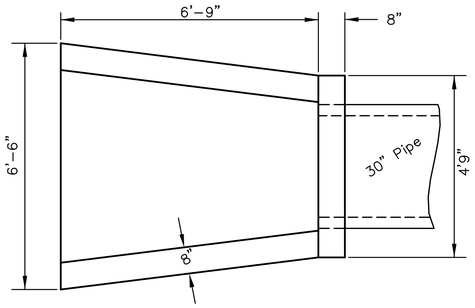
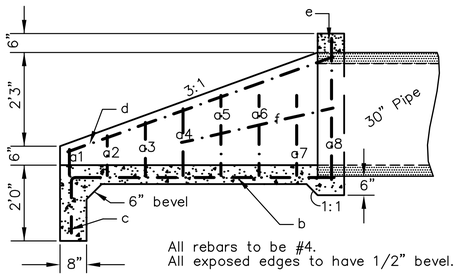


PLAN



All rebars to be #4.
All exposed edges to have 1/2" bevel.

SECTION

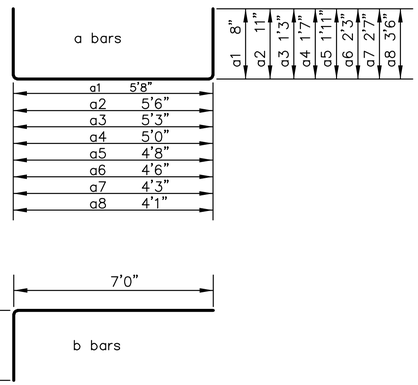
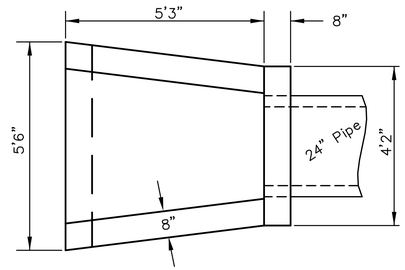


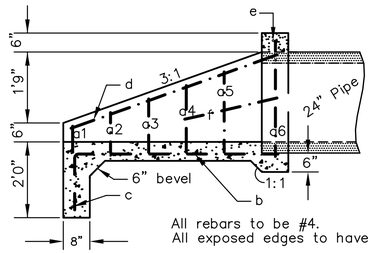
TABLE OF QUANTITIES				
BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a1	1	7'0"	⌊⌋	4.68
a2	1	7'4"	⌊⌋	4.90
a3	1	7'9"	⌊⌋	5.18
a4	1	8'2"	⌊⌋	5.46
a5	1	8'6"	⌊⌋	5.68
a6	1	9'0"	⌊⌋	6.01
a7	1	9'5"	⌊⌋	6.29
a8	1	11'1"	⌊⌋	7.40
b	7	8'6"	⌊_⌋	35.07
c	1	6'0"	——	4.01
d	2	7'6"	——	10.02
e	1	4'5"	——	2.95
f	2	4'3"	——	5.68
Total Rebar, lbs				103.33
Concrete, C.Y.				2.01

All rebars to be #4.

HEADWALL FOR 30" PIPE

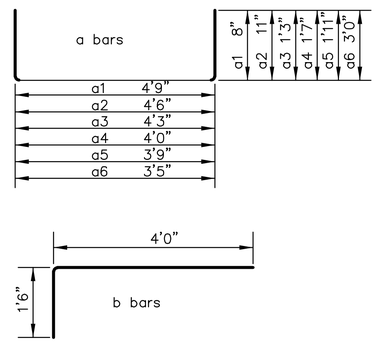


PLAN



All rebars to be #4.
All exposed edges to have 1/2" bevel.

SECTION



Note: Each headwall shall be constructed with a flap gate of the appropriate size attached to headwall

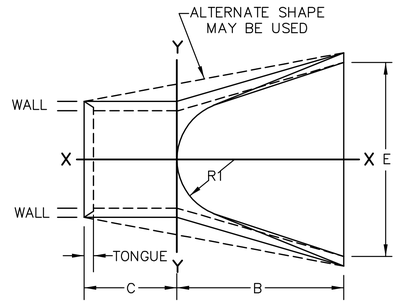
TABLE OF QUANTITIES				
BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a1	1	6'1"	⌊⌋	4.06
a2	1	6'4"	⌊⌋	4.23
a3	1	6'9"	⌊⌋	4.51
a4	1	7'2"	⌊⌋	4.79
a5	1	7'7"	⌊⌋	5.07
a6	1	9'5"	⌊⌋	6.29
b	6	6'11"	⌊_⌋	27.72
c	1	5'0"	——	3.37
d	2	5'10"	——	7.79
e	1	3'10"	——	2.56
f	2	2'9"	——	3.67
Total Rebar, lbs				74.03
Concrete, C.Y.				1.40

All rebars to be #4.

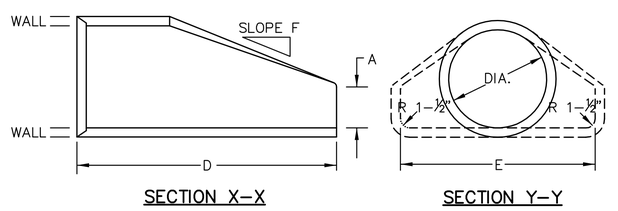
HEADWALL FOR 24" PIPE

DIAM.	A	B	C	D	E	F	R1	TONGUE	WALL
12"	4"	2' 0"	4' 0–7/8"	6' 0–7/8"	2' 0"	3:1	9"	1–1/2"	2"
15"	6"	2' 3"	3' 10"	6' 1"	2' 6"	3:1	11"	2"	2 1/4"
18"	9"	2' 3"	3' 10"	6' 1"	3' 0"	3:1	12"	2–1/2"	2 1/2"
24"	9–1/2"	3' 7–1/2"	2' 6"	6' 1–1/2"	4' 0"	3:1	14"	2–1/2"	3"
30"	1' 0"	4' 6"	1' 7–3/4"	6' 1–3/4"	5' 0"	3:1	15"	3"	3–1/2"
36"	1' 3"	5' 3"	1' 10–3/4"	8' 1–3/4"	6' 0"	3:1	20"	3–1/2"	4"
42"	1' 9"	5' 3"	2'–11"	8' 2"	6' 6"	3:1	22"	3–3/4"	4–1/2"
48"	2' 0"	6' 0"	2' 2"	8' 2"	7' 0"	3:1	22"	4–1/4"	5"
54"	2' 3"	5' 5"	2' 11"	8' 4"	7' 6"	3:1	24"	4–3/4"	5–1/2"
60"	2' 6"	5' 0"	3' 3"	8' 3"	8' 0"	2.4:1	24"	5"	6"
66"	2' 0"	6' 6"	1' 9"	8' 3"	8' 6"	2:1	24"	5–1/2"	7"
72"	2' 0"	6' 6"	1' 9"	8' 3"	9' 0"	2:1	24"	6"	7–1/2"

TONGUE LENGTHS BASED ON QUINN STANDARD

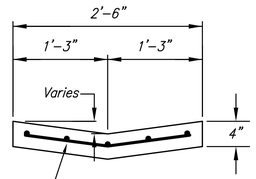


PIPE PLAN



SECTION X–X SECTION Y–Y

REINFORCED CONCRETE PIPE
END SECTIONS



Welded wire reinforcement
6x6 – W1.4xW1.4

At ends, conform to the shape of the existing gutter and to the proposed drop inlet.

CONCRETE GUTTER

MARK	DESCRIPTION	DATE	APPR.

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

LEVEE 'S'
WICHITA-VALLEY CENTER LOCAL FLOOD PROTECTION PROJECT
WICHITA, KANSAS

PREPARED FOR
THE CITY OF WICHITA, KANSAS
455 N. MAIN STREET
WICHITA, KANSAS 67202

DESIGNED BY: JAY R. ANGLEMYER		DATE: 09/Oct/12
DWN BY: STAFF	CKD BY: STAFF	APP BY: JRA
FILE NAME: J:\Civil\07866\dwg\Drainage\07866_S_DR STR DTLS		
MKEC PROJ. NO. 0701040866		

LEVEE S
DRAINAGE STRUCTURE DETAILS
D-2.02
SHEET 31 OF 64