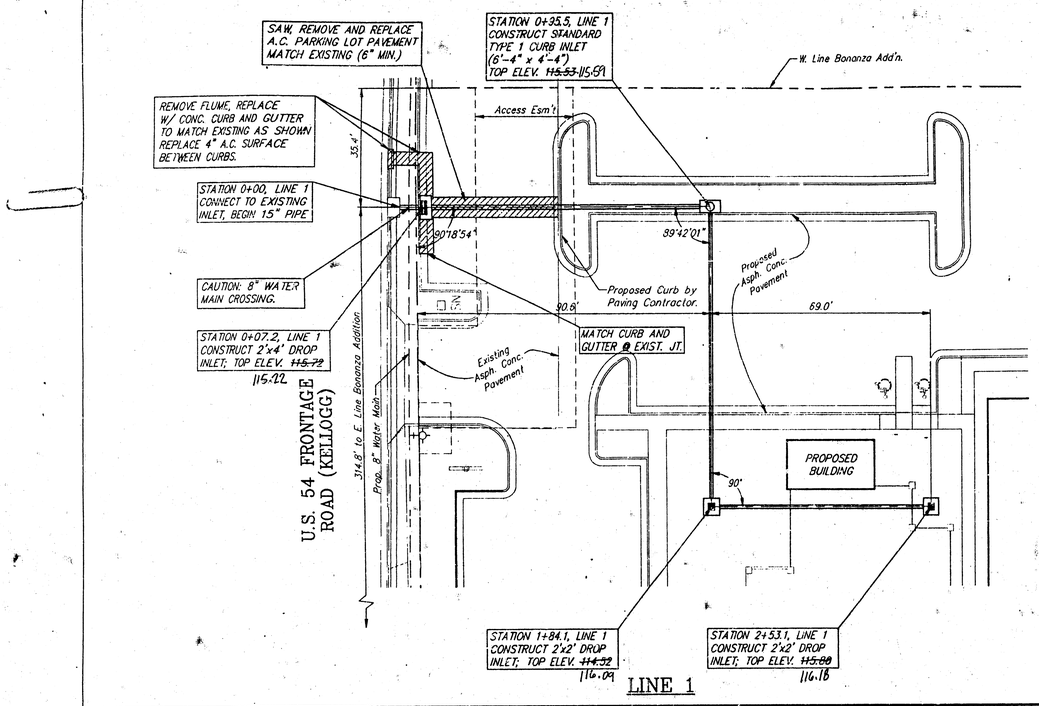
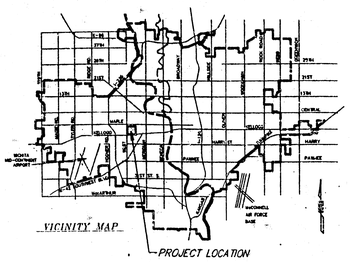




APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Sanitary Sewers _____

Storm Sewers VRH 9/13/94

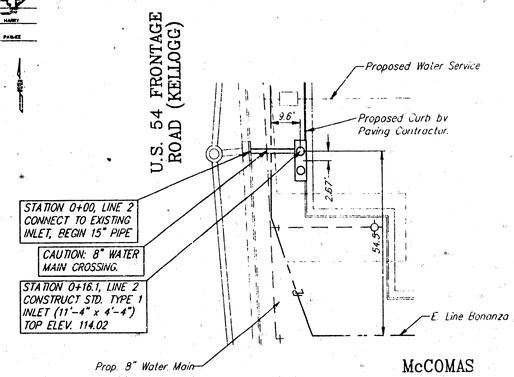
Driveway Approaches _____

Water Mains _____

Paving _____

NOTE TO CONTRACTORS

Inspection and testing for this project are to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said Inspection to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection, nor shall any work be commenced without written authorization by the City Engineer.



SRB

SCALE:
1" = 20' PLAN
1" = 5' PROFILE (VERT.)

GENERAL NOTES

1. The Contractor shall give all property owners and/or tenants of developed property directly abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.
2. 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 laws.
3. Contractor will be required to provide a minimum notice of twenty-four (24) hours to utility companies prior to starting any excavation as follows.

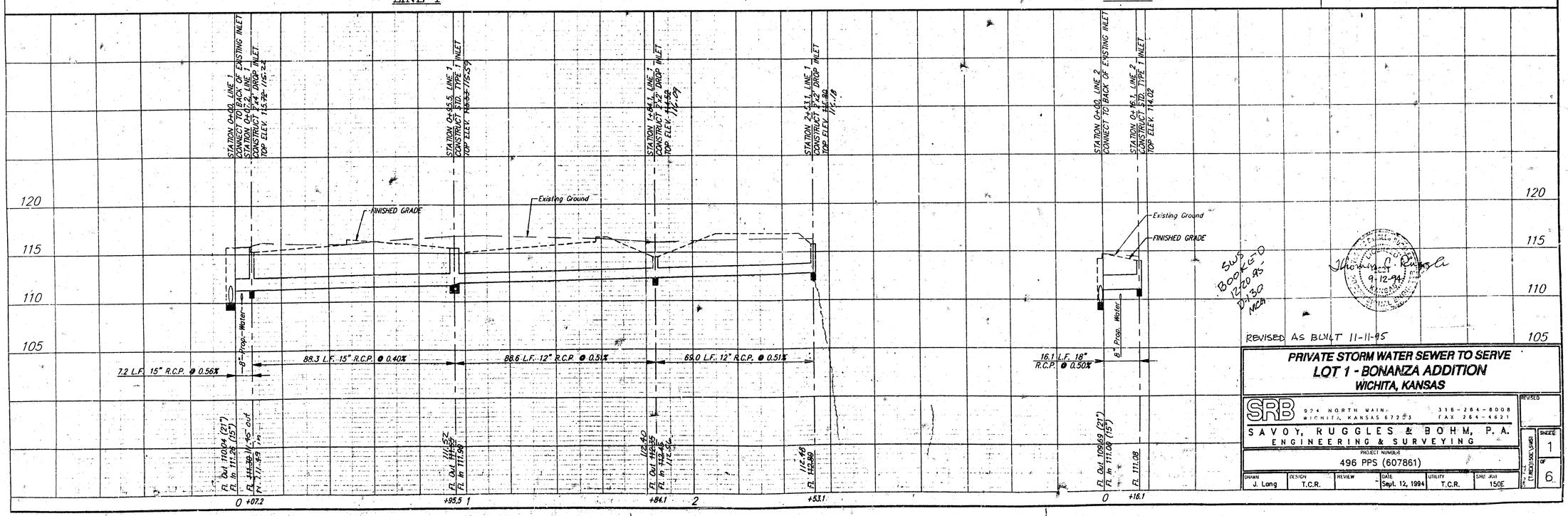
   Kansas One-Call 811 or 1-800-344-7233
4. The Contractor shall be responsible for traffic control to maintain traffic at all times on U.S. 54 Frontage Rd.
5. All work on this project shall be done in accordance with City of Wichita Standard Specifications for storm sewers and drainage.
6. Trench backfill shall be compacted to Standard Proctor Density of 95% min.
7. All disturbed areas within street right of way which are unpaved are to be seeded and fertilized.

BENCH MARK

1. Square cut on midpoint of high egde of curb return McComas and Frontage Road. Elev. 112.95 City Datum

INDEX

1. Plan/Profile
2. Drop Inlet Detail
3. Type 1 Inlet Details
4. Drainage Plan
5. Plat of Bonanza Addn



SWD BOOK E-D 1220.95 PG 130 NCA

Thomas C. Ruggels
LICENSED PROFESSIONAL ENGINEER
9-12-94

REVISED AS BUILT 11-11-95

PRIVATE STORM WATER SEWER TO SERVE
LOT 1 - BONANZA ADDITION
WICHITA, KANSAS

SRB 924 NORTH MAIN WICHITA, KANSAS 67203 316-264-8008 FAX 264-4621

SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

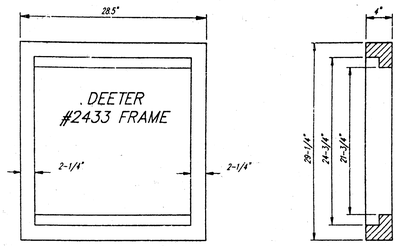
PROJECT NUMBER
496 PPS (607861)

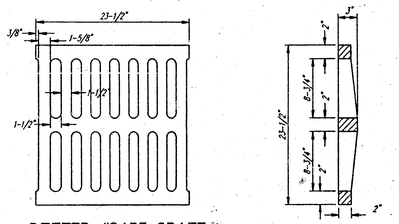
DRAWN	DESIGN	REVIEW	DATE	UTILITY	SRB Job
J. Lang	T.C.R.		Sept. 12, 1994	T.C.R.	150E

REVISED

SHEET 1 OF 6

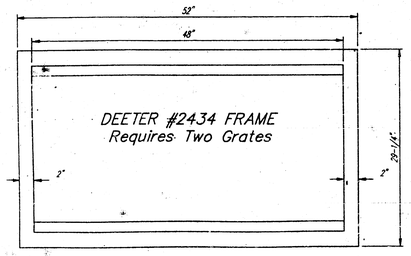
PRINT FILE C:\RB2\150E\SHEET

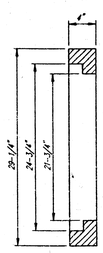




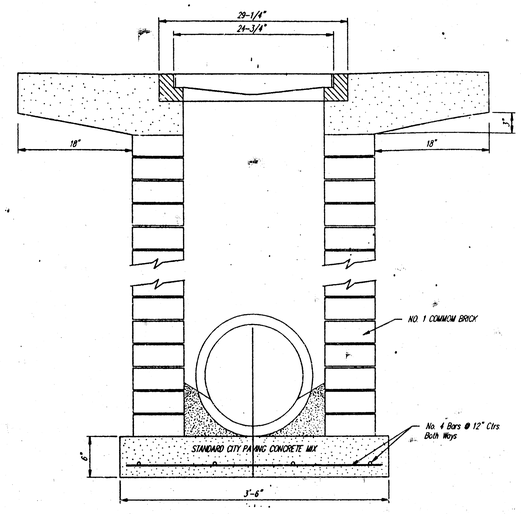
DEETER #2433 GRATE

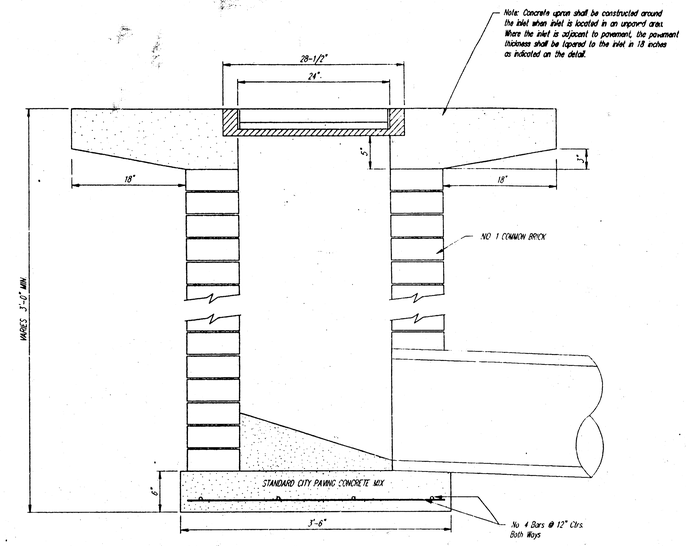
24" x 24" Frame and Grate Detail

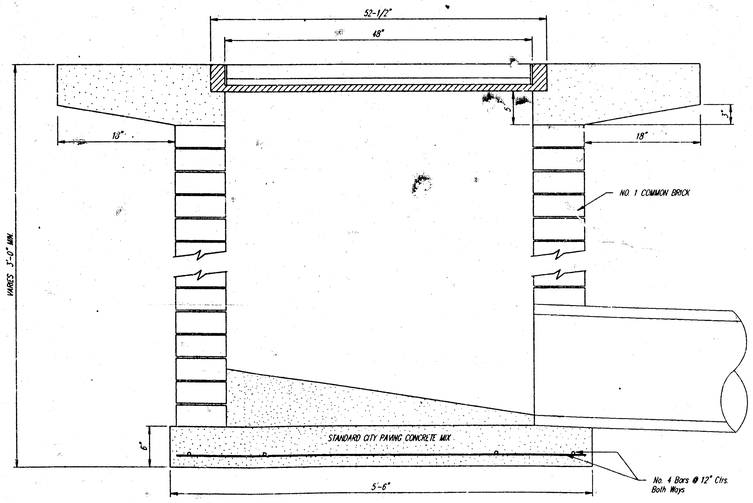




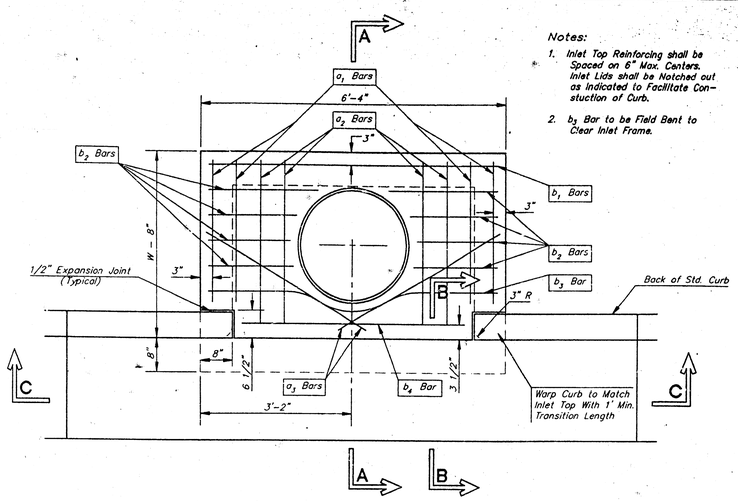
Double 24" x 24" Frame Detail







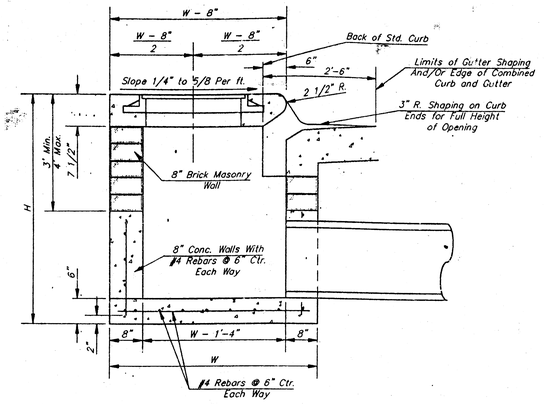
DROP INLET DETAILS	2
496 PPS (607861)	6



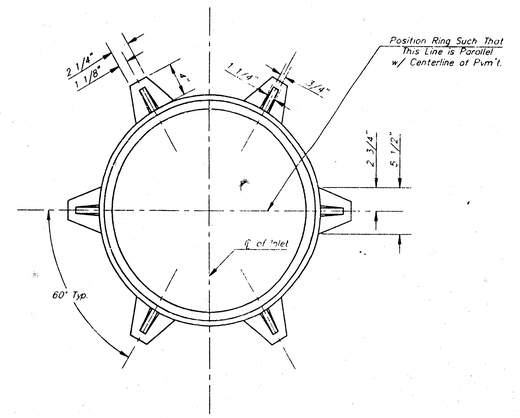
PLAN

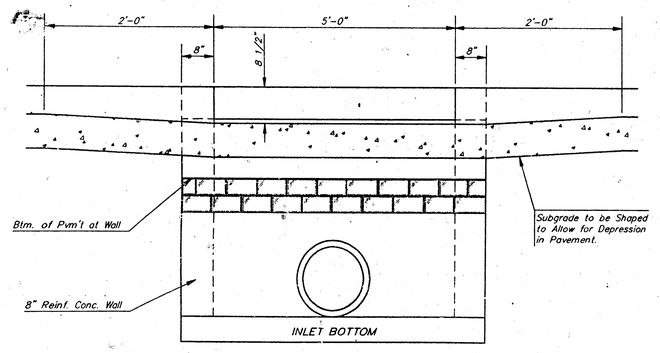
Notes:

1. Inlet Top Reinforcing shall be Spaced on 6" Max. Centers. Inlet Lids shall be Notched out as Indicated to Facilitate Construction of Curb.
2. b_2 Bar to be Field Bent to Clear Inlet Frame.

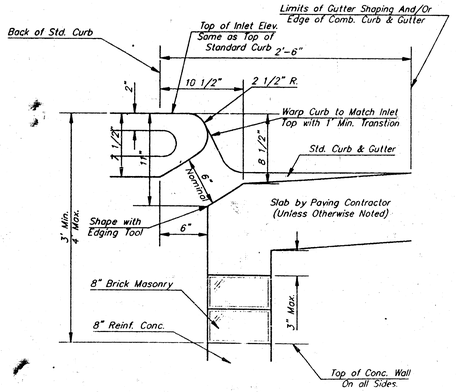


SECTION A–A

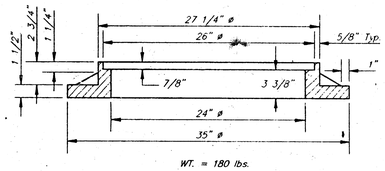




SECTION C–C



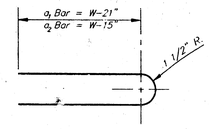
SECTION B–B



WT. = 180 lbs.

MANHOLE RING AND COVER

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



BENDING DIAGRAM

STEEL SCHEDULE

	BAR	a_1	a_2	a_3	b_1 W=4'-4"	b_1 W=5'-4"	b_1 W=6'-4"	b_1 W=7'-4"	b_1 W=8'-4"	b_2	b_3	b_4	Wt. Lbs.
	NUMBER	4	4	2	1	3	5	7	9	6	1	1	
	SIZE	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#6	
LENGTH	W=4'-4"	5'-7"	6'-7"	4'-0"	6'-1"	–	–	–	–	1'-9"	6'-2"	4'-8"	60±
	W=5'-4"	7'-7"	8'-7"	5'-0"	–	6'-1"	–	–	–	1'-9"	6'-2"	4'-8"	81±
	W=6'-4"	9'-7"	10'-7"	6'-0"	–	–	6'-1"	–	–	1'-9"	6'-2"	4'-8"	101±
	W=7'-4"	11'-7"	12'-7"	7'-0"	–	–	–	6'-1"	–	1'-9"	6'-2"	4'-8"	121±
	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.

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

GENERAL NOTES

1. 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.
2. 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.
3. 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.
4. The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.

CITY OF WICHITA, KANSAS
STANDARD TYPE 1 INLET DETAILS
LOT 1, BONANZA ADDITION

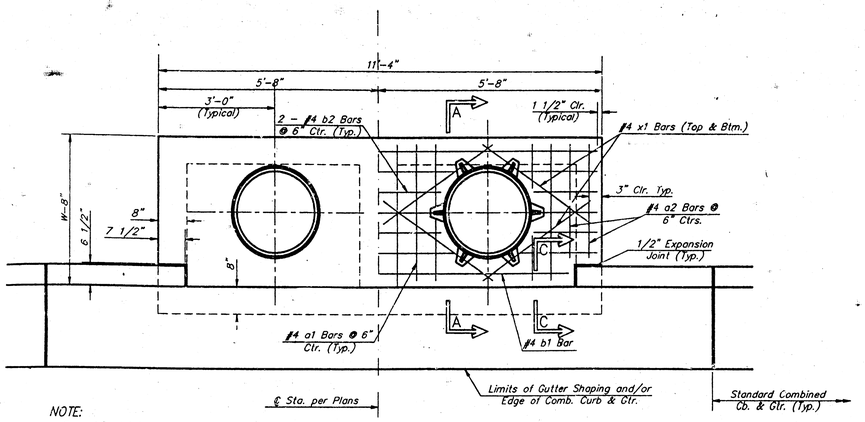
SRB
924 NORTH MAIN
WICHITA, KANSAS 67203
316-264-8008
FAX 264-4621
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

PROJECT NUMBER
496 PPS (607861)

DRAWN	DESIGN	REVIEW	DATE	UTILITY	SRB JOB
J. Lang	T.C.R.		Sept. 6, 1994	T.C.R.	150E

REVISED

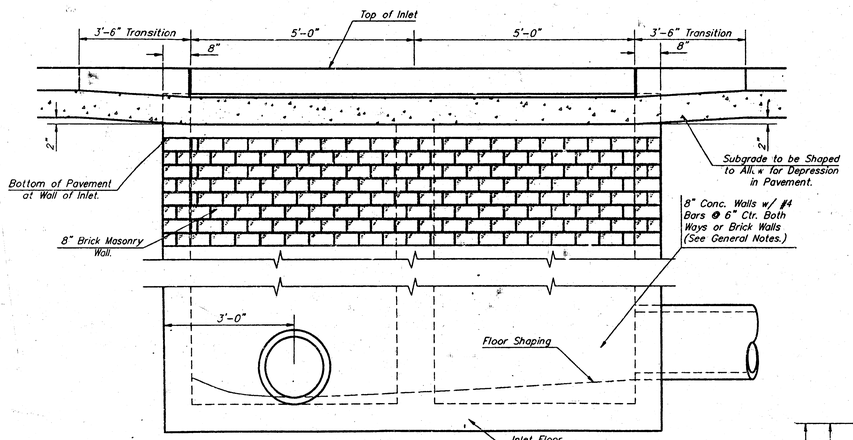
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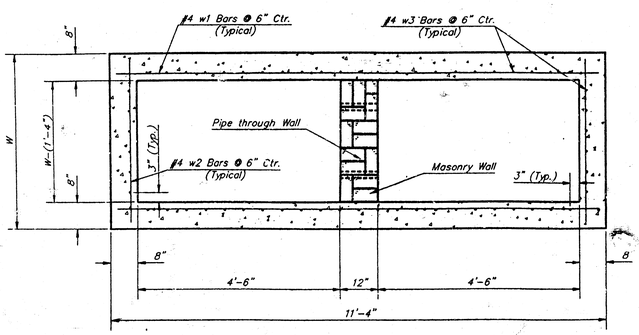
NOTE:
Expansion Joint Only in Curb Area with Concrete Pavement.

PLAN

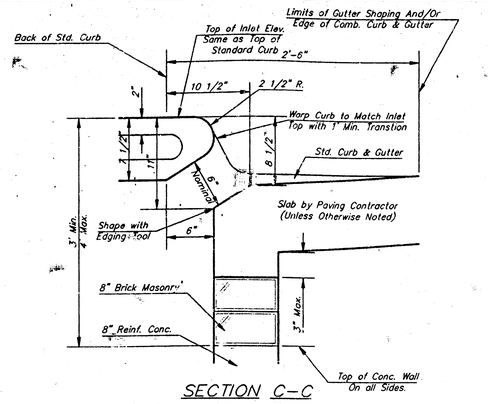
*Left Side Shown Without Slab Reinforcing, Right Side Shown With Slab Reinforcing



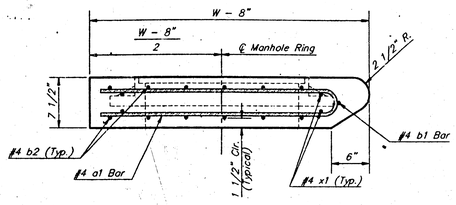
ELEVATION



SECTION B-B



SECTION C-C



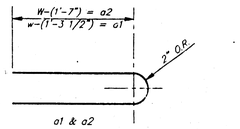
SECTION A-A

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	6'-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	3'-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"

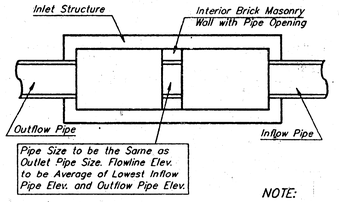
GENERAL NOTES:

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.

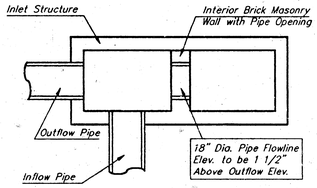


BENDING DIAGRAM

STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" 11'-4" 7 1/2"	21" & SMALLER	0.83±
5'-4"	4'-8" 11'-4" 7 1/2"	24" & 30"	1.09±
6'-4"	5'-8" 11'-4" 7 1/2"	36" & 42"	1.35±
7'-4"	6'-8" 11'-4" 7 1/2"	48" & 54"	1.61±
8'-4"	7'-8" 11'-4" 7 1/2"	60" & 66"	1.97±

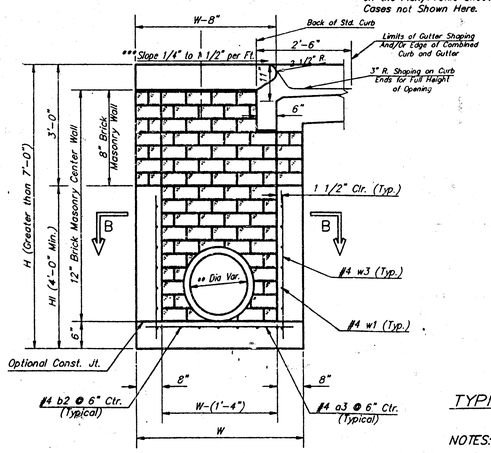


CASE I



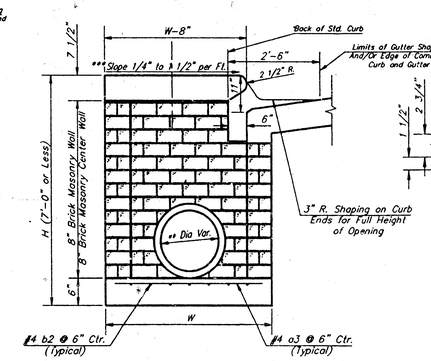
CASE II

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

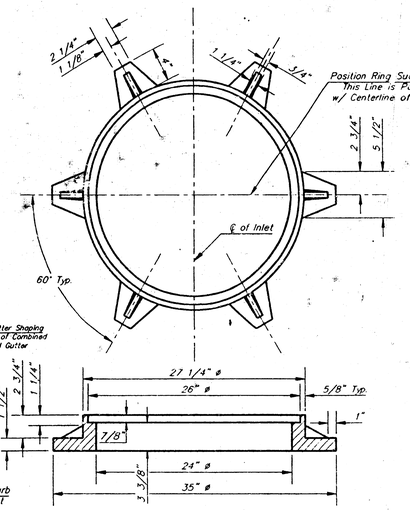
(Reinforced Concrete Walls)



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



MANHOLE RING AND COVER

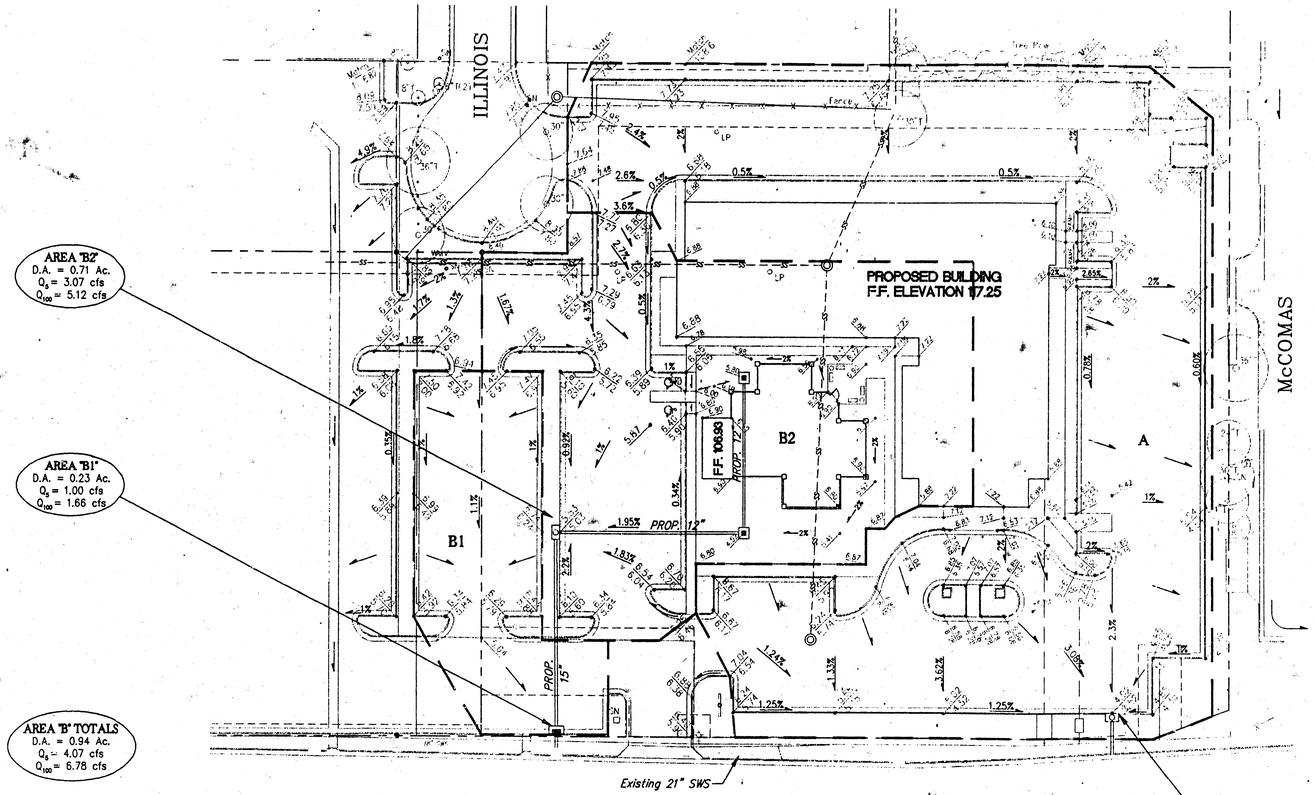
Weight = 180 lbs.

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

Revised - Feb. 16, 1989

TYPE 1 INLET (LENGTH = 10.0')
CITY OF WICHITA, KANSAS

Sheet 4 of 6



SCALE:
1"=30'-0"

BENCH MARK

1. Square cut on midpoint of high egde of curb return@ NE cor. McComas and Frontage Road. Elev. 112.95 City Datum

DRAINAGE CALCULATIONS

PEAK RUNOFF RATES BY RATIONAL METHOD FOR 5-YEAR AND 100-YEAR FREQUENCIES. ($Q = C \times I \times A$).
TIME OF CONCENTRATION = 15 MINUTES
C_5 = 0.95 C_{100} = 0.98
I_5 = 4.56 in./hr. I_{100} = 7.37 in./hr.
THESE VALUES USED FOR ALL AREAS:
Q_5 = 4.33 cfs/acre
Q_{100} = 7.22 cfs/acre

TOTAL AREA OF LOT 1, BONANZA ADD'N = 2.09 Acres
IMPERVIOUS AREA = 96.7%
PERVIOUS AREA = 3.3%
SITE INCLUDES 0.20 Ac. WEST OF AND ADJACENT TO LOT 1.

DRAINAGE PLAN
LOT 1 - BONANZA ADDITION
WICHITA, KANSAS

SRB 924 NORTH MAIN WICHITA, KANSAS 67203 316-264-8008 FAX 264-4621
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

REVISED

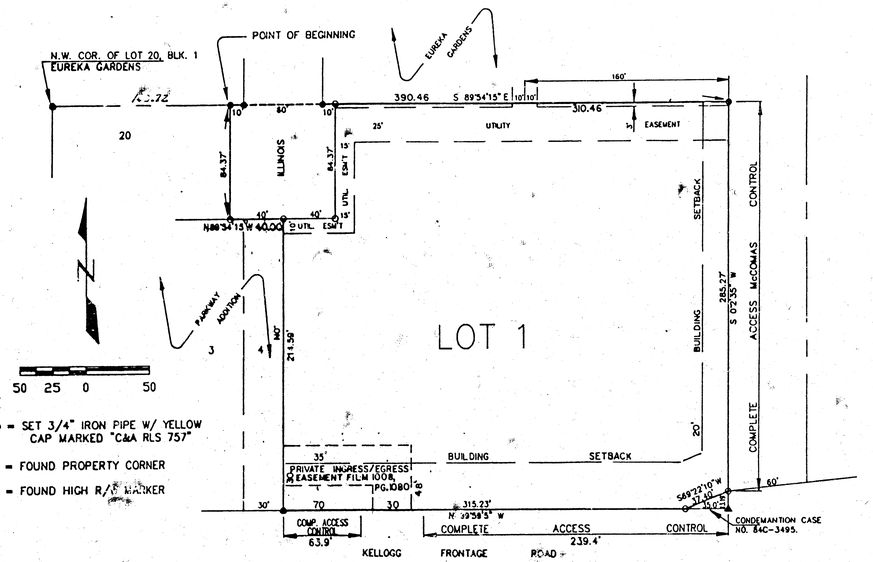
PROJECT NUMBER
496 PPS (607861)

DRAWN	DESIGN	REVIEW	DATE	UTILITY	SRU JOU
J. Lang	T.C.R.		Sept. 6, 1994	T.C.R.	150E

SHEET 5 OF 6

BONANZA ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS



I, RAYMOND M. HUBBELL, THE UNDERSIGNED, REGISTERED LAND SURVEYOR OF THE STATE OF KANSAS, DO HEREBY CERTIFY THAT I CAUSED TO HAVE SURVEYED AND PLATTED BONANZA ADDITION, WICHITA, SEDGWICK COUNTY, KANSAS; DESCRIBED AS BEGINNING AT A POINT ON THE NORTH LINE OF LOT 20, BLOCK 1, EUREKA GARDENS TO SEDGWICK COUNTY, KANSAS (NOW IN WICHITA), SAID POINT BEING 140.72 FEET EAST OF THE NORTHWEST CORNER OF SAID LOT 20, BLOCK 1; THENCE SOUTH, PARALLEL WITH THE EAST LINE OF SAID LOT 20, BLOCK 1, TO A POINT ON THE NORTH LINE OF PARKWAY ADDITION TO WICHITA, KANSAS; THENCE EAST ALONG SAID NORTH LINE A DISTANCE OF 40 FEET; THENCE SOUTH PARALLEL WITH AND 30 FEET EAST OF THE WEST LINE OF LOT 4 OF SAID PARKWAY ADDITION TO THE SOUTH LINE OF SAID LOT 4; THENCE EAST ALONG THE SOUTH LINES OF LOTS 4, 5, AND VACATED ALLEY OF SAID PARKWAY ADDITION AND THE SOUTH LINE OF LOT 23, BLOCK 2 OF SAID EUREKA GARDENS TO A POINT 35 FEET WEST OF THE EAST LINE OF SAID LOT 23, BLOCK 2; THENCE NORTHEASTERLY TO A POINT ON THE EAST LINE OF SAID LOT 23 AND 13.19 FEET NORTH OF THE SOUTHEAST CORNER OF SAID LOT 23; THENCE NORTH ALONG THE EAST LINE OF SAID BLOCK 2 TO THE NORTHEAST CORNER OF LOT 20, BLOCK 2 OF SAID EUREKA GARDENS; THENCE WEST ALONG THE NORTH LINES AND EXTENDED NORTH LINES OF LOT 20, AND LOT 10, SAID BLOCK 2 TO THE POINT OF BEGINNING; ALL LYING IN SEDGWICK COUNTY, KANSAS.

DATE SIGNED April 8 1994.

RAYMOND M. HUBBELL, L.S. 757

KNOW ALL MEN BY THESE PRESENTS, THAT WE, THE UNDERSIGNED, OWNERS OF THE LAND DESCRIBED IN THE SURVEYOR'S CERTIFICATE TO BE PLATTED INTO A LOT AND STREET TO BE KNOWN AS BONANZA ADDITION, WICHITA, SEDGWICK COUNTY, KANSAS. THE UTILITY EASEMENTS AS INDICATED ARE HEREBY GRANTED TO THE PUBLIC FOR CONSTRUCTION AND MAINTENANCE OF ALL PUBLIC UTILITIES, AND FOR DRAINAGE PURPOSES WITH RIGHTS OF INGRESS AND EGRESS, AND THE STREET IS HEREBY DEDICATED TO AND FOR USE OF THE PUBLIC. THE EASEMENTS AND THAT PART OF ILLINOIS AVENUE DEDICATED BY PREVIOUS PLATS ARE VACATED IN ACCORDANCE WITH KSA 12-512(b).

ALL ABUTTER'S RIGHTS OF ACCESS TO AND FROM McCOMAS, OVER AND ACROSS THE EAST LINE OF LOT 1; AND ALL ABUTTERS RIGHTS OF ACCESS TO AND FROM KELLOGG FRONTAGE ROAD OVER AND ACROSS THE SOUTH LINE OF LOT 1, AS SHOWN ARE HEREBY GRANTED TO THE CITY OF WICHITA, PROVIDED, HOWEVER, THAT LOT 1 SHALL HAVE ACCESS TO KELLOGG FRONTAGE ROAD AT ONE LOCATION, AS SHOWN ON PLAT.

DATE SIGNED April 8 1994. BONANZA, INC.

JACK R. HUNT, PRESIDENT

STATE OF KANSAS)SS
COUNTY OF SEDGWICK)

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON 8th DAY OF April 1994, BY JACK R. HUNT, PRESIDENT, ON BEHALF OF BONANZA, INC.

SEAL OR STAMP

CAROL M. PALMER NOTARY PUBLIC

MY APPOINTMENT EXPIRES April 29, 1996

STATE OF KANSAS)SS
COUNTY OF SEDGWICK)

WE, SOUTHWEST NATIONAL BANK, HOLDERS OF A MORTGAGE ON THE ABOVE DESCRIBED PROPERTY DO HEREBY CONSENT TO THE PLAT OF BONANZA ADDITION, WICHITA, KANSAS

DATE SIGNED APRIL 8 1994 SOUTHWEST NATIONAL BANK

ROBERT HOOPES, PRESIDENT

STATE OF KANSAS)SS
COUNTY OF SEDGWICK)

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON 8th DAY OF APRIL 1994, BY ROBERT HOOPES, PRESIDENT, ON BEHALF OF SOUTHWEST NATIONAL BANK.

SEAL OR STAMP

MOIRA VANLANDINGHAM Notary Public - State of Kansas My Appt. Expires 10/27/97

MOIRA VANLANDINGHAM NOTARY PUBLIC

MY APPOINTMENT EXPIRES: OCTOBER 27, 1997

STATE OF KANSAS)SS
COUNTY OF SEDGWICK)

THIS PLAT APPROVED AND ALL DEDICATIONS SHOWN HEREON, IF ANY, ACCEPTED BY THE CITY COUNCIL OF THE CITY OF WICHITA, KANSAS, THIS DAY OF , 1994.

(SEAL) THE CITY OF WICHITA SEDGWICK COUNTY, KANSAS

ELMA BROADCOT, MAYOR

PAT BURNETT, DEPUTY CITY CLERK

STATE OF KANSAS)SS
COUNTY OF SEDGWICK)

THIS PLAT OF BONANZA ADDITION, WICHITA, SEDGWICK COUNTY, KANSAS, HAS BEEN SUBMITTED TO AND APPROVED BY THE WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION, WICHITA, KANSAS.

DATED THIS 24th DAY OF March, 1994.

(SEAL) WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION SEAL KANSAS

WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION

JAMES D. MINER, CHAIRMAN

MARVIN KROUT, SECRETARY

ENTERED ON TRANSFER RECORD THIS DAY OF , 1994.

, COUNTY CLERK

SUSAN CROCKETT-SPOON

STATE OF KANSAS)SS
COUNTY OF SEDGWICK)

THIS IS TO CERTIFY THAT THIS INSTRUMENT WAS FILED FOR RECORD IN THE REGISTER OF DEEDS OFFICE, AT ____ A.M.-P.M., ON THE ____ DAY OF , 1994.

, REGISTER OF DEEDS

PAT KETTLER

, DEPUTY

ED RESA

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