheet Index

Title Sheet	1
Channel Alignment	2
Plan\Profile - Lines 1 & 2	3
Channel Details	4
Inlet Details	5,6
Earthwork Cross Sections	7,8
Copy of Plat	9



Project Area

SCALE: 1" = 150'

Phase I

Benefit District

Benchmarks:

#1 City Standard Disk 42.3' South of Pawnee Rd. Centerline and 49.5' West of Maize Rd. Centerline
Elev. = 135.10 City Datum

#2 "□" on NE Cor of Conc Box Culvert 198' South of Pawnee Rd. Centerline and 19' East of Maize Rd. Centerline
Elev. = 134.53 City Datum

#3 Railroad Spike in SE side of Power Pole 64'± West of centerline of driveway (House #10106) & 31' North of Pawnee Rd. centerline.
Elev. = 129.29 City Datum

Booked
12-9-94
MCG
D-242

BRENT MOOTEN 8470 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY P. A.
ENGINEERING & SURVEYING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

BENCHMARKS:

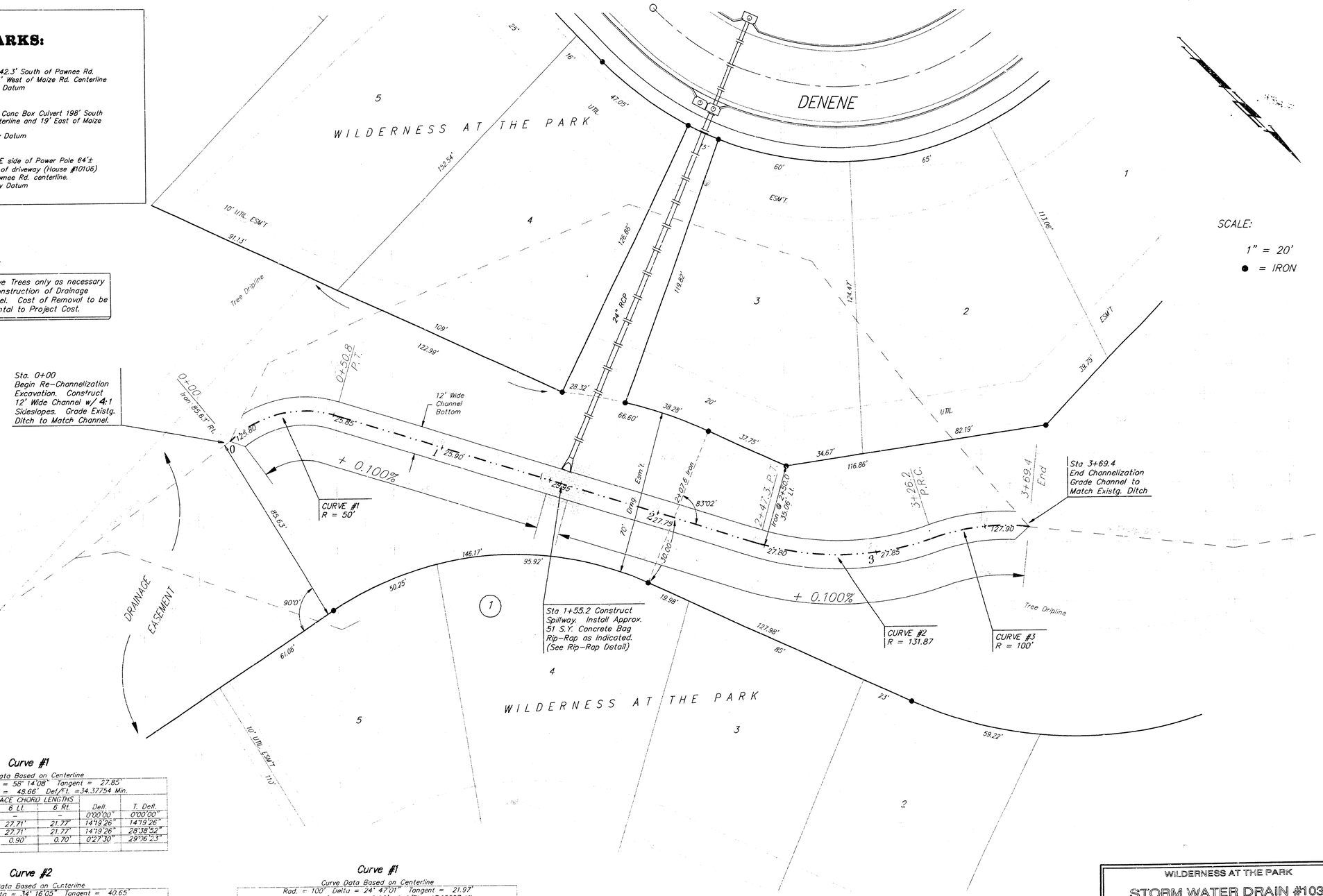
#1 City Standard Disk 42.3' South of Pawnee Rd. Centerline and 49.5' West of Maize Rd. Centerline
Elev. = 135.12 City Datum

#2 "□" on NE Cor of Conc Box Culvert 198' South of Pawnee Rd. Centerline and 19' East of Maize Rd. Centerline
Elev. = 134.53 City Datum

#3 Railroad Spike in SE side of Power Pole 64'± West of centerline of driveway (House #10106) & 31' North of Pawnee Rd. centerline.
Elev. = 129.29 City Datum

NOTE

Remove Trees only as necessary for Construction of Drainage Channel. Cost of Removal to be Incidental to Project Cost.



Curve #1

Curve Data Based on Centerline
Rad. = 50' Delta = 58° 14'08" Tangent = 27.85'
Arc = 50.82' L.C. = 48.66' Def/Ft. =34.37754 Min.

Station	Arc	FACE CHORD LENGTHS 6 Lt.	6 Rt.	Defl.	T. Defl.
0+00.00	–	–	–	0°00'00"	0°00'00"
0+25.00	25.00'	27.71'	21.77'	14°19'26"	14°19'26"
0+50.00	25.00'	27.71'	21.77'	14°19'26"	28°38'52"
0+50.80	0.80'	0.90'	0.70'	0°27'30"	29°06'23"

Curve #2

Curve Data Based on Centerline
Rad. = 131.87' Delta = 34° 16'05" Tangent = 40.65'
Arc = 78.87' L.C. = 77.70' Def/Ft. =13.03464 Min.

Station	Arc	FACE CHORD LENGTHS 6 Lt.	6 Rt.	Defl.	T. Defl.
2+47.30	–	–	–	0°00'00"	0°00'00"
2+50.00	2.70'	2.58'	2.82'	0°35'11"	0°35'11"
2+75.00	25.00'	23.83'	26.10'	5°25'52"	6°01'03"
3+00.00	25.00'	23.83'	26.10'	5°25'52"	11°26'55"
3+26.20	26.20'	24.37'	27.35'	5°41'30"	17°08'26"

Curve #1

Curve Data Based on Centerline
Rad. = 100' Delta = 24° 47'01" Tangent = 21.97'
Arc = 43.26' L.C. = 42.92' Def/Ft. =17.18697 Min.

Station	Arc	FACE CHORD LENGTHS 6 Lt.	6 Rt.	Defl.	T. Defl.
3+26.20	–	–	–	0°00'00"	0°00'00"
3+50.00	23.80'	25.23'	23.37'	6°49'03"	6°49'03"
3+69.46	19.46'	20.63'	18.29'	5°34'28"	12°23'31"

WILDERNESS AT THE PARK
STORM WATER DRAIN #103

BAUGHMAN COMPANY P. A.
ENGINEERING & SURVEYING
316-252-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER	SHEET
468-245-78-82354-000-000-001	2 OF 9

DESIGN	DRAWN	APPROVED	DATE	SCALE
JFB	JFB		7/7/94	1" = 20'

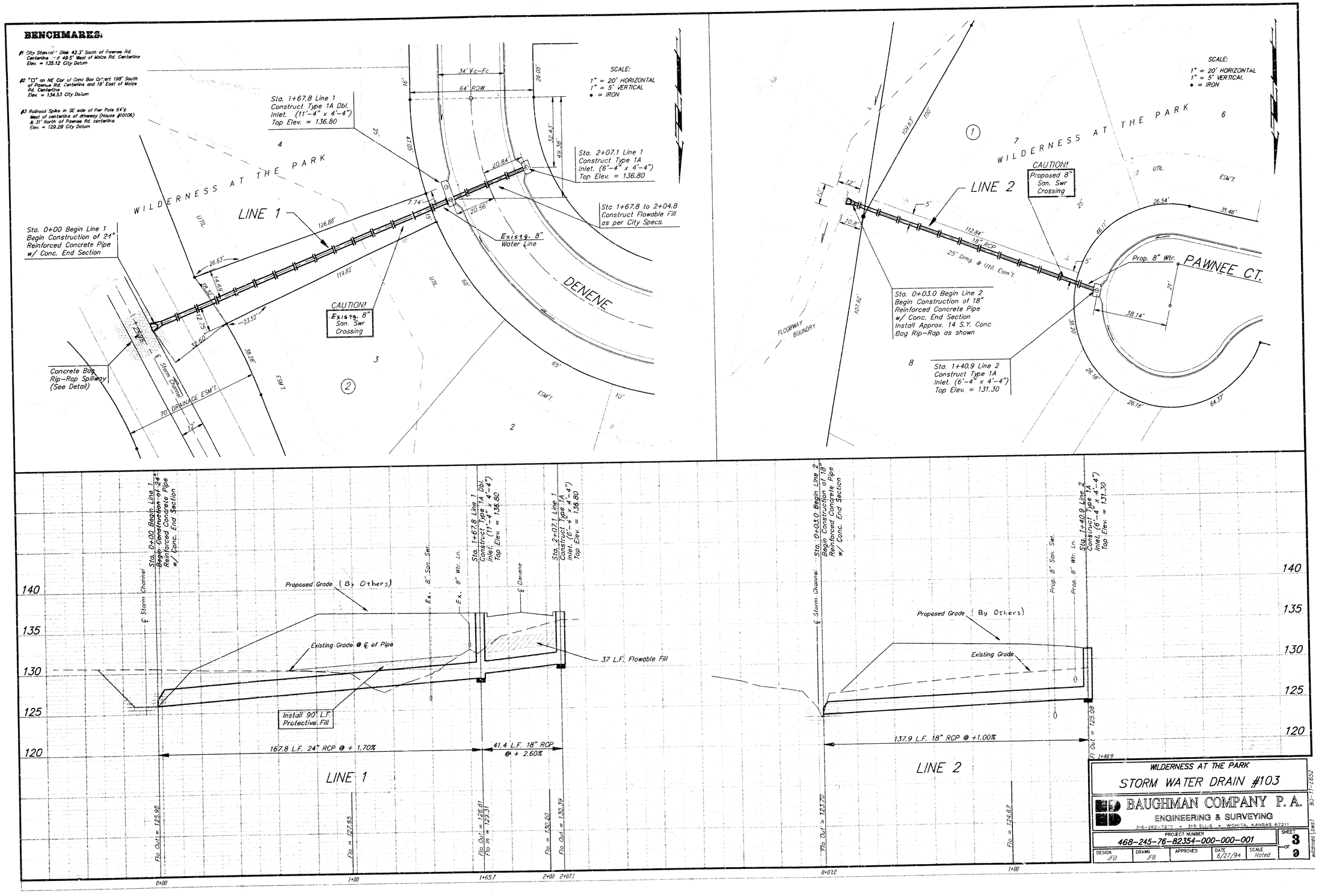
WILDERNESS\SWDR 93-11-E652

BENCHMARKS:

#1 City Standard Disk 42.3' South of Pawnee Rd. Centerline and 48.5' West of Maize Rd. Centerline
Elev. = 135.12 City Datum

#2 "□" on NE Cor of Conc Box Culvert 198' South of Pawnee Rd. Centerline and 19' East of Maize Rd. Centerline
Elev. = 134.53 City Datum

#3 Railroad Spike in SE side of Per Pole 64'± West of centerline of driveway (House #10106) & 31' North of Pawnee Rd. centerline.
Elev. = 129.29 City Datum



WILDERNESS AT THE PARK

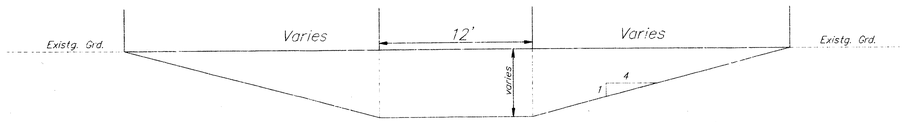
STORM WATER DRAIN #103

BAUGHMAN COMPANY P. A.
ENGINEERING & SURVEYING
316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER	SHEET
468-245-76-82354-000-000-001	3 OF 3

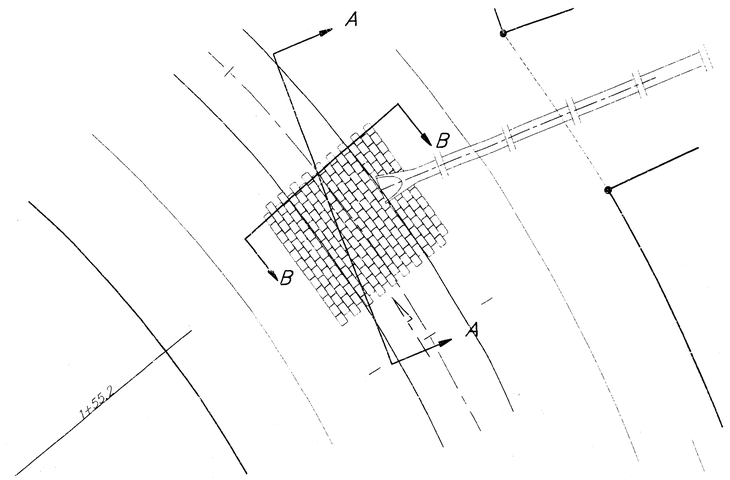
DESIGN	DRAWN	APPROVED	DATE	SCALE
JFB	JFB		6/27/94	Noted

93-71-1652
wldrnsdrn (sws1)

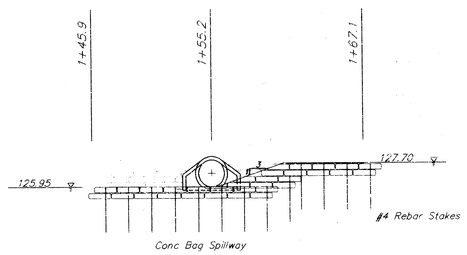


TYPICAL CHANNEL SECTION

Scale: 1" = 5'

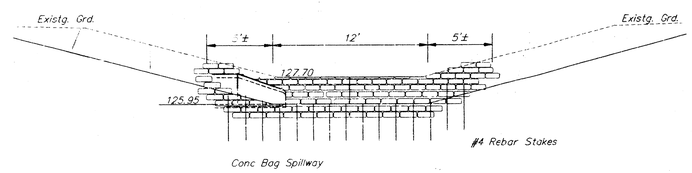


Scale: 1" = 10'



RIP-RAP DETAIL
(Sec. A-A)

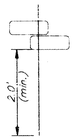
Scale: 1" = 5'



RIP-RAP DETAIL
(Sec. B-B)

Scale: 1" = 5'

Concrete Bag Rip-Rap shall be stacked in "pallet pattern" and staked together with #4 Re-bar and driven into the ground as shown.



WILDERNESS AT THE PARK

CHANNEL DETAILS

Storm Water Drain #103

BAUGHMAN COMPANY P. A.

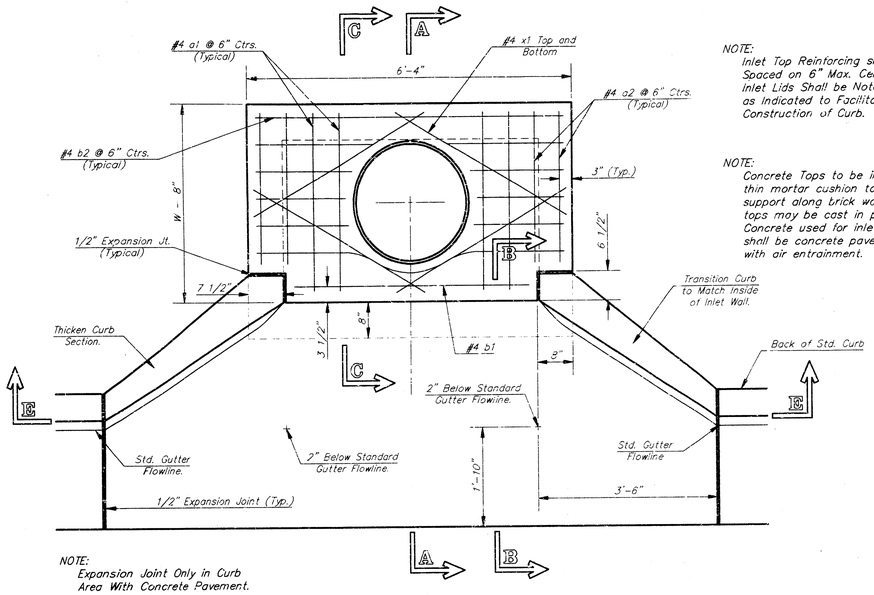
ENGINEERING & SURVEYING

316-262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER	SHEET
468-245-76-82-354-000-000-001	4 OF 9

DESIGN	DRAWN	APPROVED	DATE	SCALE
JFB	JFB		7/6/94	Noted

wildness 1.dwg/pp 05-11-1652

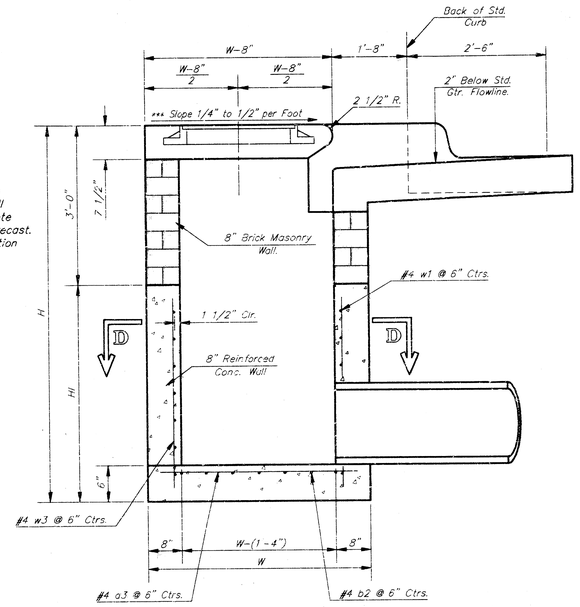


NOTE:
Expansion Joint Only in Curb Area With Concrete Pavement.

PLAN

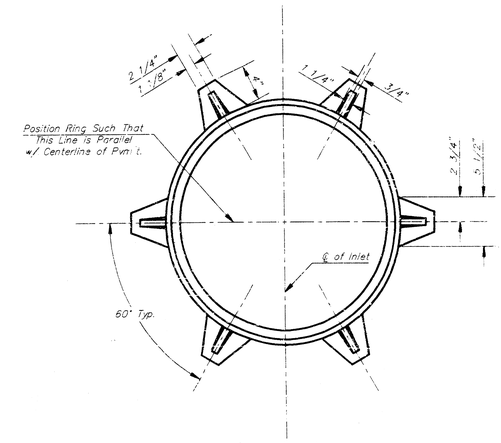
NOTE:
Inlet Top Reinforcing shall be Spaced on 6" Max. Centers. Inlet Lids Shall be Notched Out as Indicated to Facilitate Construction of Curb.

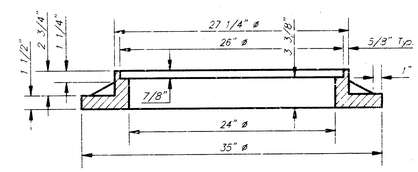
NOTE:
Concrete Tops to be installed on thin mortar cushion to insure full support along brick walls. Concrete tops may be cast in place or precast. Concrete used for inlet construction shall be concrete pavement mix with air entrainment.



SECTION A–A

***NOTE: Slope of Inlet tops to Match Sidewalk or Parking Slopes within Limits Indicated.

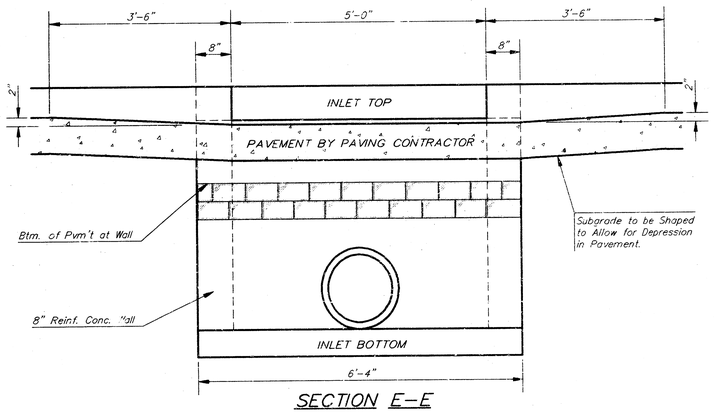




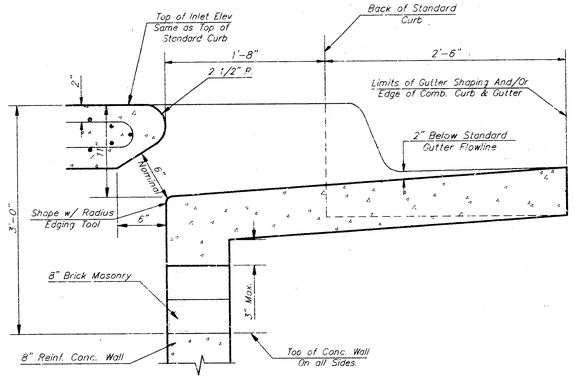
MANHOLE RING AND COVER

Weight = 180 Lbs.

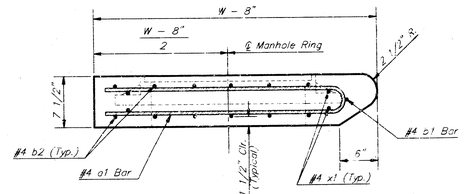
*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.



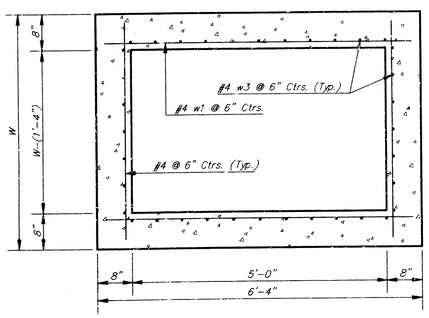
SECTION E–E



SECTION B–B



SECTION A–A



SECTION D–D

NOTE: Contractor shall have the option of constructing 8" brick masonry walls between the concrete inlet base and top on this inlet when W=6'-4" and H=7'-0" or less.

Additional curb and gutter construction necessary to connect set-back inlet to pavement will be paid for at the unit price bid for each inlet hookup.

Inlet invert shall be shaped with 8 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.

The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall

PRECAST SLAB AND FLOOR REINFORCING

		W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
* a1	#4	6	6'-7"	6	8'-7"	6	10'-7"	6	12'-7"	6	14'-7"
a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"
a3	#4	13	4'-1"	13	5'-1"	13	6'-1"	13	7'-1	13	8'-1"
b1	#4	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"
* b2	#4	23	6'-1"	29	6'-1"	35	6'-1"	41	6'-1"	47	6'-1"
x1	#4	8	3'-10"	8	4'-2"	8	4'-6"	8	4'-10"	8	5'-2"

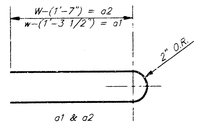
WALL REINFORCING

		W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
w1	#4	①	6'-1"	①	6'-1"	①	6'-1"	①	6'-1"	①	6'-1"
w2	#4	①	4'-1"	①	5'-1"	①	6'-1"	①	7'-1"	①	8'-1"
w3	#4	32	②	36	②	40	②	44	②	48	②

* Field Bend or Cut Reinforcing as Required for Clearance.

① 4 (HI - 12") (HI - 21") Rounded down to nearest 0.5'

② HI - 3"



BENDING DIAGRAM

STANDARD CURB INLET PRECAST TOPS

W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" x 6'-4" x 7 1/2"	21" & SMALLER	0.38±
5'-4"	4'-8" x 6'-4" x 7 1/2"	24" & 30"	0.51±
6'-4"	5'-8" x 6'-4" x 7 1/2"	36" & 42"	0.64±
7'-4"	6'-8" x 6'-4" x 7 1/2"	48" & 54"	0.77±
8'-4"	7'-8" x 6'-4" x 7 1/2"	60" & 66"	0.90±

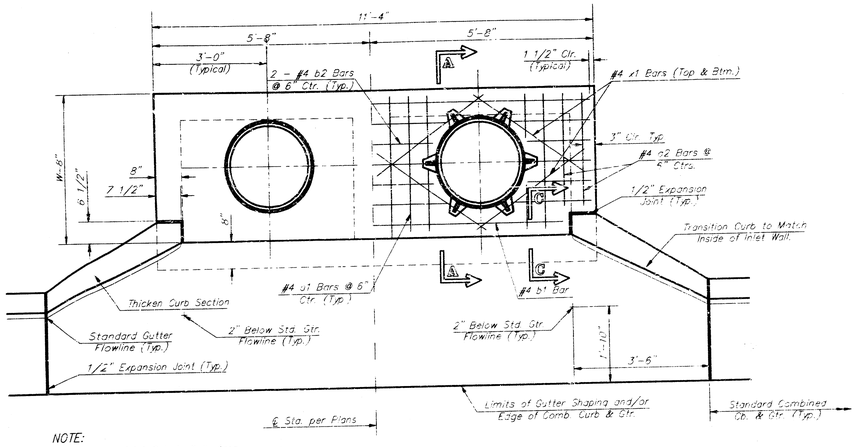
Revised – Feb. 16, 1989

CITY OF WICHITA STANDARD TYPE 1A
CURB INLET DETAILS
INLET OPENING = 6" x 5'-0"

PROJECT NUMBER 468-76-245-82354-000-000-001

SHEET 5 OF 9

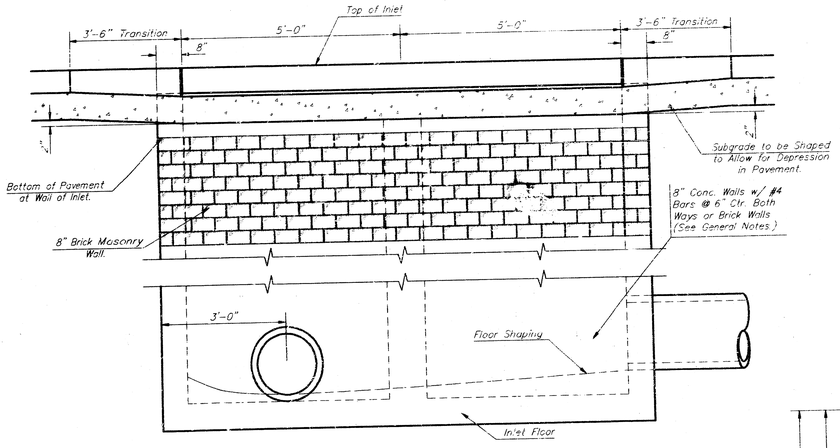
BAUGHMAN COMPANY P. A.
ENGINEERING & SURVEYING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211



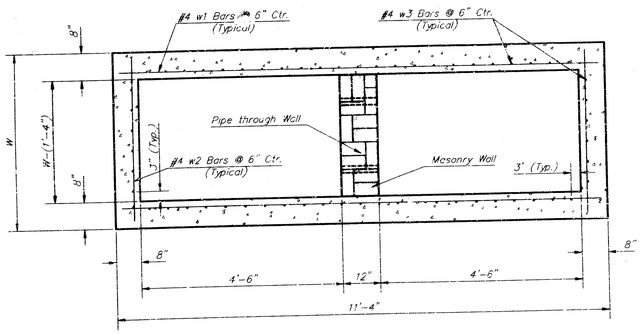
NOTE:
Expansion Joint Only in Curb Area with Concrete Pavement.

PLAN

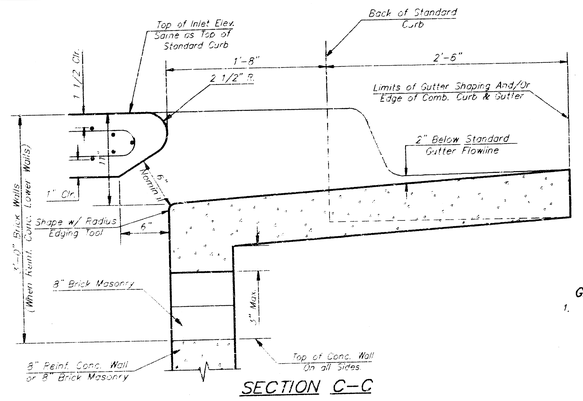
•Left Side Shown Without Slab Reinforcing.
Right Side Shown With Slab Reinforcing



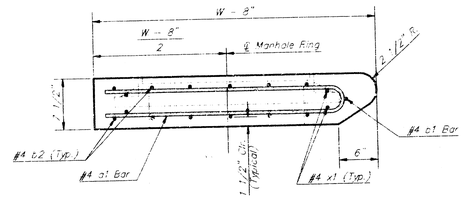
ELEVATION



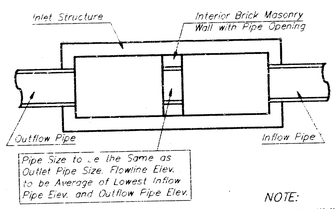
SECTION B-B



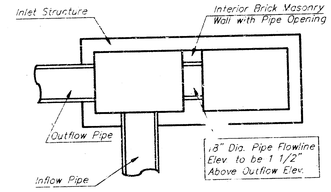
SECTION C-C



SECTION A-A

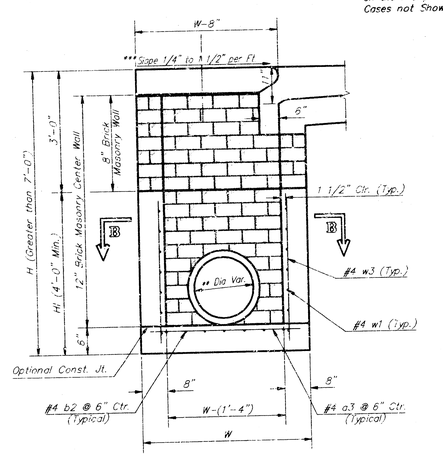


CASE I



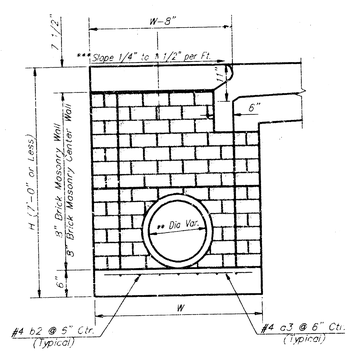
CASE II

NOTE:
Center Wall Pipe Size shall be as Specified in Inlet Construction Notes on the Plan/Profile Sheets for those Cases not Shown Here.



TYPICAL INLET SECTION AT CENTER WALL

(Reinforced Concrete Walls)



TYPICAL INLET SECTION AT CENTER WALL

(Masonry Walls)

NOTES:
** A center wall opening shall be provided by means of a section of reinforced concrete pipe. See Case I and Case II above.
*** Slope of inlet tops to match sidewalk of parking slopes within limits indicated

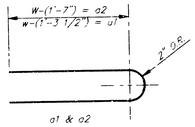
PRECAST SLAB AND FLOOR REINFORCING											
		W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
• a1	#4	13	6'-7"	13	8'-7"	13	10'-7"	13	12'-7"	13	14'-7"
a2	#4	4	5'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"
a3	#4	23	4'-1"	23	5'-1"	23	6'-1"	23	7'-1"	23	8'-1"
b1	#4	1	9'-9"	1	9'-9"	1	9'-9"	1	9'-9"	1	9'-9"
• b2	#4	23	11'-1"	29	11'-1"	35	11'-1"	41	11'-1"	47	11'-1"
x1	#4	16	3'-10"	16	4'-2"	16	4'-6"	16	4'-10"	16	5'-2"

WALL REINFORCING											
		W = 4'-4"		W = 5'-4"		W = 6'-4"		W = 7'-4"		W = 8'-4"	
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
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"	①	7'-1"	①	8'-1"
w3	#4	52	②	56	②	60	②	64	②	68	②

• Field Bend or Cut Reinforcing as Required for Clearance.
① 4 (Hi - 12") (Hi - 21") Rounded down to nearest 0.5'
② Hi - 3"

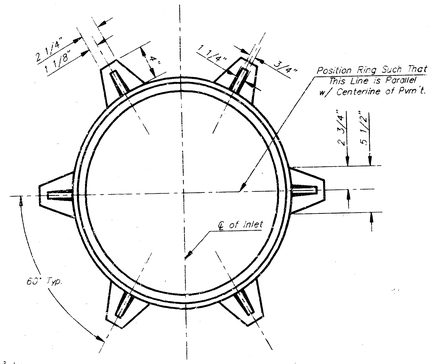
GENERAL NOTES:

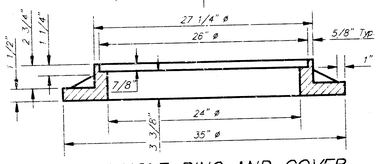
1. The contractor shall be required to construct 8" brick masonry walls between the concrete inlet base and top on this inlet when W=6'-4" or less and H=7'-0" or less. When W is greater than 6'-4" and H is less than 7'-0" the outside inlet walls below the brick stack shall be reinforced concrete construction and the center wall shall be of masonry construction as shown for the masonry wall option.
2. Inlet invert shall be shaped with 8 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 6" 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.



BENDING DIAGRAM

STANDARD CURB INLET PRECAST TOPS				
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	5'-8" 11'-4" 7 1/2"	21" & SMALLER	0.83±
5'-4"	6'-8" 11'-4" 7 1/2"	24" & 30"	1.06±
6'-4"	5'-8" 11'-4" 7 1/2"	36" & 42"	1.35±
7'-4"	6'-8" 11'-4" 7 1/2"	48" & 54"	1.6'±
8'-4"	7'-8" 11'-4" 7 1/2"	60" & 66"	1.87±





MANHOLE RING AND COVER

Weight = 180 lbs.

•See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.

Revised - Feb. 16, 1989

CITY OF WICHITA STANDARD TYPE 1A
CURB INLET DETAILS
INLET OPENING = 6" x 10'-0"

PROJECT NUMBER 468-76-245-82354-000-000-001 | SHEET 6 OF 9

BAUGHMAN COMPANY P. A.
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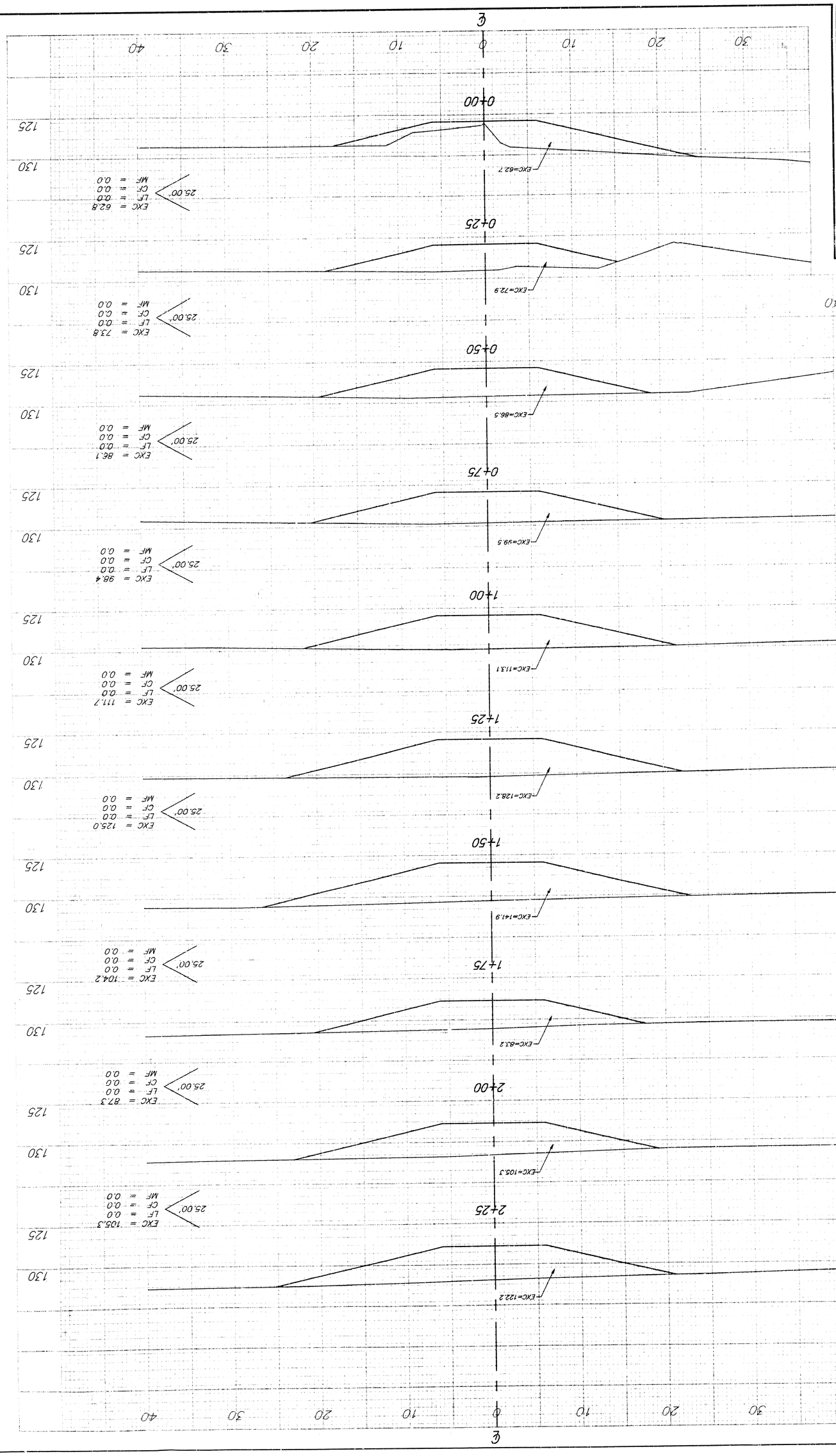


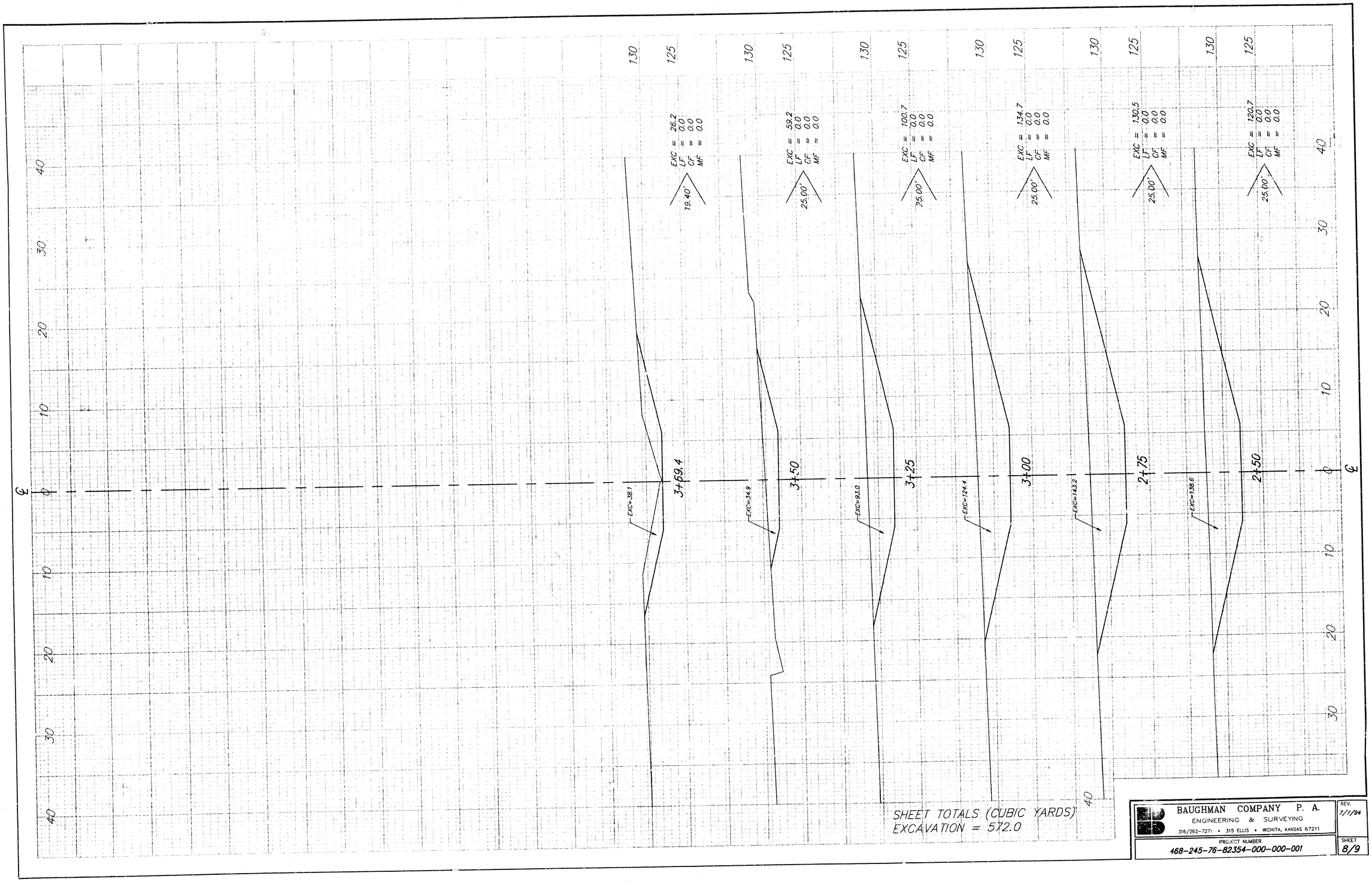
SHEET TOTALS (CUBIC YARDS)
EXCAVATION = 854.6

BAUGHMAN COMPANY P. A.
ENGINEERING & SURVEYING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

PROJECT NUMBER
468-76-245-82354-000-000-001

REV. 7/7/94

SHEET 7/9



BAUGHMAN COMPANY P. A.
ENGINEERING & SURVEYING
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

REV. 7/1/94

PROJECT NUMBER
468-245-76-82354-000-000-001

SHEET 8/9

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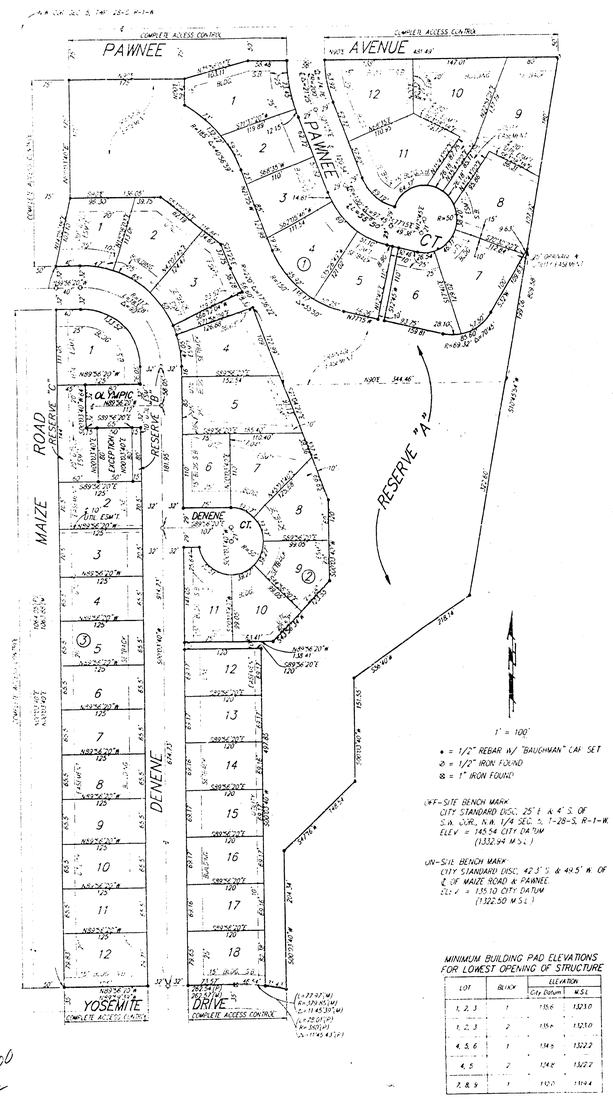
WILDERNESS AT THE PARK

AN ADDITION TO

WICHITA, SEDGWICK COUNTY, KANSAS



MINIMUM BUILDING PAD ELEVATIONS FOR LOWEST OPENING OF STRUCTURE

LOT	BLOCK	ELEVATION City Datum	M.S.L.
1, 2, 3	1	1356	1323.0
1, 2, 3	2	1354	1321.0
4, 5, 6	1	1349	1322
4, 5	2	1348	1322
7, 8, 9	1	1350	1324

20.00 ck

State of Kansas)
Sedgwick County) SS

We, Baughman Company, P.A., Surveyors in aforesaid county and state do hereby certify that we have surveyed and platted "WILDERNESS AT THE PARK", an Addition to Wichita, Sedgwick County, Kansas, and that the accompanying plat is a true and correct exhibit of the land described as and being a replat of Lots 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, and 63, Block 1 and Lots 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, and 18, Block 2 together with all of Pawnee Court, Olympic Court, Olympic Circle, Shenandoah Drive and Shenandoah Courts lying within said Blocks 1 and 2, and together with all of Reserve "A" within said Block 1 lying west of the following described line: Beginning at the N.E. Corner of said Reserve "A" in said Block 1; thence S1°15'54"W along the existing east line of said Reserve "A" and extended 809.58 feet; thence S56°40'W, 218.14 feet; thence S00°03'40"W, 151.55 feet; thence S47°16'W, 148.54 feet; thence S00°03'40"W, 204.84 feet to a point on the north line of Yosemite Drive, and all of Reserve A, within said Block 2, All as Platted in THE PARK, an Addition To Wichita, Sedgwick County, Kansas.

All being situated in the N.W. 1/4 of Sec. 5, Twp. 28-S, R-1-W of the 6th P.M., Sedgwick County, Kansas.

Existing easements and dedications being vacated by virtue of K.S.A. 12-512(b).

Baughman Company, P.A.

7/7/93
Date

Gregory F. Severns — Surveyor
Gregory F. Severns

Know all men by these presents that we, the undersigned, have caused the land described in the surveyors certificate to be platted into lots, blocks, streets and reserves to be known as "WILDERNESS AT THE PARK", an Addition to Wichita, Sedgwick County, Kansas. The utility easements are hereby granted as indicated for the construction and maintenance of all public utilities. The drainage and utility easement is hereby granted for drainage purposes and for the construction and maintenance of all public utilities. The streets are hereby dedicated to and for the use of the public. Reserve "A" is hereby reserved for open space, recreational uses, sidewalks, and drainage and utility easements. The drainage easement in said Reserve "A" is hereby granted for drainage purposes. Reserve "A" shall be maintained by the Homeowner's Association. Reserves "B" and "C" are hereby reserved for landscaping, open space, and the construction and maintenance of all public utilities as confined to easements. Reserves "B" and "C" shall be owned and maintained by the owner of Lot 1, Block 3. All abutters rights of access to and from Pawnee Ave. over and across the north line of Lots 1, 9, 10, and 12, Block 1, and the north line of Reserve "A" are hereby granted to the City of Wichita, Kansas. All abutters rights of access to and from Maize Road over and across the west line of Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12, Block 3, the west line of Lot 1, Block 2, and the west line of Reserves "A" and "C" are hereby granted to the City of Wichita, Kansas. All abutters rights of access to and from Yosemite Drive over and across the south line of Lot 12, Block 3, and Lot 18, Block 2 are hereby granted to the City of Wichita, Kansas. The Minimum Building Pad Elevations for the lowest opening to the structures are as shown on the face of the plat.

A. J. Soerries — Carrol M. Soerries

The Park Homeowners' Association, No. 1

Mark P. Borofsky 9-6-93 President
Mark Borofsky

Attest: Karen Shope 9-6-93 Secretary
Karen Shope

We, the undersigned, holders of a mortgage on the above described property do hereby consent to this plat of "WILDERNESS AT THE PARK", an Addition to Wichita, Sedgwick County, Kansas.

Emprise Bank

Larry G. Burns, Sr. V.P.
Larry G. Burns (Title)

State of Kansas)
Sedgwick County) SS

The foregoing instrument acknowledged before me this 8th day of September, 1993, by Larry G. Burns, Sr. V.P. (Title) of Emprise Bank, on behalf of the bank.

My App't Exp. 8-10-94 — Melanie H. Penner Notary Public
Melanie H. Penner

State of Kansas)
Sedgwick County) SS

The foregoing instrument was acknowledged before me this 7th day of September, 1993, by A. J. Soerries and Carrol M. Soerries, husband and wife.

My App't Exp. 5-4-96 — Lenna J. Chappelle Notary Public
Lenna J. Chappelle

State of Kansas)
Sedgwick County) SS

The foregoing instrument was acknowledged before me this 7th day of September, 1993, by Mark Borofsky, President of The Park Homeowners' Association, No. 1, on behalf of the association.

TED E. KNOPP
NOTARY PUBLIC
STATE OF KANSAS
My Appt. exp. Mar 3, 95

My App't Exp. 3-3-95 — Tad E. Knopp Notary Public
Tad E. Knopp

This plat of "WILDERNESS AT THE PARK", an Addition to Wichita, Sedgwick County, Kansas has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas,

Dated this 16th day of November, 1993.

Wichita-Sedgwick County Metropolitan Area Planning Commission

Chairman

Secretary
Marvin S. Krout

This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this 16th day of November, 1993.

Mayor
Elma Broadfoot

Pat Burnett — Deputy City Clerk
Pat Burnett

Entered on transfer record this 16th day of November, 1993.

County Clerk
Susan E. Crockett-Spoon

#1341676

State of Kansas)
Sedgwick County) SS

This is to certify that this plat has been filed for record in the office of the Register of Deeds this 10TH day of DECEMBER, 1993 7:00 o'clock A.M., and is duly recorded.

Pat Kettler — Register of Deeds
Pat Kettler

Ed Resa — Deputy
Ed Resa

93-5 9/9