

MAPLE AT I 235 PUMPING STATION REVISION - 30" BYPASS LINE

PROJ. NO. 468 76 245 81103 000 000 001

CITY OF WICHITA

DEPARTMENT OF ENGINEERING

R. W. BRUGGEMAN DIRECTOR OF ENGINEERING/CITY ENGINEER

DATE: _____

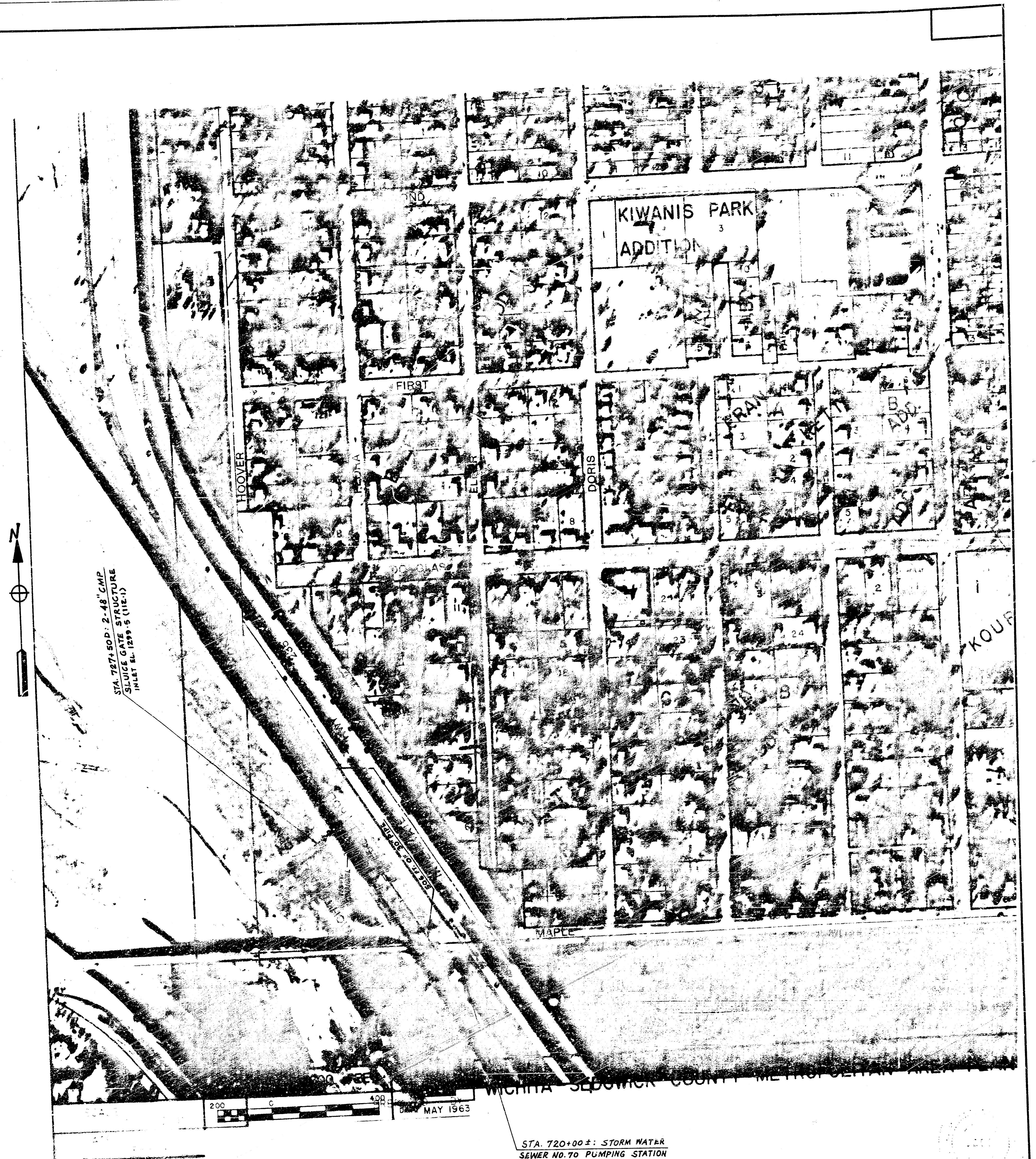
GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WORK WITH WATER, ELECTRIC, TRAFFIC CONTROL, GAS AND OTHER UTILITY COMPANIES SO MINIMUM INCONVENIENCE WILL OCCUR TO GENERAL PUBLIC. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR RELOCATION OF EXISTING SERVICES.
2. CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC SIGNS AND MARKERS ON MAPLE AVENUE WHILE INSTALLING THE PIPE UNDER MAPLE AVENUE. IT IS RECOMMENDED TO KEEP AT LEAST ONE LANE OPEN DURING CONSTRUCTION UNDER MAPLE AVENUE.
3. FIELD ENGINEER SHALL DETERMINE ALL REMOVAL LIMITS OF ASPHALT, ALL REMOVAL LIMITS SHALL BE BY SAW JOINT.
4. CONCRETE HEADWALL STRUCTURE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE BIDDING LUMP SUM AMOUNT. THIS PRICE SHALL INCLUDE ALL MATERIALS, EQUIPMENT (INCLUDING FLAP GATE SEAT, ETC.) LABOR, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.
5. HEADWALL STRUCTURE SHALL BE CONSTRUCTED SO THAT THE TOP OF THE HEADWALL AT STATION 1+20 WILL ALIGN WITH THE SLOPE OF THE LEVEE.
6. CONTRACTOR SHALL TEMPORARILY REPLACE FLOOD CONTROL FENCE AT THE END OF EACH WORKING DAY UNTIL SUCH TIME THAT FENCE IS PERMANENTLY REPLACED.
7. CONTRACTOR SHALL SEED, FERTILIZE AND MULCH ALL DISTURBED GRASSED AREAS WITHIN FLOOD CONTROL RIGHT-OF-WAY. SEED SHALL BE A MINIMUM OF ONE HUNDRED (100) POUNDS OF BROME WELLS HEADS PER ACRE.
8. FIELD ENGINEER TO CROSS-SECTION CHANNEL EXCAVATION BEFORE AND AFTER CONSTRUCTION.

GENERAL NOTE

CONTRACTOR SHALL HAVE THE OPTION OF EITHER MAINTAINING TWO (2) LANES OF TRAFFIC OR CLOSING MAPLE. IF MAPLE IS CLOSED, IT CAN BE CLOSED NO LONGER THAN FORTY-EIGHT (48) HOURS AND EAST-WEST ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.

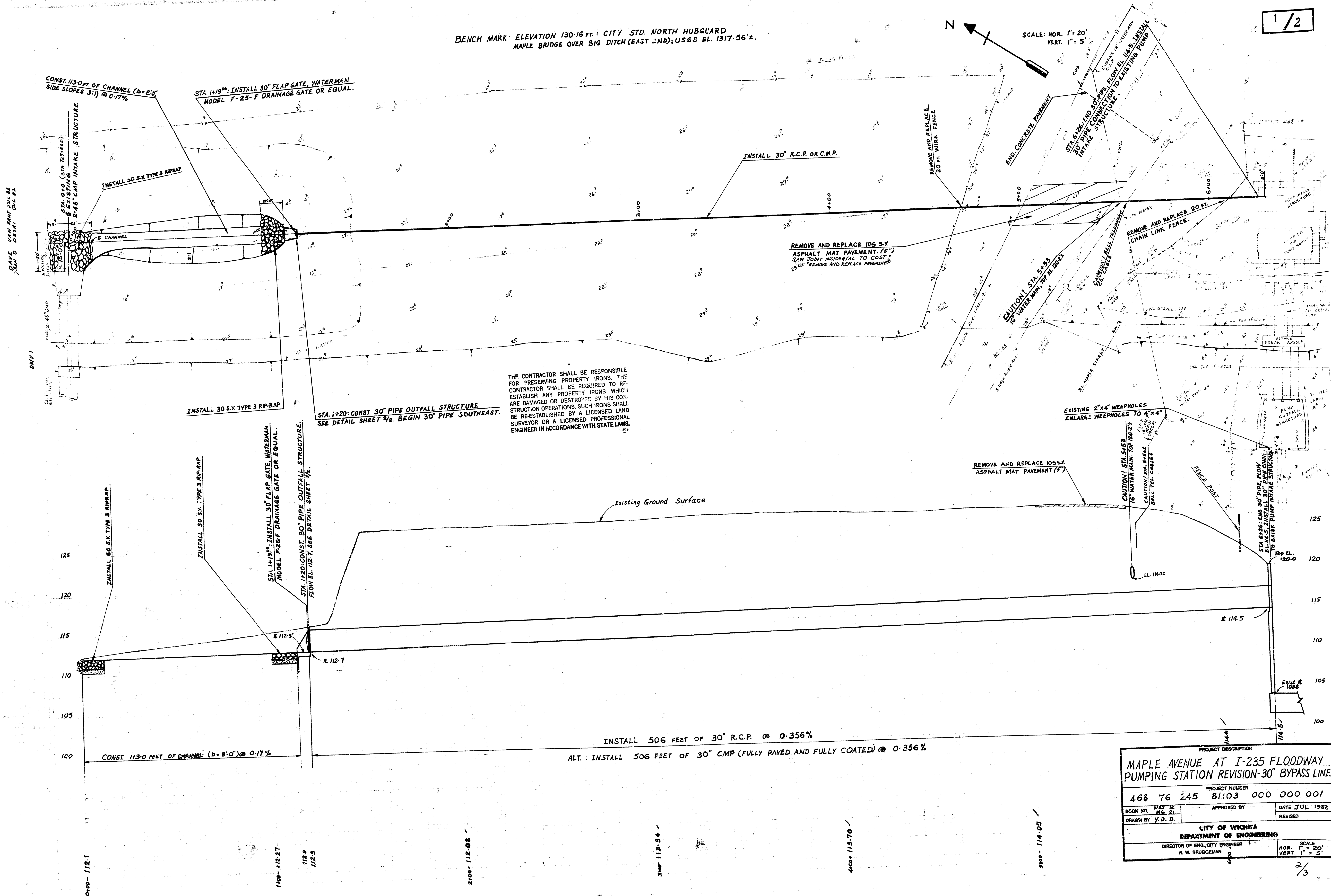
CONTRACTOR SHALL SEED, FERTILIZE, AND MULCH ALL DISTURBED GRASSED AREAS WITHIN FLOOD CONTROL RIGHT-OF-WAY. SEED SHALL BE A MINIMUM OF 200 LBS. PER ACRE, AND SHALL CONSIST OF 50% BROME AND 50% K-31 FESCUE. SEED SHALL BE IN COMPLIANCE WITH CITY OF WICHITA SPECIFICATIONS.



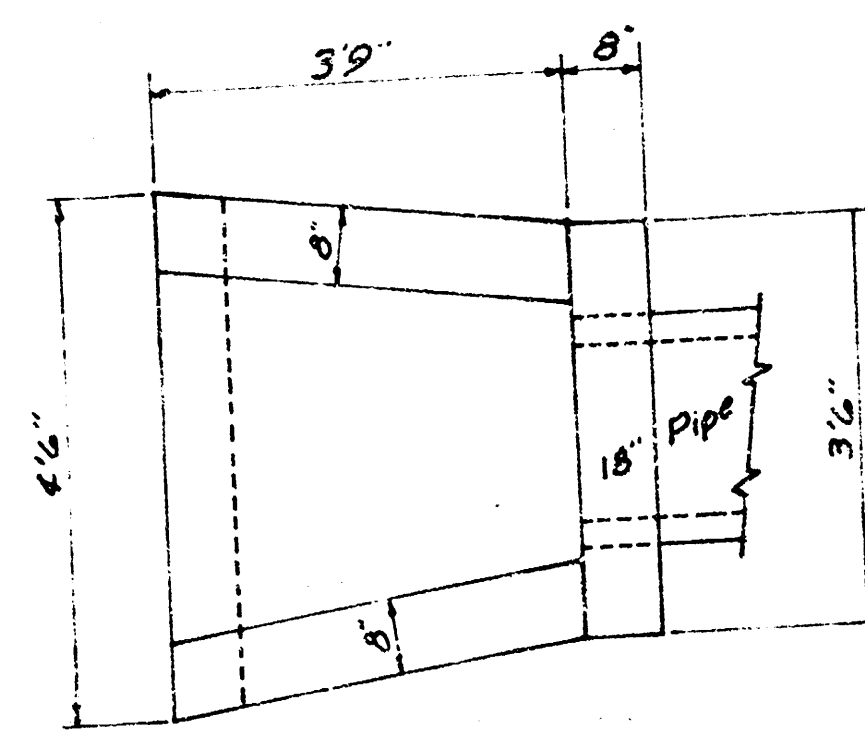
BENCH MARK: ELEVATION 130.16 FT.: CITY STD. NORTH HUB&GUARD
MAPLE BRIDGE OVER BIG DITCH (EAST END); USGS EL. 1317.56'.

SCALE: HOR. 1" = 20'
VERT. 1" = 5'

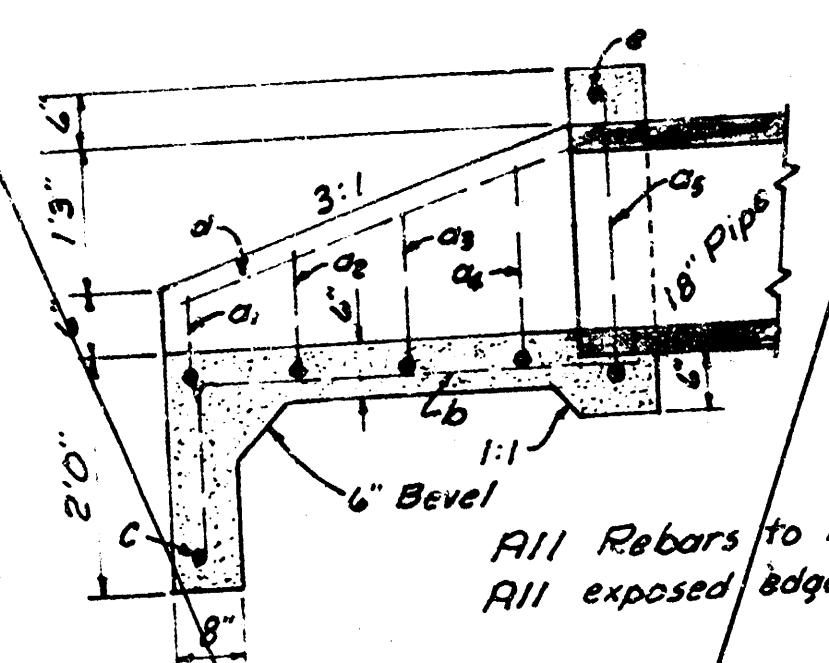
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PROJECT DESCRIPTION			
MAPLE AVENUE AT I-235 FLOODWAY PUMPING STATION REVISION-30" BYPASS LINE			
PROJECT NUMBER			
468 76 245 81103 000 000 001			
BOOK NO.	W.S. 12	APPROVED BY	DATE JUL 1982
DRAWN BY	Y.D.D.	REVISOR	
CITY OF WICHITA			
DEPARTMENT OF ENGINEERING			
DIRECTOR OF ENG./CITY ENGINEER			
R.W. BRUGGEMAN			
HOR. SCALE		VERT. SCALE	
1" = 20'		1" = 5'	



PLAN
Scale: 1/2" = 1'0"



SECTION
Scale: 1/2" = 1'0"

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

a bars	b
a ₁ 3'8"	a ₁ 1'1"
a ₂ 3'5"	a ₂ 1'3"
a ₃ 3'0"	a ₃ 1'7"
a ₄ 2'1"	a ₄ 1'7"
a ₅ 2'9"	a ₅ 2'3"

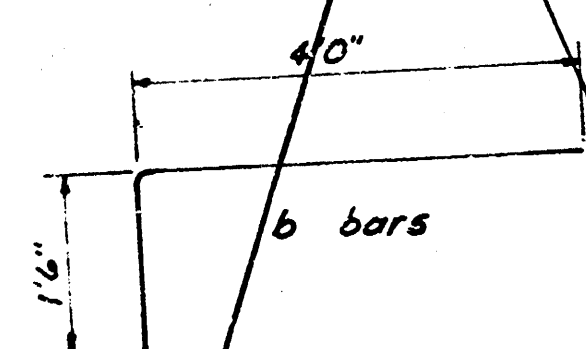
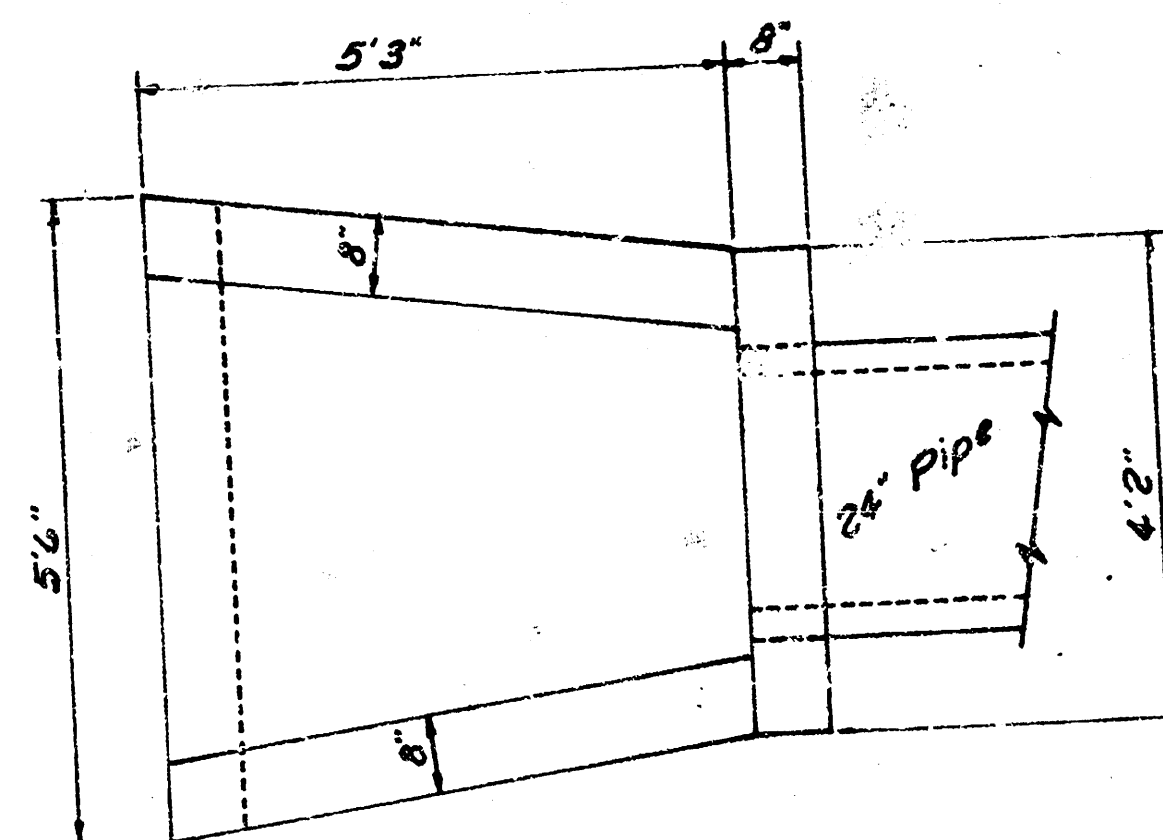
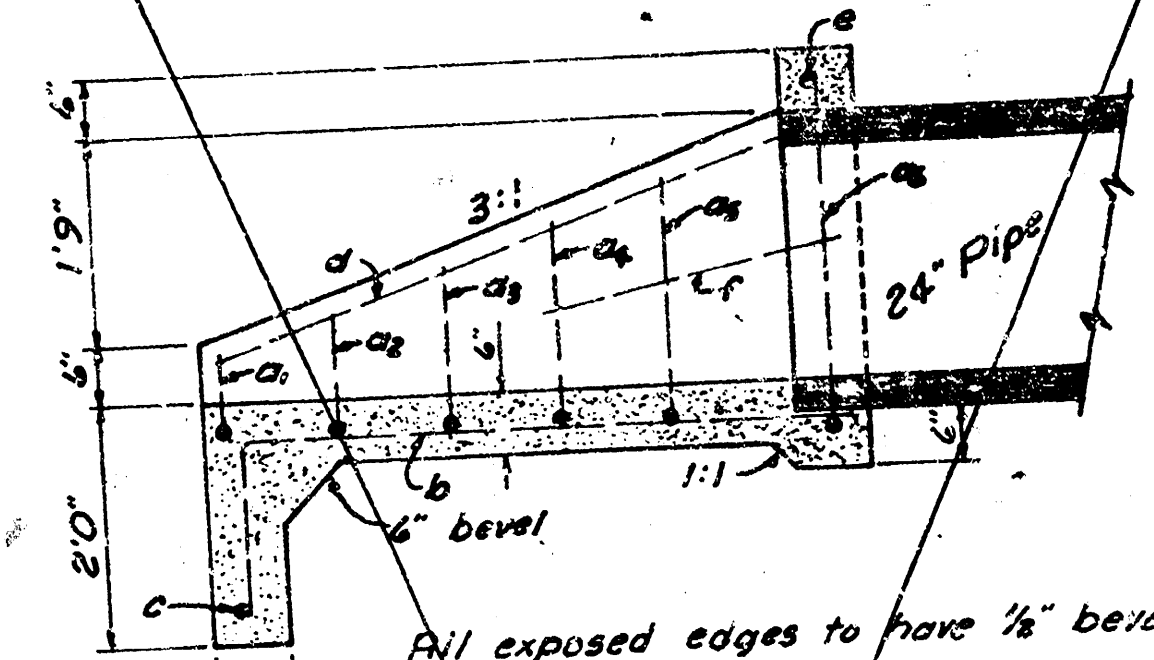


TABLE OF QUANTITIES				
BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a ₁	1	5'0"		3.34
a ₂	1	5'3"		3.51
a ₃	1	5'8"		3.79
a ₄	1	4'1"		4.06
a ₅	1	7'2"		4.79
b	5	5'6"		18.97
c	1	4'0"		2.67
d	2	4'0"		5.34
e	1	3'2"		2.12
Total Rebar, lbs				47.99
Concrete, C.Y.				0.91

HEADWALL FOR 18" PIPE



PLAN
Scale: 1/2" = 1'0"



SECTION
Scale: 1/2" = 1'0"

All exposed edges to have 1/2" bevel.

a bars	b
a ₁ 4'4"	a ₁ 8"
a ₂ 4'6"	a ₂ 1'1"
a ₃ 4'3"	a ₃ 1'3"
a ₄ 6'0"	a ₄ 1'7"
a ₅ 3'9"	a ₅ 1'11"
a ₆ 3'5"	a ₆ 3'0"

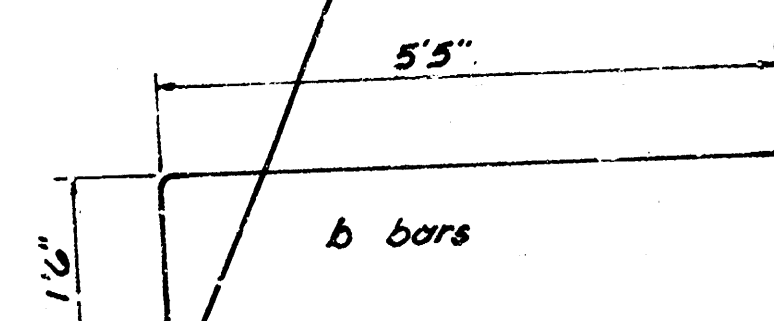
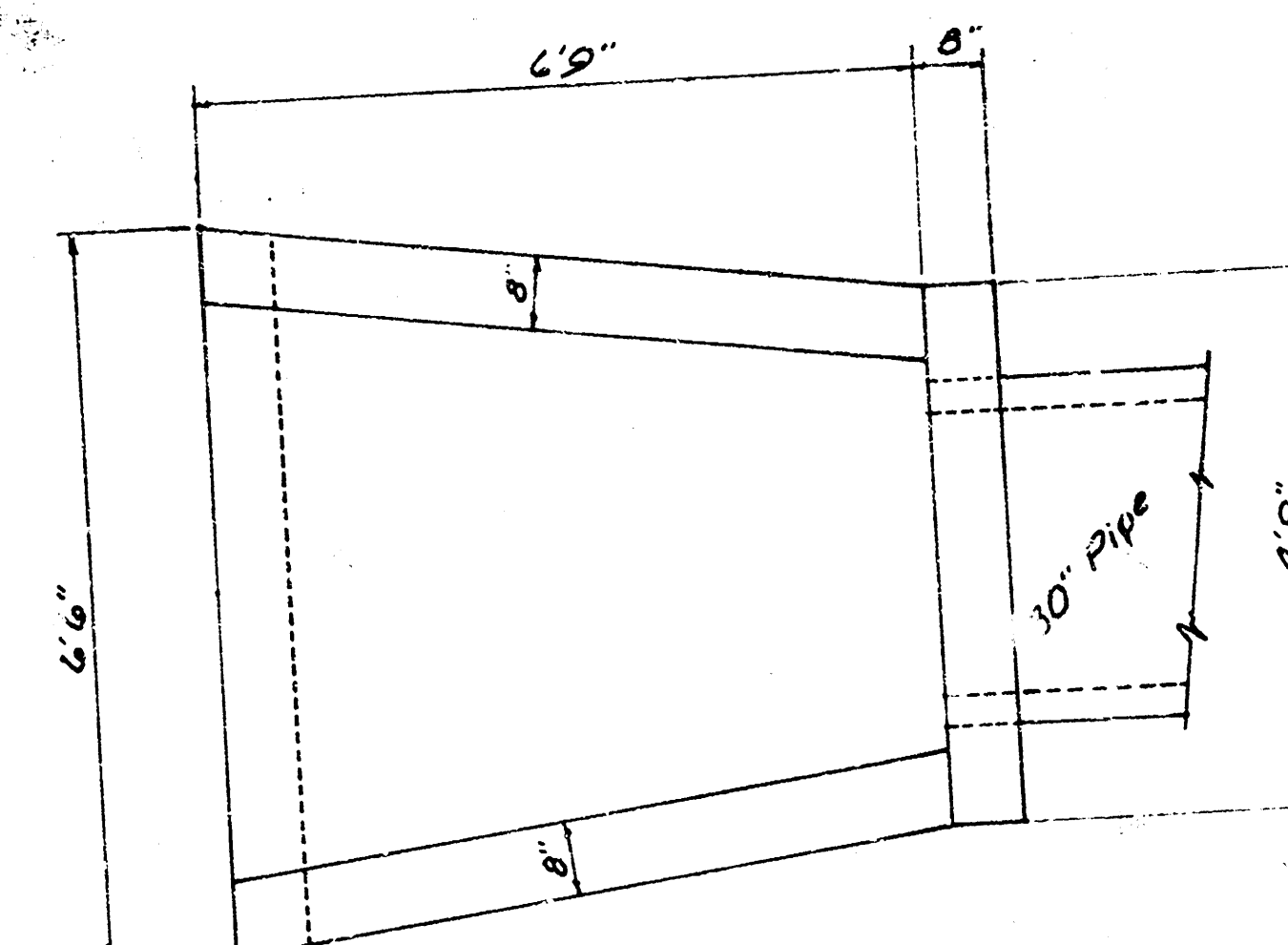
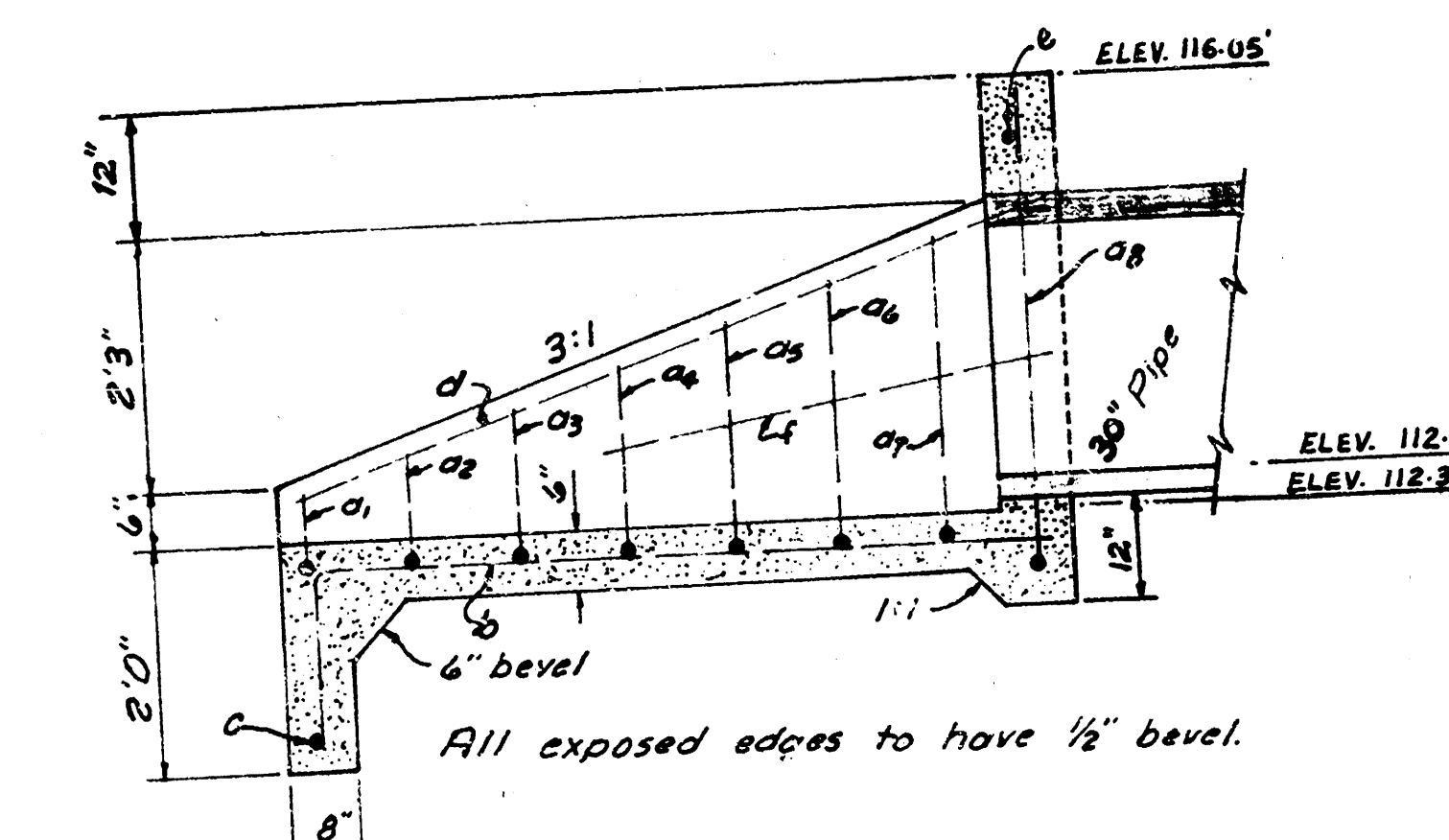


TABLE OF QUANTITIES				
BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a ₁	1	6'1"		4.06
a ₂	1	6'4"		4.23
a ₃	1	6'9"		4.51
a ₄	1	7'2"		4.79
a ₅	1	7'7"		5.07
a ₆	1	9'5"		6.29
b	6	4'11"		27.72
c	1	5'0"		3.37
d	2	5'10"		7.79
e	1	3'10"		3.56
f	2	3'2"		3.47
Total Rebar, lbs				74.03
Concrete, C.Y.				1.40

HEADWALL FOR 24" PIPE



PLAN
Scale: 1/2" = 1'0"



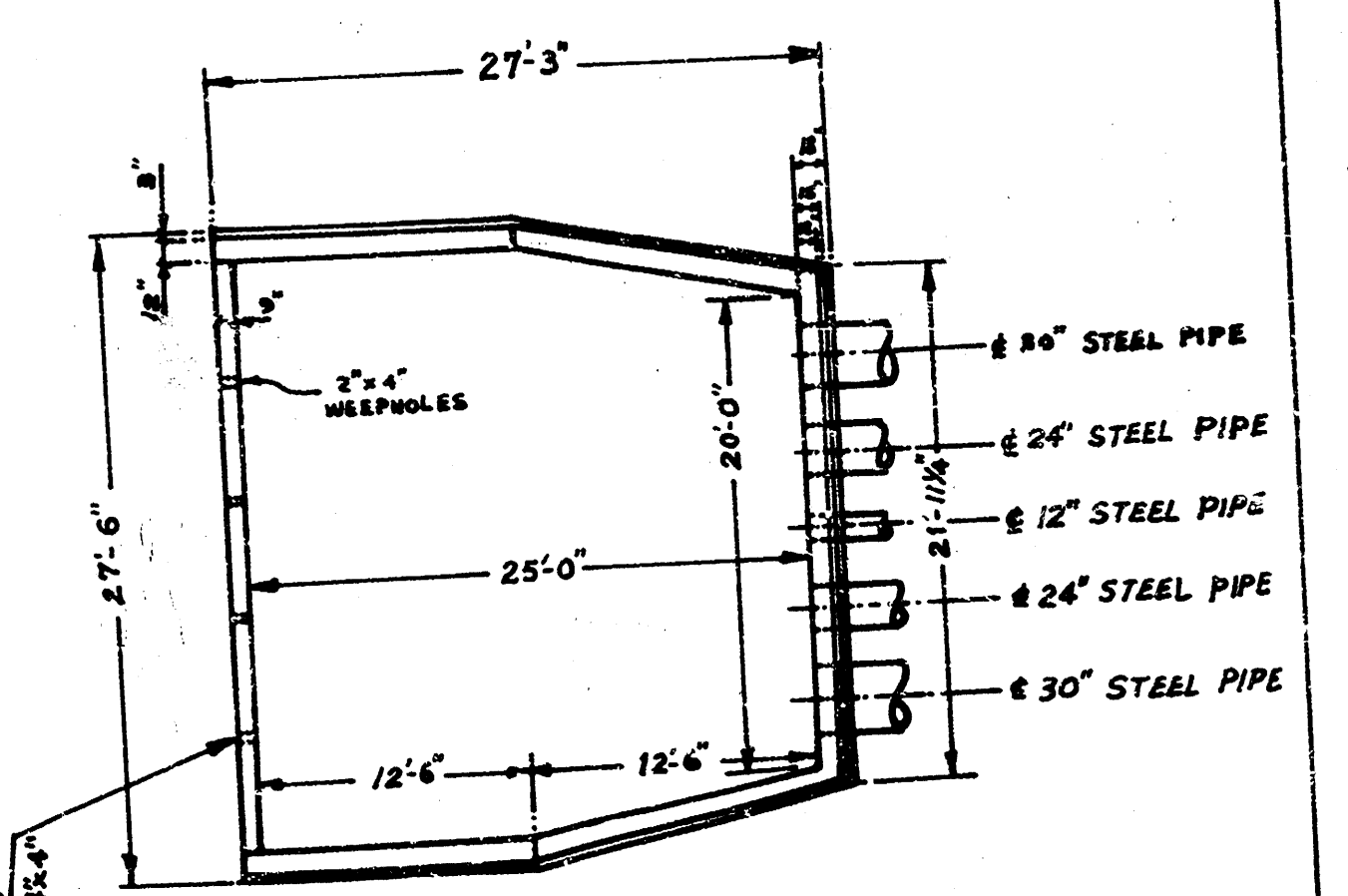
SECTION
Scale: 1/2" = 1'0"

All exposed edges to have 1/2" bevel.

a bars	b
a ₁ 5'8"	a ₁ 1'1"
a ₂ 5'6"	a ₂ 1'3"
a ₃ 5'3"	a ₃ 1'7"
a ₄ 5'0"	a ₄ 1'7"
a ₅ 4'8"	a ₅ 2'3"
a ₆ 4'6"	a ₆ 2'3"
a ₇ 4'3"	a ₇ 2'3"
a ₈ 4'1"	a ₈ 2'3"

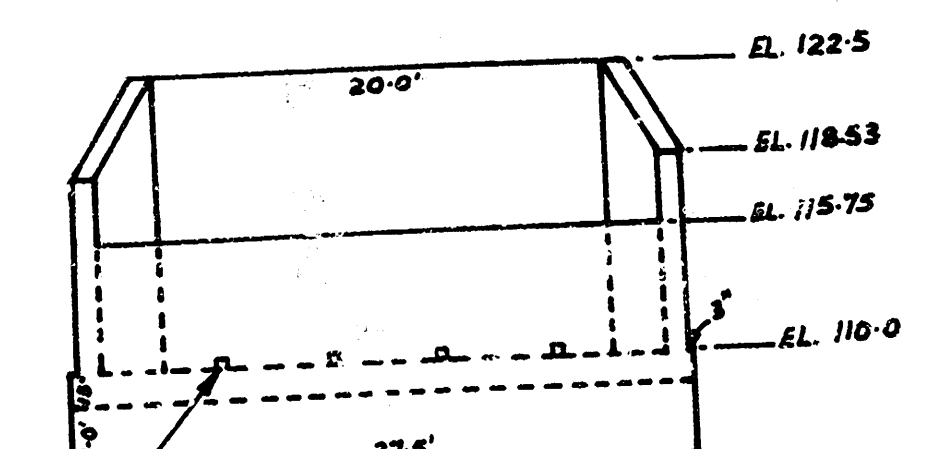
TABLE OF QUANTITIES				
BAR	NUMBER	LENGTH	SHAPE	WEIGHT
a ₁	1	7'0"		4.68
a ₂	1	7'4"		4.90
a ₃	1	7'9"		5.18
a ₄	1	8'2"		5.46
a ₅	1	8'6"		5.68
a ₆	1	9'0"		6.01
a ₇	1	9'5"		6.29
a ₈	1	11'7"		7.74
b	7	8'6"		35.07
c	1	6'0"		4.01
d	2	7'6"		10.02
e	1	4'5"		2.95
f	2	4'3"		5.68
Total Rebar, lbs				103.67
Concrete, C.Y.				2.01

HEADWALL FOR 30" PIPE



PLAN: EXISTING OUTFALL STRUCTURE

SCALE: 1" = 10'



EAST ELEVATION
SCALE: 1" = 10'