TIMBROOK 3RD. ADDITION

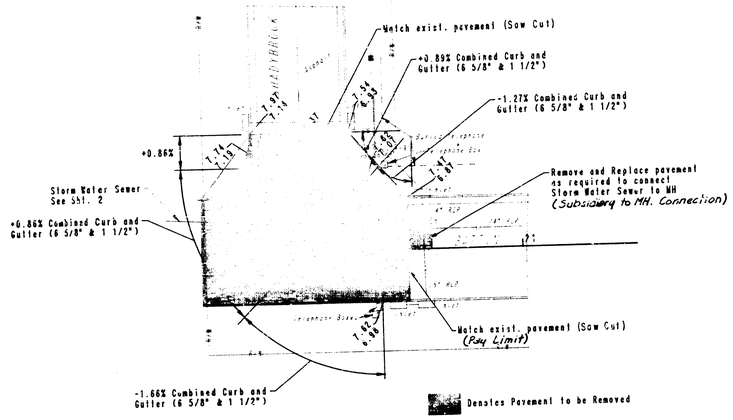
WICHITA, SEDGWICK COUNTY, KANSAS

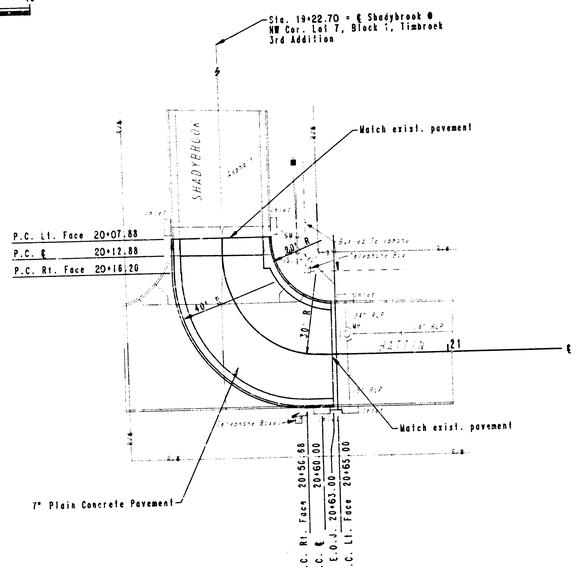
STORM WATER SEWER NO. 300

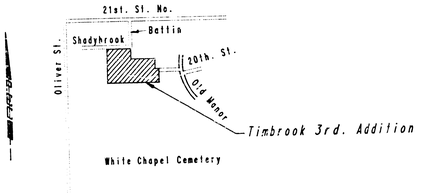
City Of Wichita Proj. No. 468-76-245-81511-000-000-001

SCALE:

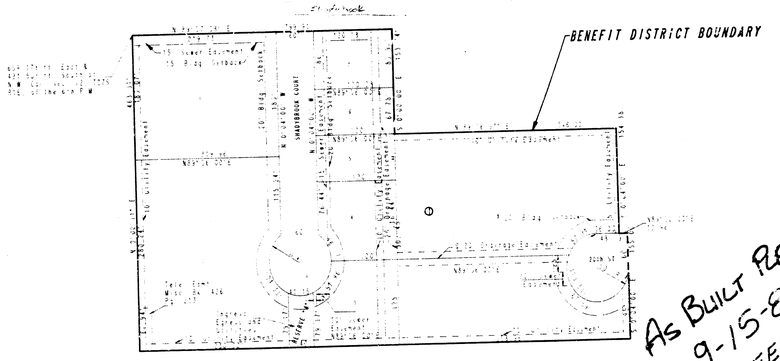
20 0 20 40







LOCATION MAP



BENEFIT DISTRICT MAP

GENERAL NOTES

1. ALL ELEVATIONS SHOWN ARE CITY OF WICHITA DATUM (USGS-1187.4 = CITY DATUM).
2. 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 OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS. ALL COST FOR THIS WORK SHALL BE SUBSIDIARY TO THE OTHER ITEMS OF WORK.
3. COORDINATION WITH PAVING. IT IS IMPERATIVE THAT THE CONTRACTOR COORDIMATE STORM WATER SEWER CONSTRUCTION WITH THE PAVING CONTRACTORS.
4. AT LEAST 48 HOURS PRIOR TO BEGINNING EXCAVATION (EXCLUDING WEEKENDS AND HOLIDAYS). THE CONTRACTOR SHALL CONTACT THE KANSAS ONE-CALL SYSTEM, A UTILITY LOCATION SERVICE, AT 1-800-344-7233 TO REQUEST THE FOLLOWING UTILITY COMPANIES TO LOCATE ANY EXISTING LINES WITHIN THE PROJECT AREA: GAS SERVICE COMPANY, KG&E., THE WICHITA WATER DEPARTMENT, ARKLA GAS CO., AND AIR CAPITAL CABLEVISION.
5. THE CONTRACTOR MUST ALSO NOTIFY THE TELEPHONE COMPANY AT (316) 571-2115 48 HOURS PRIOR TO BEGINNING EXCAVATION AND REQUEST THAT ANY LINES WITHIN THE PROJECT AREA BE FLAGGED.
6. THE BURIED UTILITIES AS LOCATED ON THE PLANS ARE APPROXIMATE LOCATIONS ONLY. IT SHOULD BE NOTED THAT OTHER LINES AND CABLES MAY EXIST WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING TRENCHING OPERATIONS TO AVOID DAMAGING THESE LINES. ANY LINES DAMAGED SHALL BE REPLACED OR REPAIRED IMMEDIATELY AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL RESTORE ALL DITCHES, SWALES, ROAD SHOULDERS, ENTRANCES, AND BANK LINES TO THEIR ORIGINAL SLOPES AND GRADES EXCEPT AS SHOWN OTHERWISE.
8. ALL SITE CLEARING AND GRUBBING SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS OF WORK.
9. THERE IS TO BE NO WORK STARTED BY THE CONTRACTOR PRIOR TO NOTIFICATION AND APPROVAL OF THE CONSTRUCTION ENGINEER OF CONSTRUCTION AND SURVEY DIVISION OF OPERATIONS AND MAINTENANCE AND ASSIGNMENT AND PRESENCE OF A DEPARTMENT INSPECTOR ON THE SITE. SHOULD CONSTRUCTION BE STARTED PRIOR TO THESE REQUIREMENTS BEING SET. THE CONTRACTOR WILL BE REQUIRED TO REOPEN THE DITCHES.
10. Saw cut to be subsidiary to other bid items of Work.

As Built Plans
9-15-86
M. Greene

No.	Revision	By	Date

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK P.E. , CITY ENGINEER

STORM WATER SEWER 300
TIMBROOK 3RD. ADDITION
C. of W. Proj. No. 468-76-245-81511-000-000-001

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by KLR	Job No. 34-86130	Sht. 1 of 5
Drawn by TDS	Date March, 1986	

1/5

KEVIN LAWRENCE BOND LICENSED 10134 KANSAS PROFESSIONAL ENGINEER

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℄ "A" Sta. 9+31.05, 5.8' Rt.=
SWS Sta. 0+00.00
Break into exist MH and install new 21" Pipe. Grout water tight with non-shrink grout. Shape MH floor to provide smooth flow.

℄ "A" Sta. 10+12.0, 10' Rt.=
SWS Sta. 0+81.06
Const. Ditch Inlet Type 1
L=4.0'; W=4.0'; H=5.23'
81.06 L.F. 21" RCP (NE)
Top El. ~~218.49~~ 218.3'

Contractor shall grade sideslopes to match existing swale.

℄ "A" Sta. 13+38.18, 10' Rt.=
SWS Sta. 4+07.24
Const. Manhole Shallow Type 'A'
326.18 L.F. 18" RCP (N)
Top El. ~~229.76~~ 228.72

℄ "A" Sta. 14+50.0, 10' Rt.=
SWS Sta. 5+19.06
Const. Ditch Inlet Type 1
L=4.0'; W=4.0'; H=4.50'
111.82 L.F. 15" RCP (N)
Top El. ~~224.60~~ 224.57

℄ "B" Sta. 1+55.0, 0' Rt.=
SWS Sta. 0+65.0
Const. Ditch Inlet Type 1
(Front Opening Only)
L=4.0'; W=4.0'; H=3.84'
65.0 L.F. 18" RCP (W)
Top El. 224.60

℄ "B" Sta. 3+74.88, 1.19' Rt.=
SWS Sta. 2+84.88
Const. Type 1A Curb Inlet
W=4'-4"; H=4.05'
218.88 L.F. 18" RCP (W)
Top El. 227.00

Baseline "A"
Baseline "B"
5:1
4:1
10:1
15:1
1/2" rebar
℄ Pipe = ℄ Swale
℄ "A" Sta. 13+38.18
℄ "B" Sta. 1+00
Identical Points
CAUTION
Ungd. Electric
Concrete Sidewalk by others

TYPICAL SWALE SECTION
20'±
5:1 typ.
Match Exist. (Typ.)
Varies

TYPICAL SWALE SECTION
14'±
10'±
Match Exist. (Typ.)
Varies

SCALE:
PLAN: LAT. & LONG. 40 0 40 80
PROFILE: HORIZ. SAME AS ABOVE
VERT.

BM: Top of Curb, North side 20th Street
First Side of Driveway 5204 E. 20th
Street North. Elev. 228.55

LINE NO. 1

Sta. 0+00
Top El. 217.101 ac
Sta. 0+81.06
Top El. 218.493
Sta. 4+07.24
Top El. 222.72
Sta. 5+19.06
Top El. 224.57
Exist. Ground (Edge of Swale)
℄ Drainage Swale
Exist. 212.52
Fin. 212.72
Exist. 213.27
Fin. 213.42
Exist. 216.72
Fin. 216.91
Exist. 218.73'
80.8' LF 21" Pipe @ 0.5% Slope
326.3' LF 18" Pipe @ 1.05% Slope
108.3 LF 15" Pipe @ 1.10% Slope

LINE NO. 2

Sta. 0+00
Top El. 222.72
Sta. 0+65
Top El. 224.67
Sta. 2+84.88
Top El. 227.20
Exist. Edge of Pavement
℄ Drainage Swale
Exist. 216.72
Fin. 220.11
Exist. 220.74
Fin. 220.84
Exist. 223.14
64.3 LF 18" Pipe @ 1.0% Slope
221.4 LF 18" Pipe @ 1.0% Slope

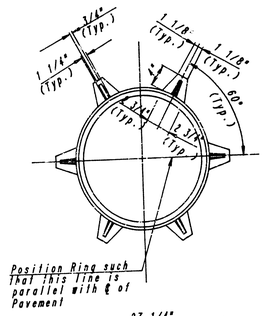
As Builts 9-15-86 Greening

LEWIS LAWRENCE REID LICENSED 13104 KANSAS PROFESSIONAL ENGINEER

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK P.E., CITY ENGINEER
TIMBROOK 3RD. ADDITION
STORM WATER SEWER NO. 300
C.O.W. Proj. No. 468-76-245-81511-000-000-001

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS
Job No. 34-86130
Date March, 1986
Designed By KLR
Drawn By TDS
Sheet 2 of 5

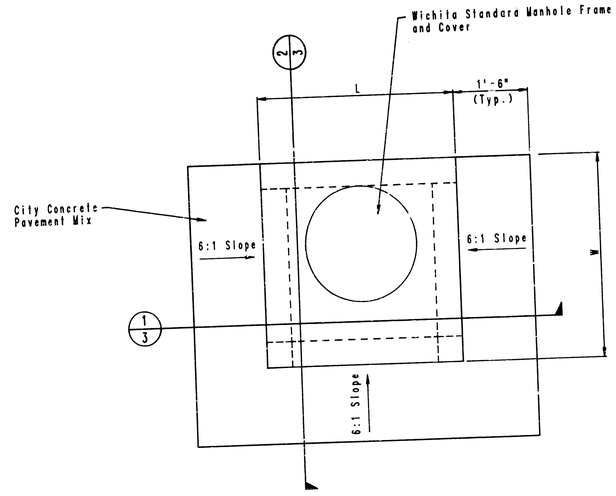
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CAST IRON INLET FRAME

Wt.=180 lbs.

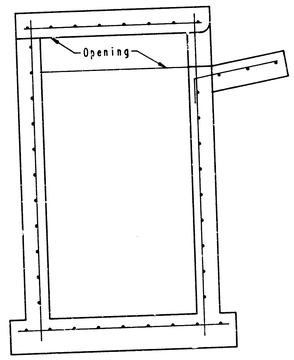
See City of Wichita Standard Manhole Frame and Cover Detail Sheet for Cover Details to be used with Inlet Frame.



DITCH INLET TYPE 1

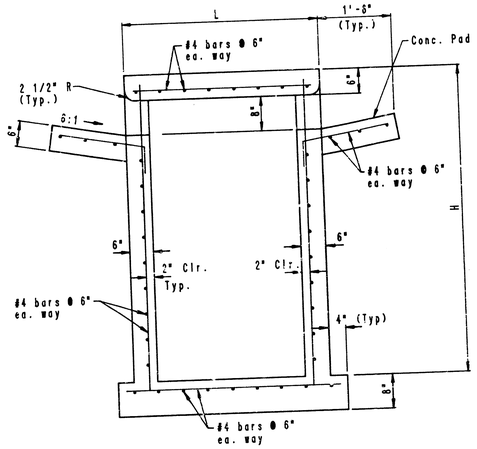
PLAN

SCALE: 3/4" = 1'-0"



2/3 SECTION

SCALE: 3/4" = 1'-0"



1/3 SECTION

SCALE: 3/4" = 1'-0"

No.	Revision	By	Date

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK P.E., CITY ENGINEER

DITCH INLET DETAIL

TIMBROOK 3RD ADDITION
C OF W PROJ. NO. 468-78-245-81511-000-000-001

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

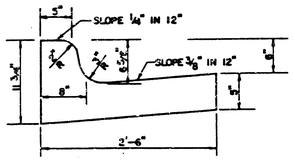
3/5

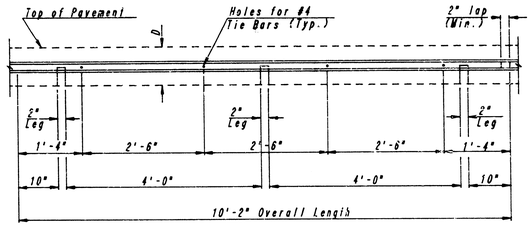
Designed by KLR	Job No. 34-86130	Sht. 3 of 5
Drawn by CAL	Date April, 1986	

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PROJECT NO.	SHEET NO.	TOTAL SHEETS
468-76-245-81511-000-000-001	5	5

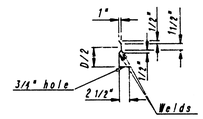
COMBINED CURB & GUTTER





TO BE USED ONLY AGAINST FORMS
SHALL NOT EXTEND THRU CONTRACTION JOINTS

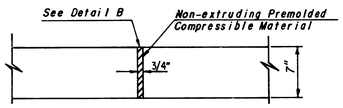
METAL STRIP FOR
LONGITUDINAL CONSTRUCTION JOINT



NOTE: SNAP-IN LEG OR OTHER APPROVED DESIGNS MAY BE USED IN LIEU OF WELDED LEG.

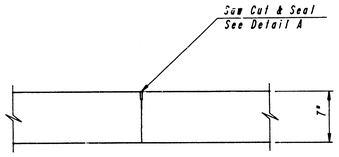
SECTION OF RECESSED
FORM LEG

METAL KEYWAY DETAILS

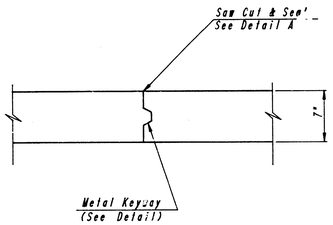


EXPANSION JOINT DETAIL
UNREINFORCED PAVEMENT
(E.J.)

EXPANSION JOINT MATERIAL SHALL EXTEND THROUGH COMBINED CURB & GUTTER SECTIONS.

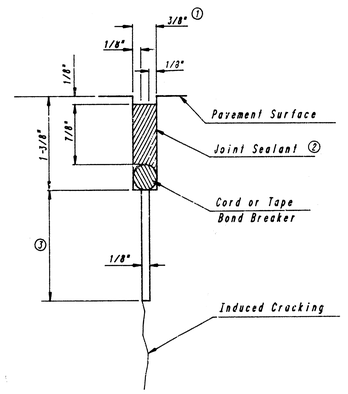


CONTRACTION JOINT DETAIL
(TRANSVERSE SECTION)
(C.J.)

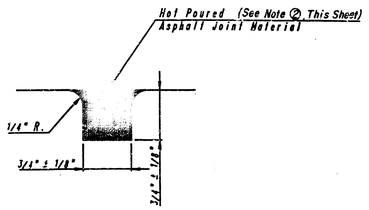


CONSTRUCTION JOINT DETAIL
(TRANSVERSE SECTION)

Construction joints shall only be used at contraction joint locations at the contractors option.



DETAIL A



DETAIL B

① To be accomplished in 2 cuts. Initial cut to be 1/8" wide.

② Hot Poured Joint Sealant shall compiy to ASTM D-3569 or ASTM D-1190.

③ Eliminate bottom of cut when metal keyway is used.



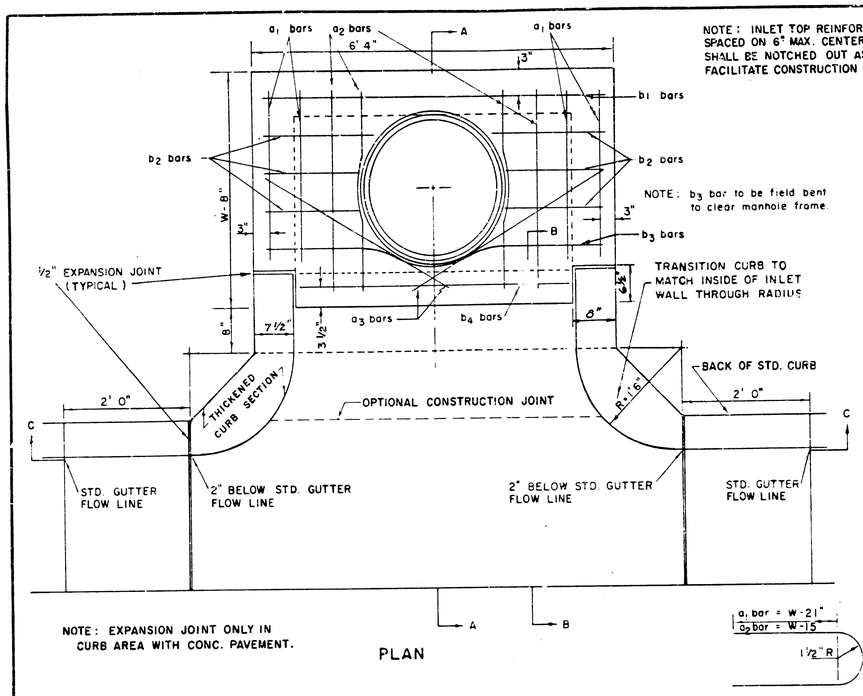
CONCRETE PAVING DETAILS
7" PLAIN CONCRETE PAVEMENT

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by		Checked by	
Drawn by		Date	Job No.

4/5

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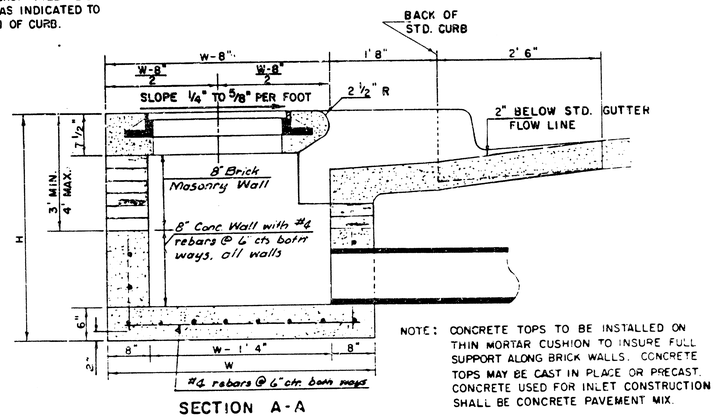
NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.

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

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

PLAN

BENDING DIAGRAM



SECTION A-A

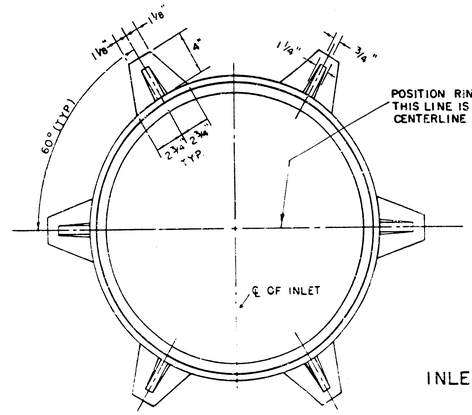
NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX.

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.

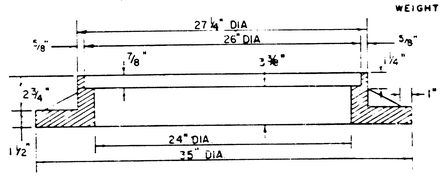
INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

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



INLET FRAME

WEIGHT = 180 LBS.



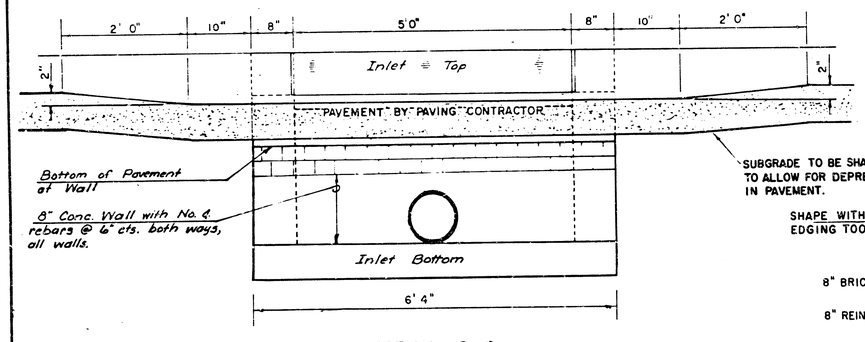
SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.

STEEL SCHEDULE

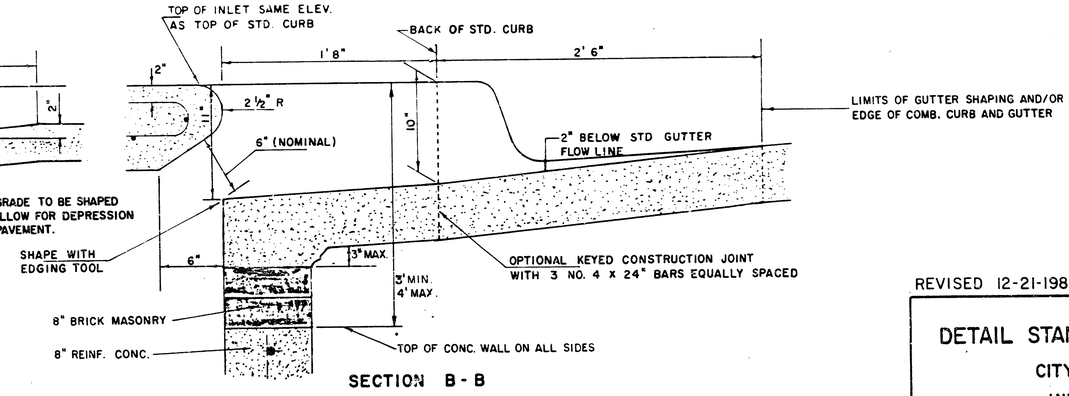
BAR		a_1	a_2	a_3*	b W=4'4"	b W=5'4"	b W=6'4"	b W=7'4"	b W=8'4"	b_2	b_3	b_4	WT. LBS
NUMBER		4	4	2	1	3	5	7	9	6	1	1	
SIZE		#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#6	
LENGTH	W=4'4"	5'7"	6'7"	4'0"	6'1"	–	–	–	–	1'9"	6'2"	4'8"	60±
	W=5'4"	7'7"	8'7"	5'0"	–	6'1"	–	–	–	1'9"	6'2"	4'8"	81±
	W=6'4"	9'7"	10'7"	6'0"	–	–	6'1"	–	–	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"x 6'4" x7 1/2"	21" & SMALLER	0.38 ±
5' 4"	4'8"x 6'4" x7 1/2"	24" & 30"	0.51 ±
6' 4"	5'8"x 6'4" x7 1/2"	36" & 42"	0.64 ±
7' 4"	6'8"x 6'4" x7 1/2"	48" & 54"	0.77±
8' 4"	7'8"x 6'4" x7 1/2"	60" & 66"	0.90±



SECTION C-C



SECTION B-B

REVISED 12-21-1984

DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS

INLET OPENING = 6" x 5' 0"

JUNE 1984

5/5

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