BENCH MARKS

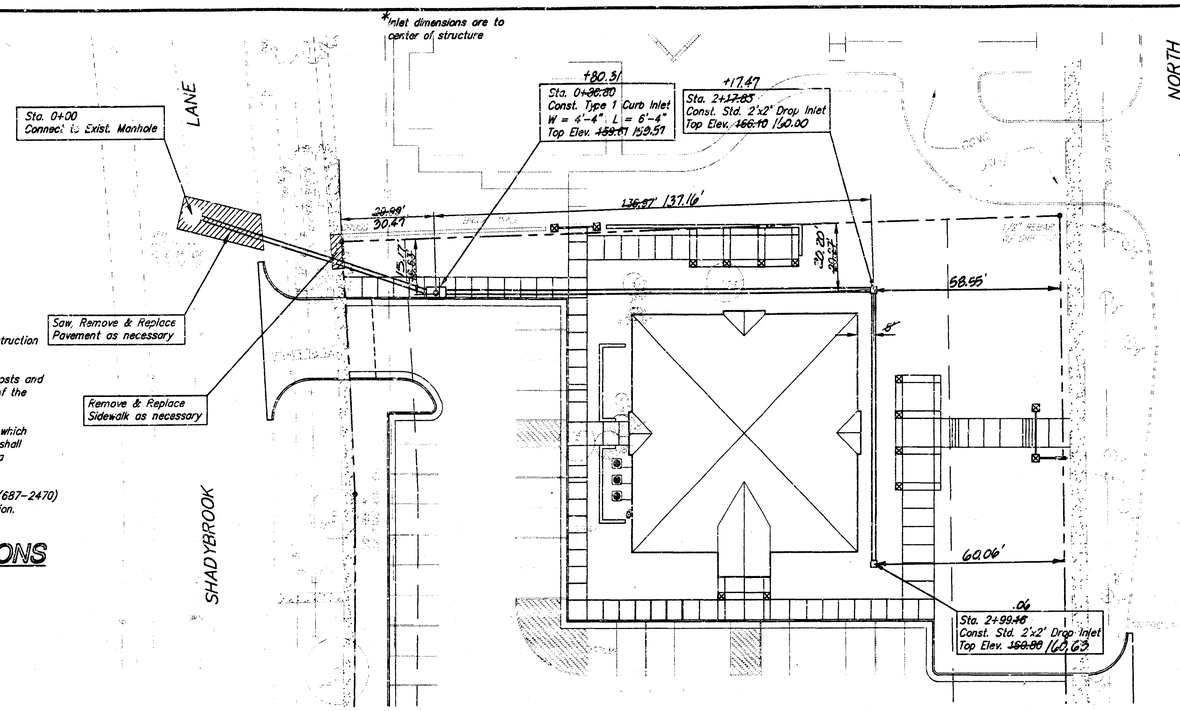
1. "X" CUT @ SW CORNER OF PROPERTY ELEV.= 158.88 (CITY DATUM)
2. "□" CUT ON TOP OF CURB @ NORTH END OF RETURN AT NW CORNER OF SHADYBROOK & CARMEN ELEV.= 152.00 (CITY DATUM)
3. "□" CUT AT BACK OF WALKS; NW CORNER OF HILLSIDE & SHADYBROOK ELEV.= 168.32 (CITY DATUM)

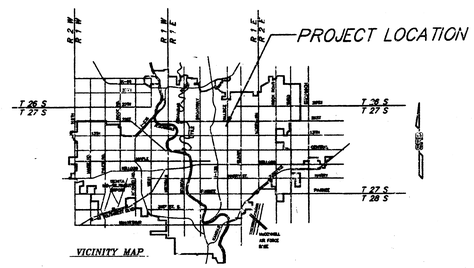
GENERAL NOTES

1. All work on this project shall conform to the Standard Specifications for Storm Sewer Construction of the City of Wichita.
2. The Contractor shall be responsible for any costs and arrangements necessary for any adjustment of the Southwestern Bell cable.
3. All unpaved areas within public right-of-way which may be disturbed by Contractor's operations shall be restored in accordance with City of Wichita Administrative Regulation AR-78.
4. The Contractor shall notify Kansas One-Call (687-2470) a minimum of 24 hours prior to any excavation.

RUNOFF CALCULATIONS

By Rational Formula: $Q=CIA$
Impervious Area = 38371 S.F.
Pervious Area = 15353 S.F.
D.A. (to Storm Sewer) = 1.23 Ac.
$C_{5\ impervious} = 0.85$ $C_{100} = 0.93$
$C_{5\ pervious} = 0.35$ $C_{100} = 0.65$
$C_{5\ weighted} = 0.71$ $C_{100} = 0.85$
Assume time of concentration = 5 min.
$I_5 = 6.53$ in./hr. $I_{100} = 10.32$ in./hr.
$Q_5 = 5.7$ cfs $Q_{100} = 10.8$ cfs





SRB

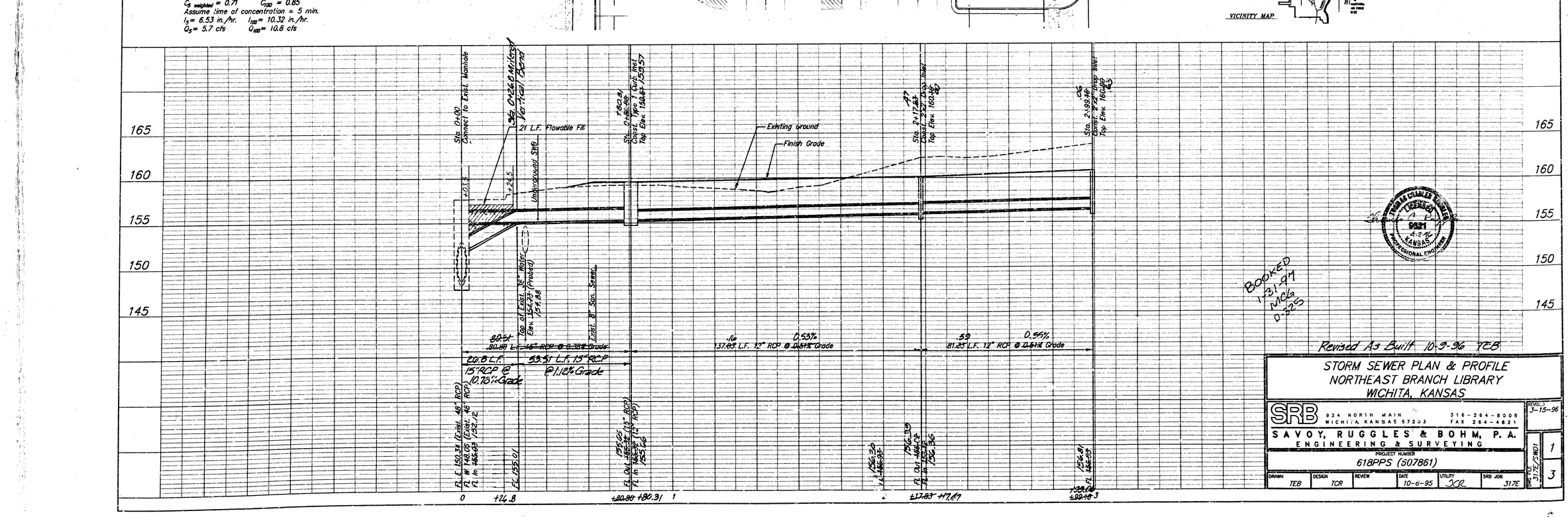
Scale: PLAN
1" = 20'
PROFILE
1" = 20' Horiz.
1" = 5' Vert.

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

Sanitary Sewers _____
Storm Sewers VRH 4/3/96
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.



BOOKED 1-31-97 MCA D-52

Revised As Built 10-3-96 TEB

STORM SEWER PLAN & PROFILE NORTHEAST BRANCH LIBRARY WICHITA, KANSAS

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

REVISED 3-15-96

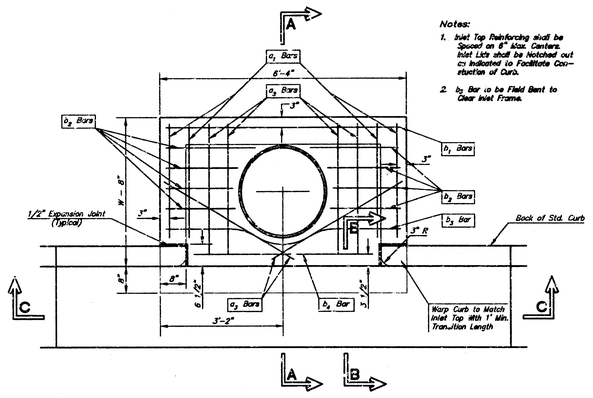
PROJECT NUMBER 618PPS (607861)

DRAWN	DESIGN	REVIEW	DATE	UTILITY	SRB JOB
TEB	TCR		10-6-95	JCR	317E

DWG. FILE/DWG 317E/SWD1

1
3

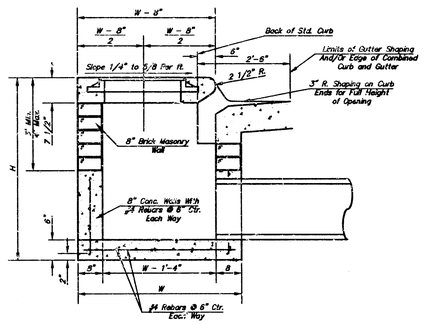
CITY OF WICHITA
TYPE OF SURVEY
9831
A-7-96
KANSAS
PROFESSIONAL ENGINEER



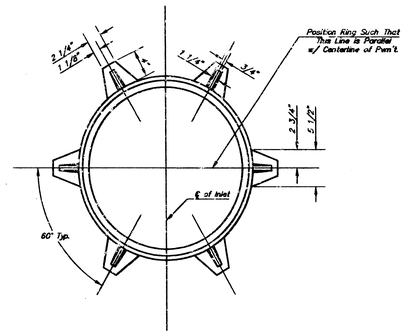
PLAN

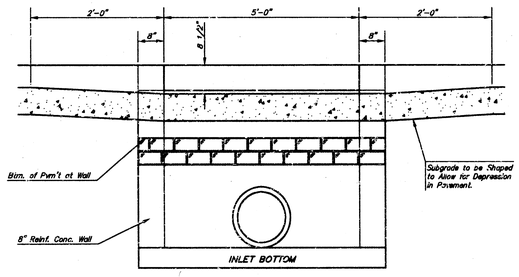
Notes:

1. Inlet Top Reinforcing shall be Spaced on 8" 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.

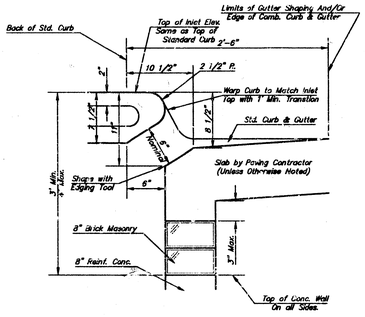


SECTION A–A

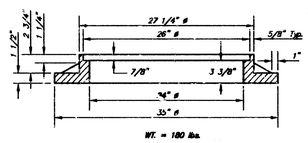




SECTION C–C



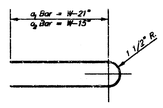
SECTION B–B



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_2 W=5'-4"	b_3 W=6'-4"	b_4 W=7'-4"	b_5 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, STANDARD
TYPE 1 INLET DETAILS
WICHITA, KANSAS

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

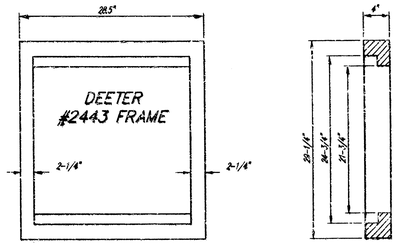
REVISED

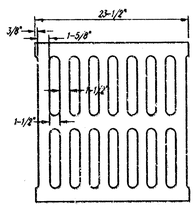
PROJECT NUMBER: 618 PP3 (607861)

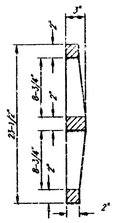
DRAWN	DESIGN	REVIEW	DATE	UTILITY	SRB JOB
JLLang			9-21-95	SCD	317E

SHEET 2
SHEETS 3

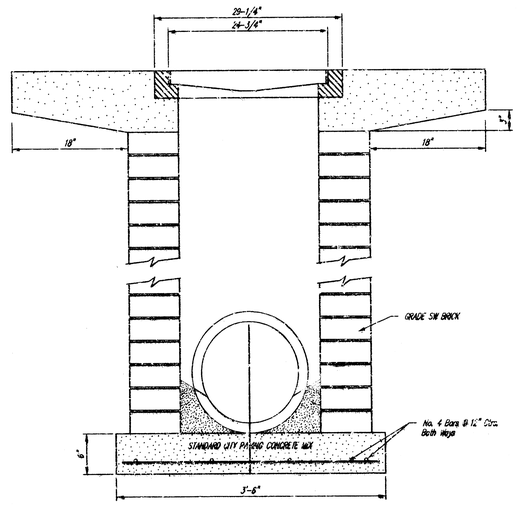
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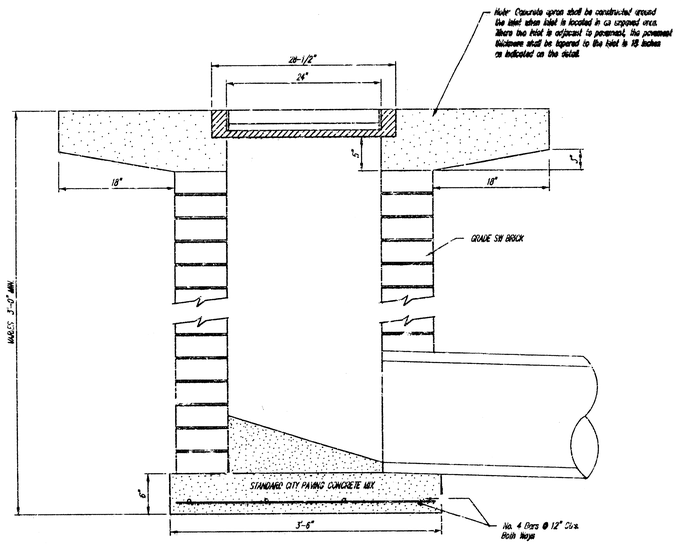






DEETER #2433 GRATE





24" x 24" Frame and Grate Detail

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DROP INLET DETAILS

M.E. Lindebak, City Engineer
City of Wichita, Kansas

Project Number	
618 PRS(607861)	3
	3