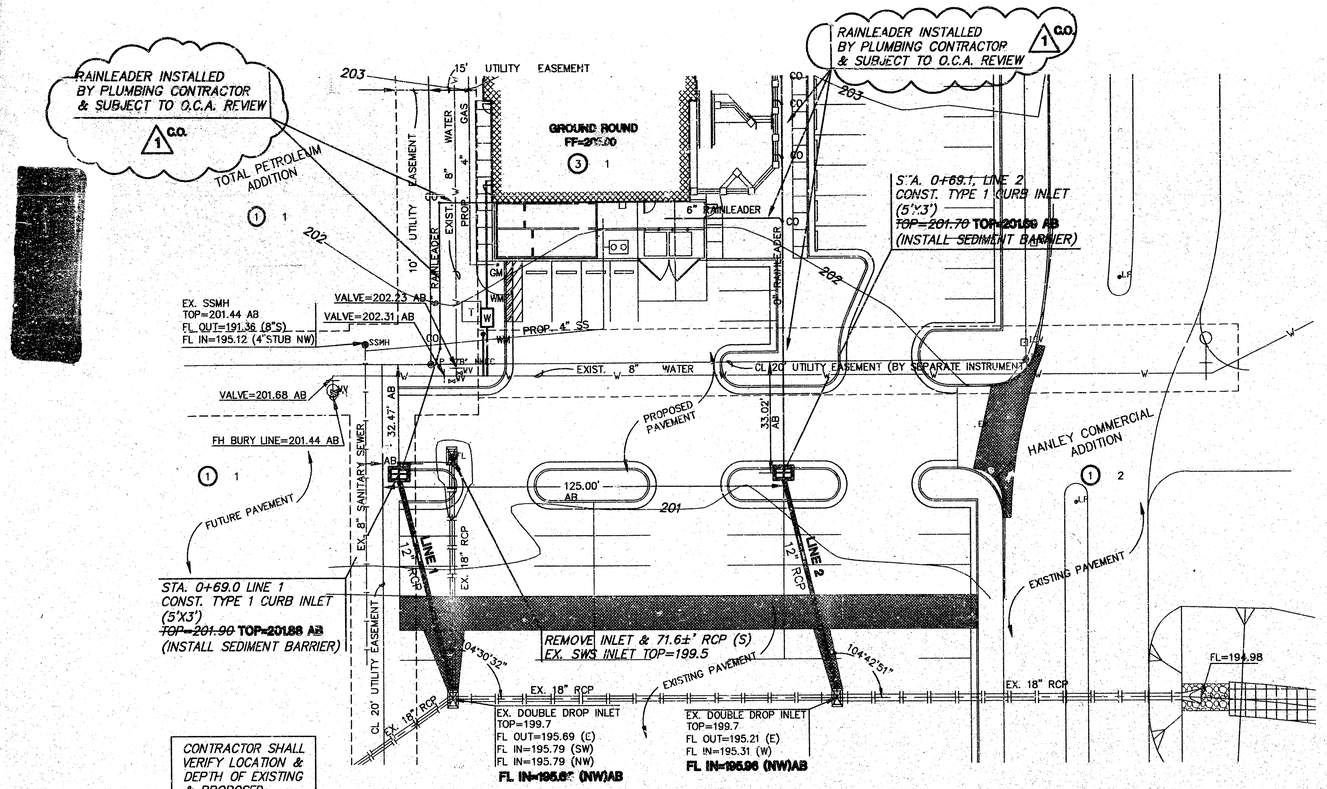
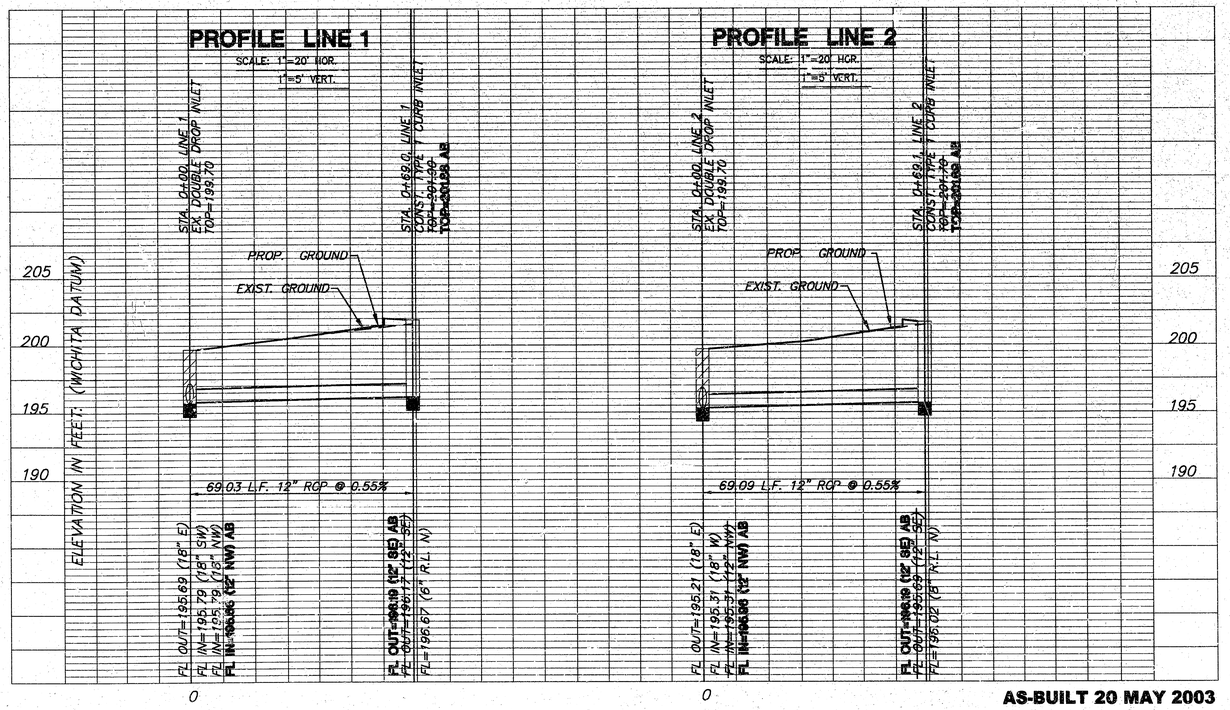


PLAN LINE 1

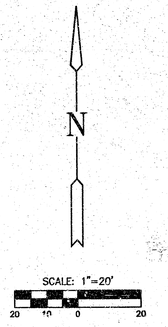
SCALE: 1"=20'

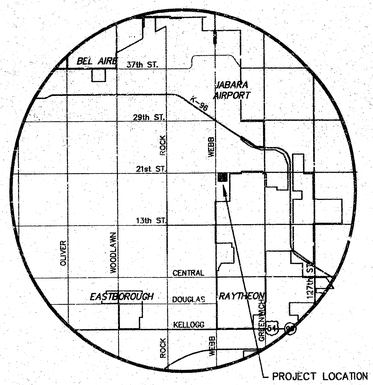
PLAN LINE 2

SCALE: 1"=20'



AS-BUILT 20 MAY 2003





LOCATION MAP

BENCHMARKS

BM #1 CITY OF WICHITA BENCH MARK DISC IN N.E. COR. CONCRETE VAULT, 400'± WEST OF WEBB RD. ON N. SIDE OF 21ST STREET NORTH. ELEV.=205.70 CITY DATUM

BM #2 "a" CUT ON TOP OF E. CURB ON WEBB RD. 115' S. OF C/L 21ST STREET NORTH. ELEV.=202.85 CITY DATUM

BM #3 "a" CUT ON N.E. COR. HEADWALL OF RCB 853' S. & 50' E. OF SECTION COR. ELEV.=198.03 CITY DATUM

LEGEND:

- CO — CLEANOUT
- IRR — IRRIGATION
- W — WATER
- RL — RAINLEADER
- PAVEMENT REMOVAL

1 C.O. **REVISED: 12/11/02**

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA
STORM SEWERS URH 12/18/02

NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE CONTRACTOR. 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 THE PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

JEFFREY T. CARTWRIGHT LICENSED 14371 5-23-03 KANSAS PROFESSIONAL ENGINEER

PRIVATE STORM WATER SEWER TO SERVE LOT 3, BLOCK 1, HANLEY COMMERCIAL ADD. 1299PPS (607861)

MKEC ENGINEERING CONSULTANTS
411 N. WEBB ROAD
WICHITA, KS. 67206
316 - 684 - 9600

wdm architects
Wilson Darnell Mann P.A.
105 N. Washington Wichita, Kansas 67202
ph 316.262.4700 fx 316.262.0002
www.wdmdesign.com

Ground Round of Kansas
Prototype #4600

21st & Webb
Wichita, Kansas

PRINTS ISSUED
November 4, 2002
Dec. 13, 2002 - C.O. #1 - OCI/franchise

WDM No. 02140 drawn: DAC checked: JTC

STORM WATER SEWER

K:\WEPS_2002\02264-GROUND ROUND\CIVIL\SWS\02264d1.DWG

CU1.1

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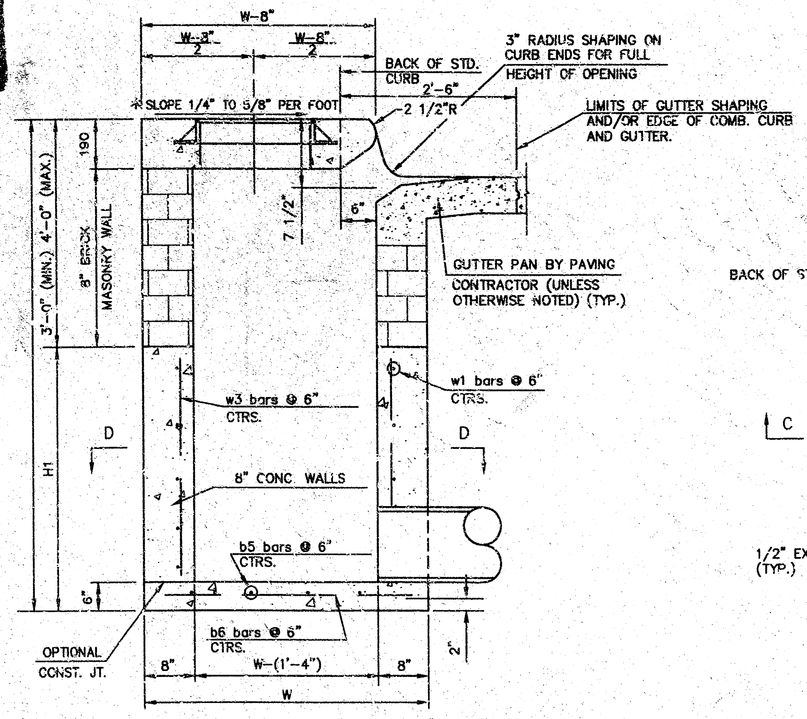
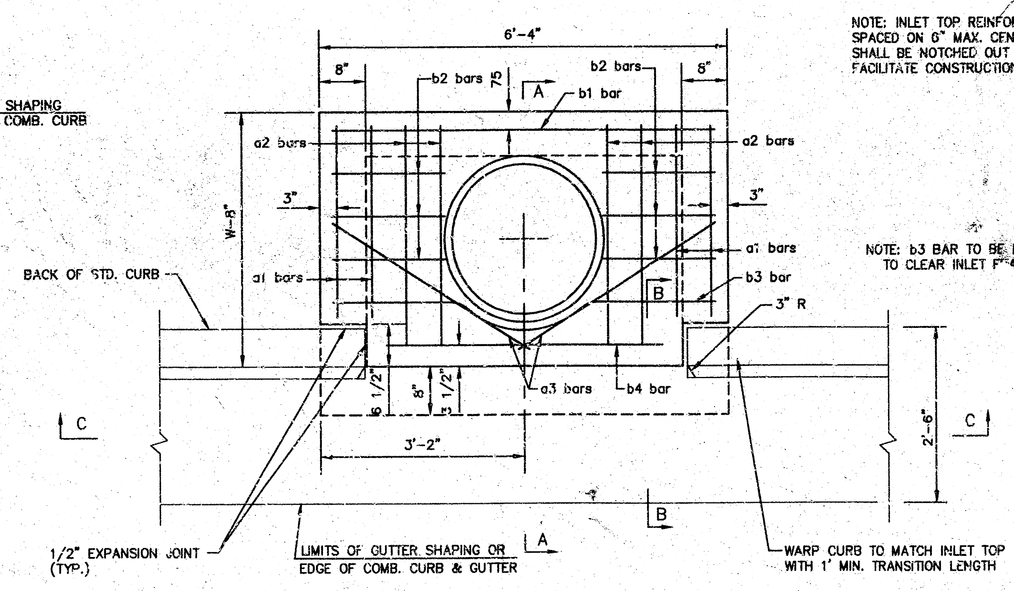


SECTION A-A

* SLOPE OF INLET TOP TO MATCH SIDEWALK (2% MAX.) OR PARKING SLOPE WITHIN THE LIMITS INDICATED

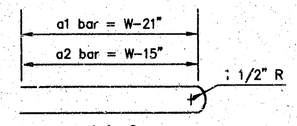


NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.

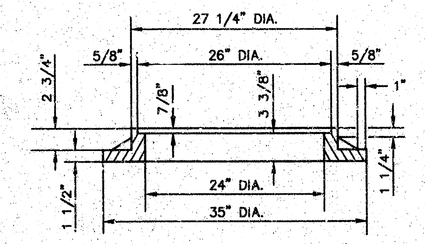
NOTE: b3 BAR TO BE FIELD BENT TO CLEAR INLET FRAME.

PLAN

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.



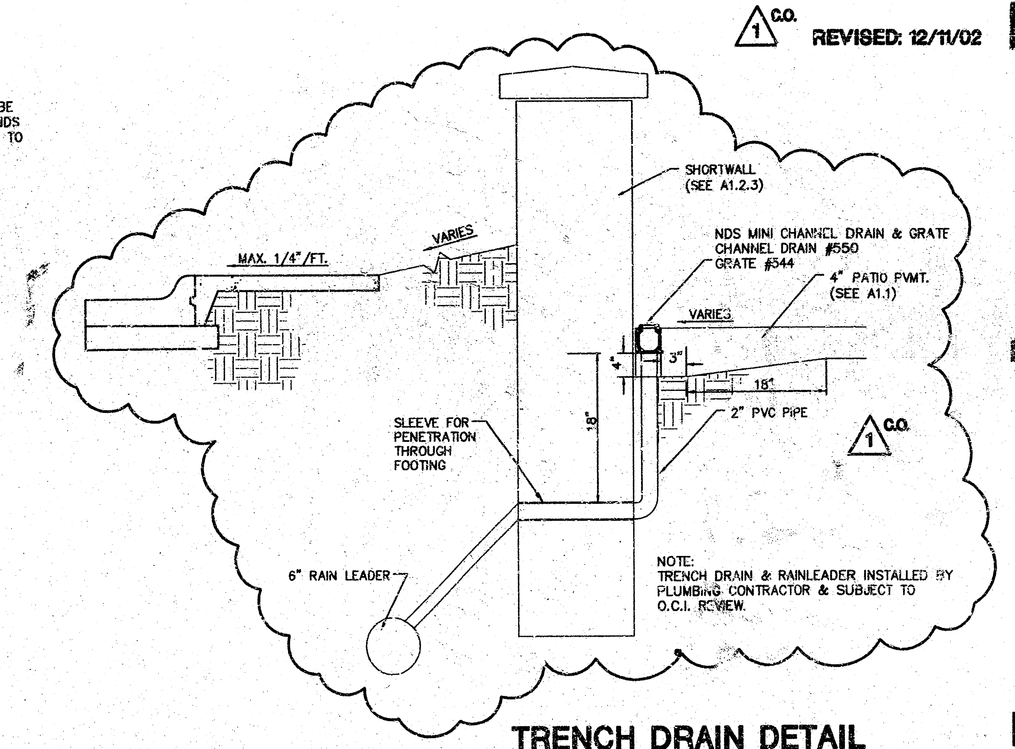
BENDING DIAGRAM



INLET FRAME

WT.=180 LBS

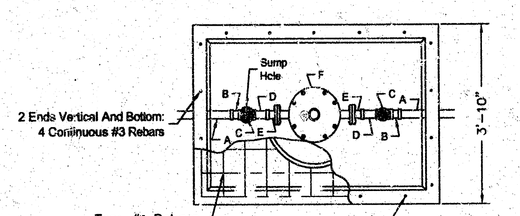
SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.

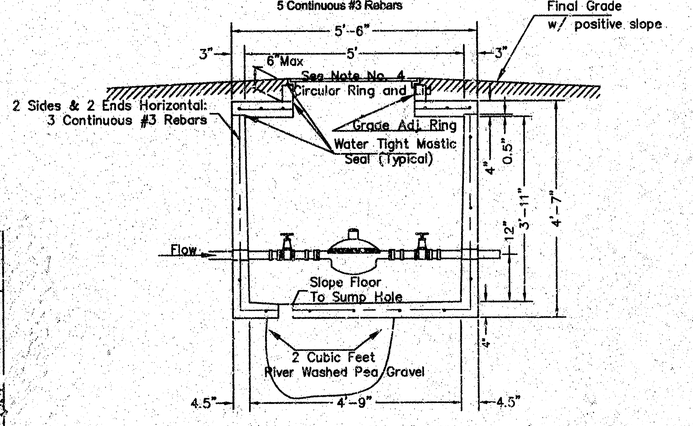


TRENCH DRAIN DETAIL

SCALE: NONE

C.O. 1 REVISED: 12/11/02



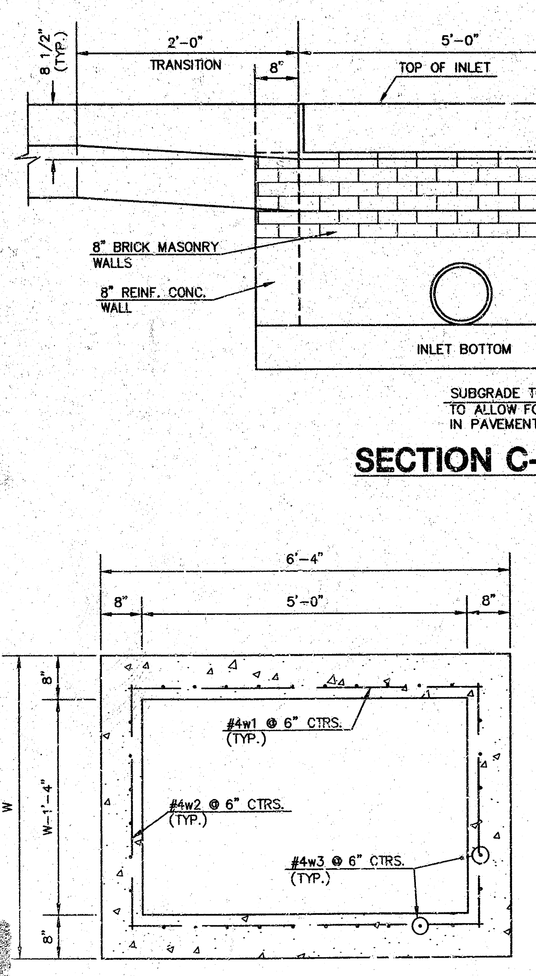


2"DS

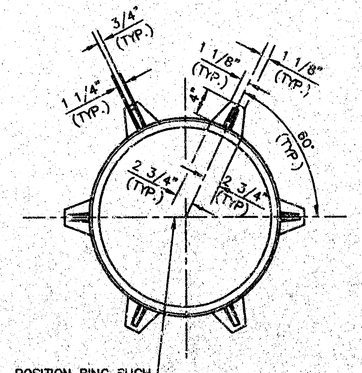
A – 2" PVC or Copper (to be extended completely through vault to ensure proper alignment)*
B – 2" F PVC to M Iron or 2" F Copper to M Iron**
C – 2" Bronze IPT Gate Valve, Wheel Operated**
D – 2" x 4" or 2" x 6" Brass Nipple**
E – Lok-Pak Meter Couplings**
F – 2" Meter**

* = Contractor Installed
** = Installed By Wichita Water & Sewer

2" DOMESTIC WATER METER VAULT



SECTION C-C



SECTION D-D

STEEL SCHEDULE

		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	4	5'-7"	4	2 310	4	2 920	4	3 530	4	4 140
a2	#4	4	6'-7"	4	2 615	4	3 225	4	3 835	4	4 445
a3	#4	2	4'-0"	2	1 525	2	1 830	2	2 135	2	2 440
b1	#4	1	6'-1"	3	1 855	5	1 855	7	1 855	9	1 855
b2	#4	6	1'-9"	6	1'-9"	6	1'-9"	6	1'-9"	6	1'-9"
b3	#4	1	6'-2"	1	6'-2"	1	6'-2"	1	6'-2"	1	6'-2"
b4	#6	1	4'-8"	1	4'-8"	1	4'-8"	1	4'-8"	1	4'-8"
b5	#4	7	5'-4"	9	5'-4"	11	5'-4"	13	5'-4"	15	5'-4"
b6	#4	11	3'-4"	11	4'-4"	11	5'-4"	11	6'-4"	11	7'-4"

STEEL SCHEDULE

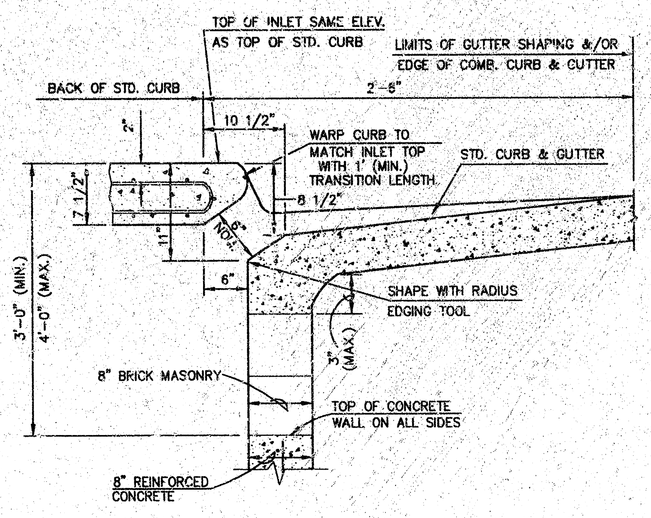
		W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
MARK	SIZE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
w1	#4	①	5'-4"	①	5'-4"	①	5'-4"	①	5'-4"	①	5'-4"
w2	#4	①	3'-4"	①	4'-4"	①	5'-4"	①	6'-4"	①	7'-4"
w3	#4	②	③	②	③	②	③	②	③	②	③

NOTE: a3 BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER.

① $2\left(\frac{(H1-8")}{6"}+1\right)$

② $22+2\left(\frac{(W-1'-4")}{6}+1\right)$

③ (H1-9")



SECTION B-B

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

GENERAL NOTES

1. CONCRETE SHALL BE C.O.W. STANDARD PAVING MIX. ALL EXPOSED EDGES SHALL BE FINISHED WITH AN EDGING TOOL. REINFORCING BARS SHALL BE FIELD BENT OR CUT TO CLEAR PIPES. ALL BARS ARE #4 BARS AT 6" SPACING AND SHALL HAVE A MINIMUM CLEARANCE OF 1 1/2" UNLESS OTHERWISE NOTED. FLOORS OF INLET SHALL BE SHAPED WITH A SACK SAND MIX CONCRETE TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTFALL PIPE(S). THE CONTRACTOR SHALL HAVE THE OPTION TO CONSTRUCT 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN H=7'-0" OR LESS AND W=6'-4" OR LESS.

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

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Ground Round of Kansas Prototype #4600

21st & Webb
Wichita, Kansas

PRINTS ISSUED
November 4, 2002
December 13, 2002
C.O. #1 - O.C.I. / FRANCHISE

WDM No. 02140
drawn: dac
checked: jtc

UTILITY DETAIL SHEET

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