PLANS
FOR

PUMPING STATION

IN CONNECTION WITH

STORM WATER SEWER NO. 70

CITY OF WICHITA, KANSAS

B.E. SMITH CITY ENGINEER

PROJECT NO. C29-106

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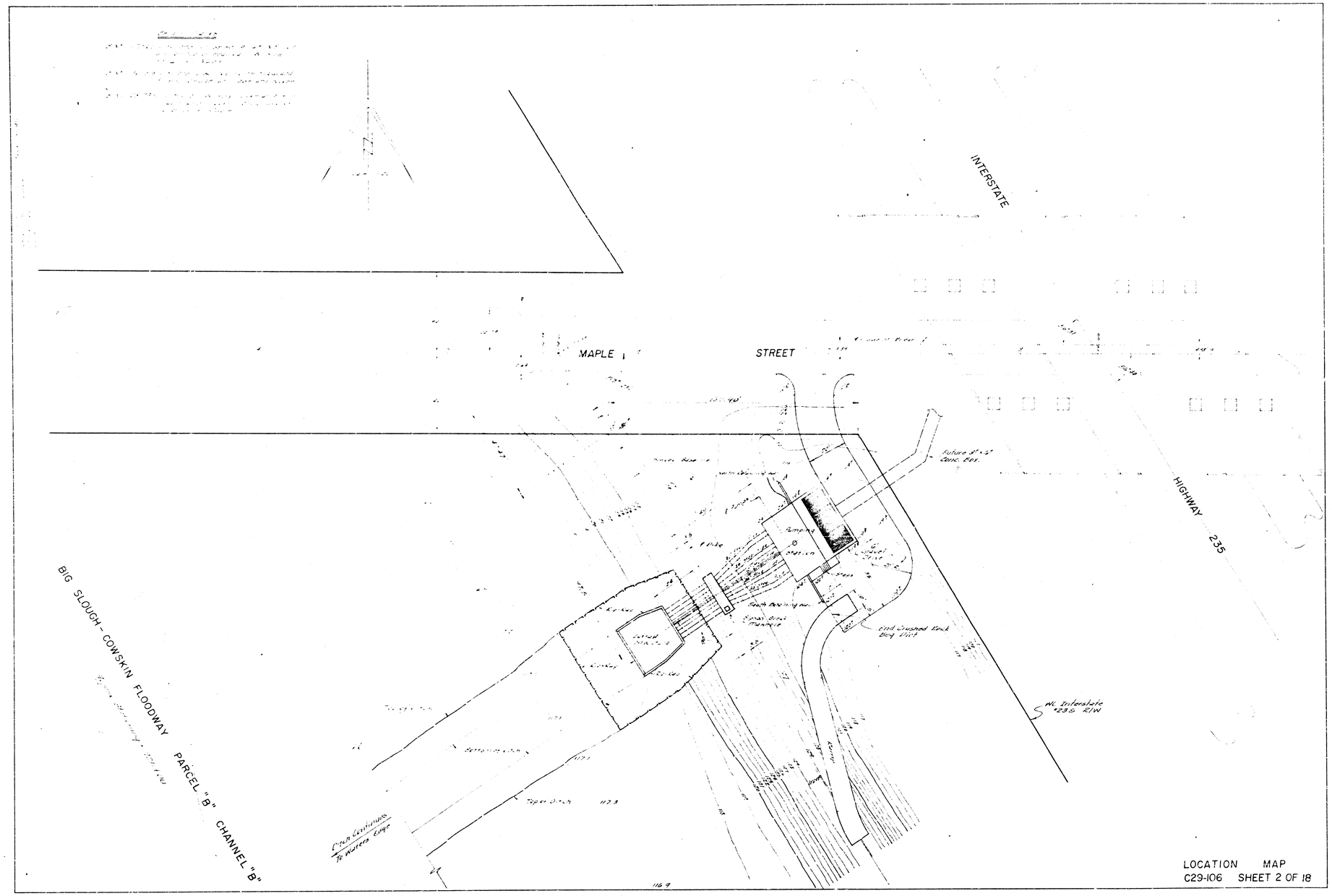
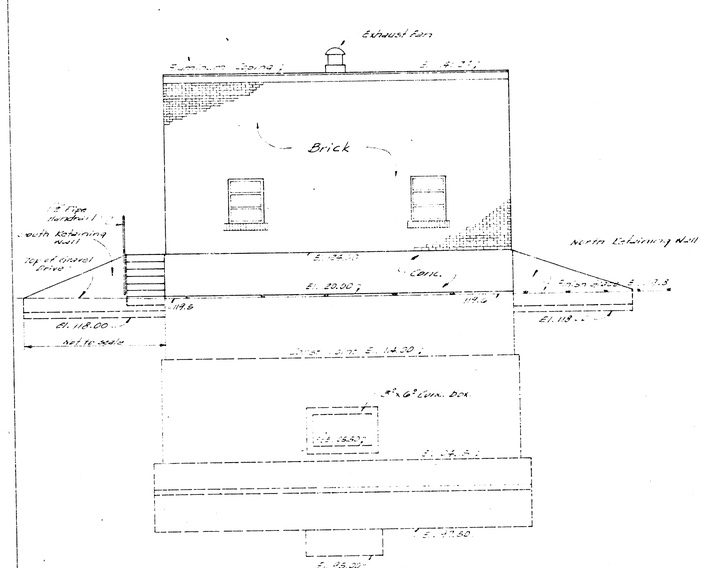
B.E. SMITH CITY ENGINEER

7-17-61

PUMPING STATION
S.W.S. 70
PROJ. NO. C29-106
SHEET 1 OF 18

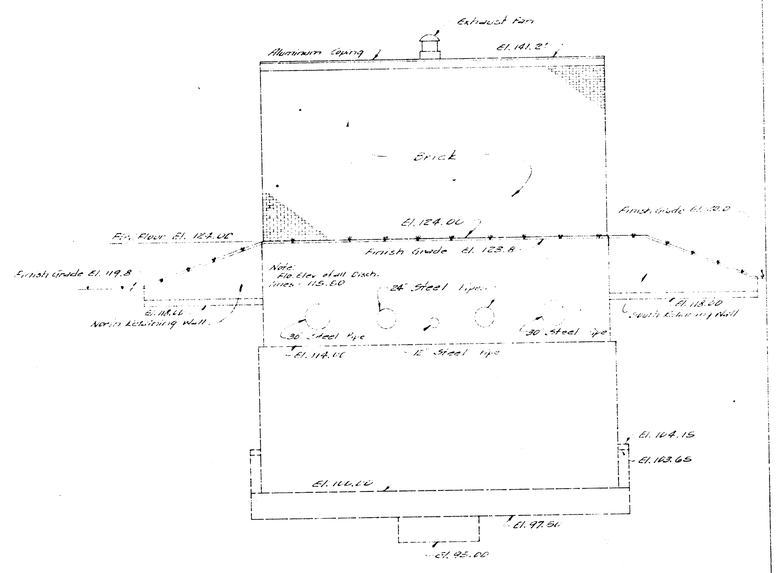


LOCATION MAP
C29-106 SHEET 2 OF 18



EAST ELEVATION

Scale 3/16" = 1'-0"



WEST ELEVATION

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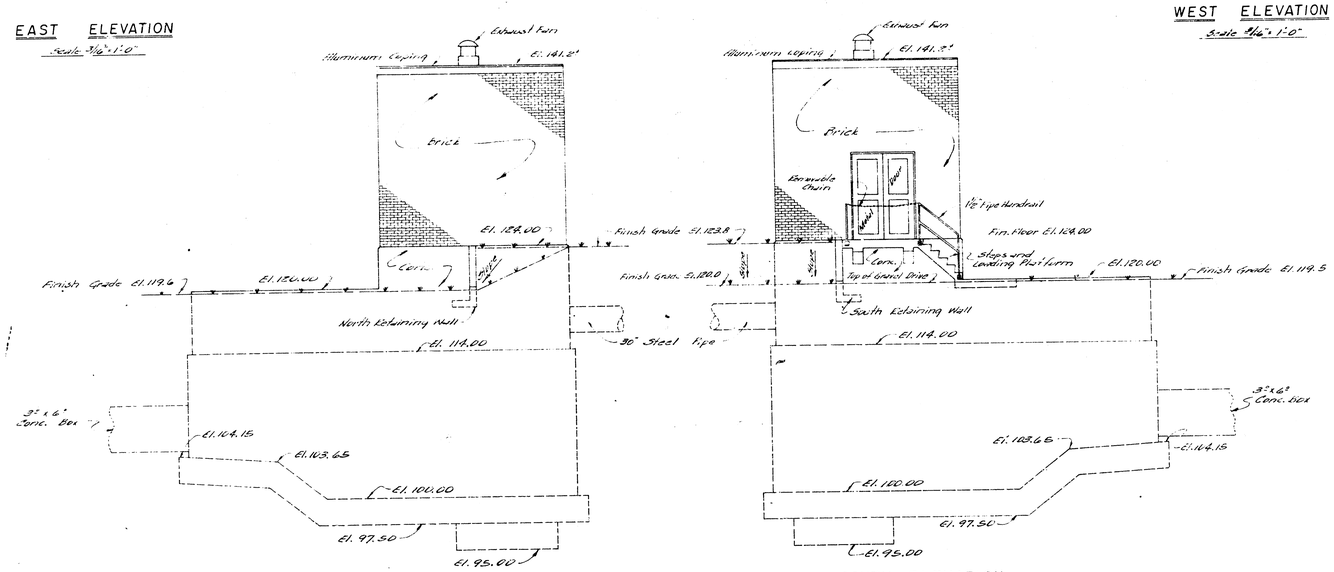


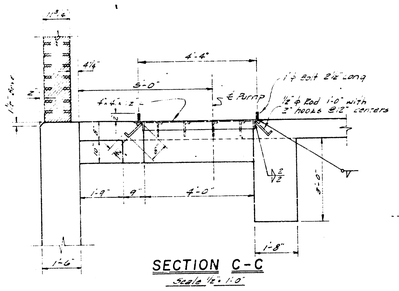
NORTH ELEVATION

Scale 3/16" = 1'-0"

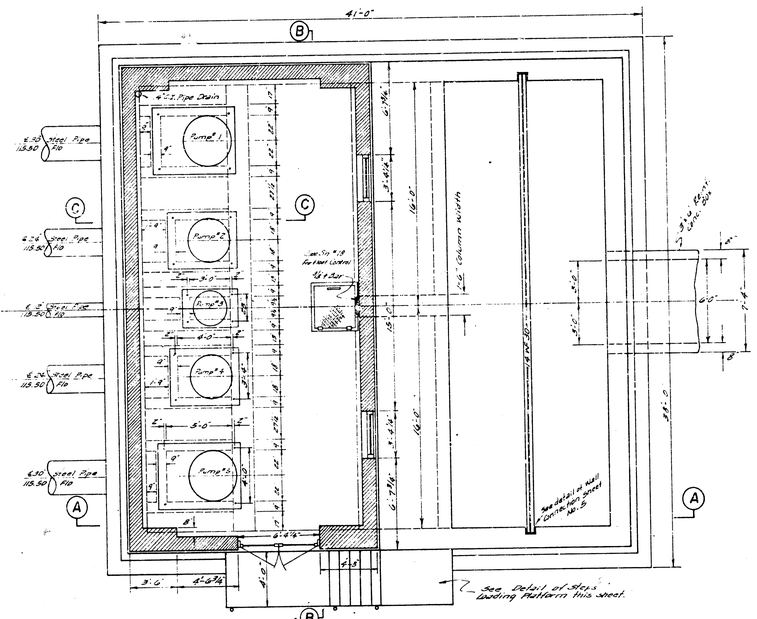
SOUTH ELEVATION

Scale 3/16" = 1'-0"

PUMPING STATION ELEVATIONS
C29-106 SHEET 3 OF 18



SECTION C-C
Scale 1/4" = 1'-0"



PLAN OF FOREBAY & OPERATING FLOOR
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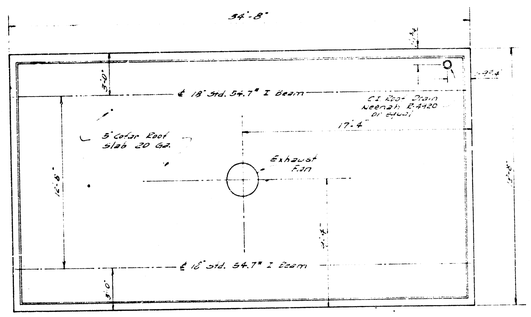
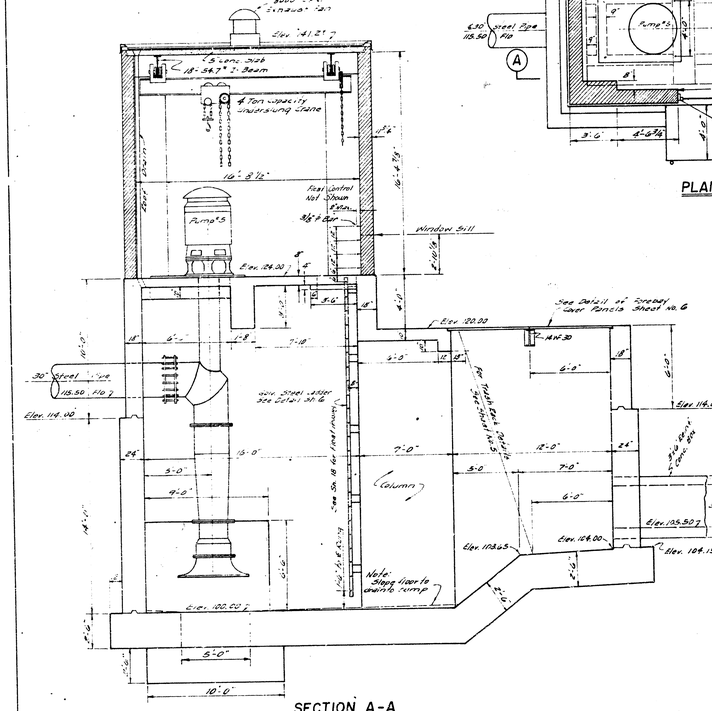


ROOF PLAN
Scale 1/4" = 1'-0"



SECTION A-A
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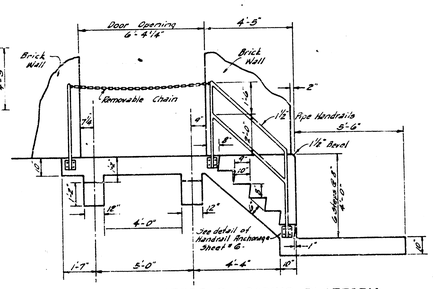
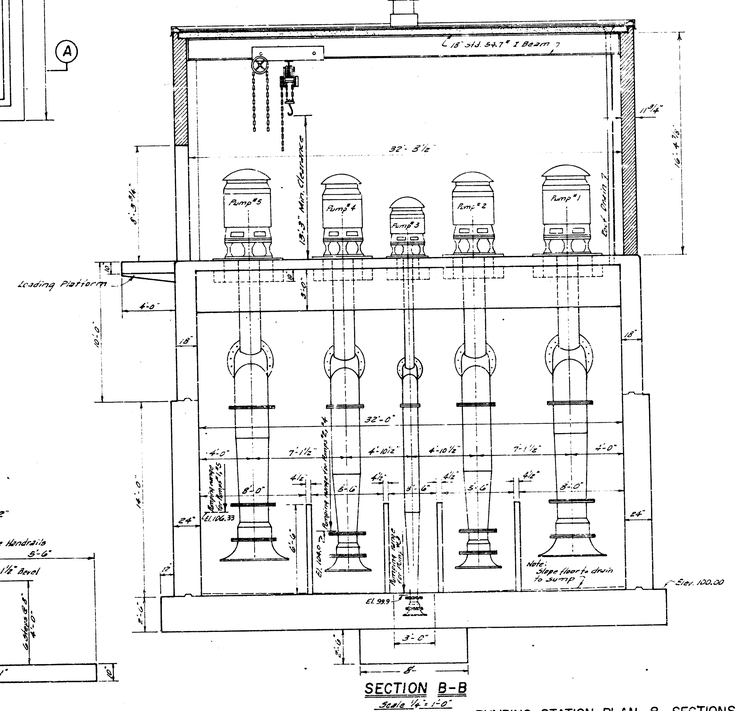
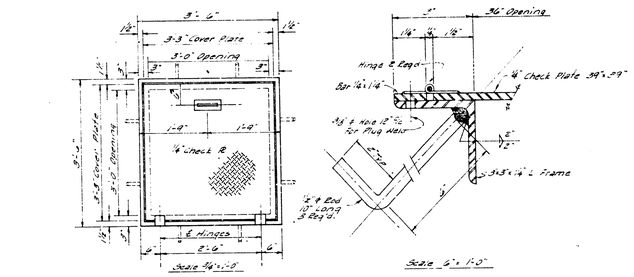


DETAIL OF STEPS & LOADING PLATFORM
Scale 1/2" = 1'-0"

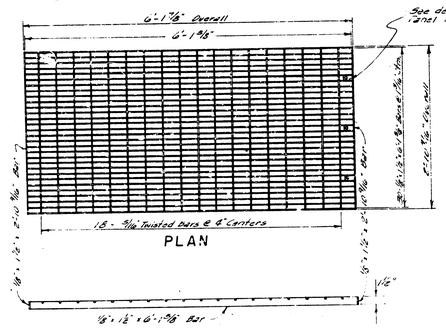


SECTION B-B
Scale 1/4" = 1'-0"

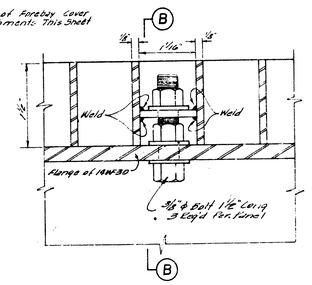
PUMPING STATION PLAN & SECTIONS
C29-106 SHEET 4 OF 18

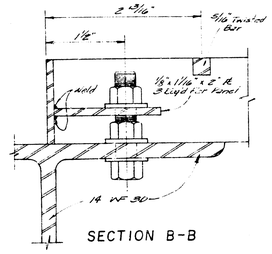


ACCESS HATCH DETAILS

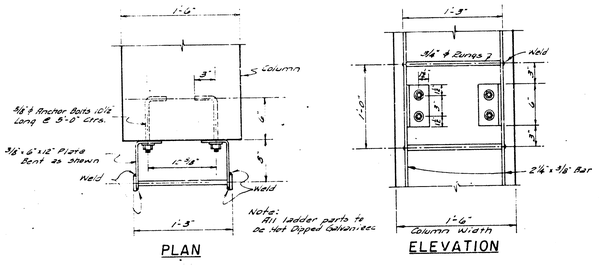


DETAIL OF FOREBAY COVER PANEL
(22 Req'd)
Scale 1"=1'-0"

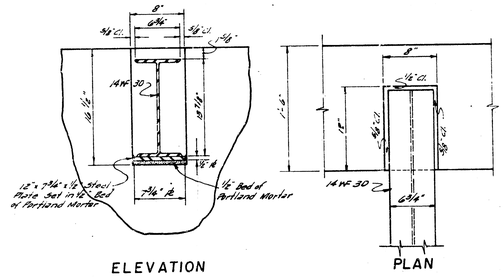




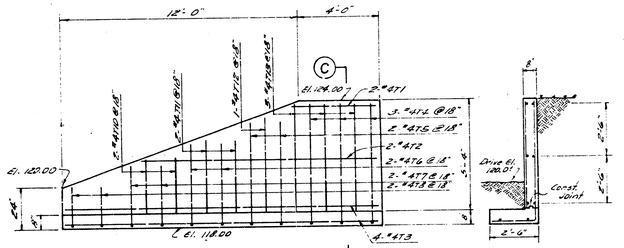
DETAIL OF FOREBAY COVER PANEL ATTACHMENTS
Full Scale

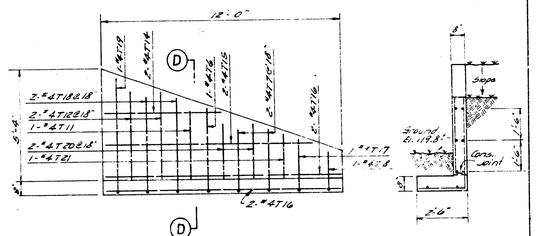


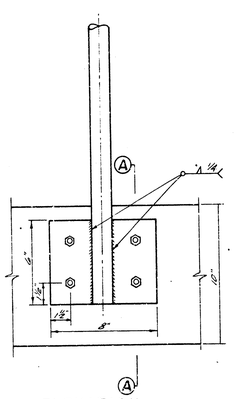
STEEL LADDER DETAILS
Scale 1½"=1'-0"

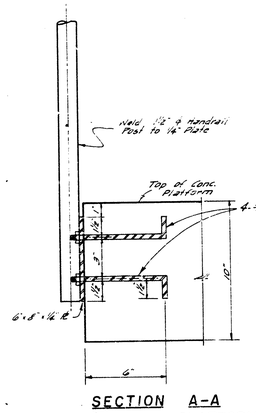


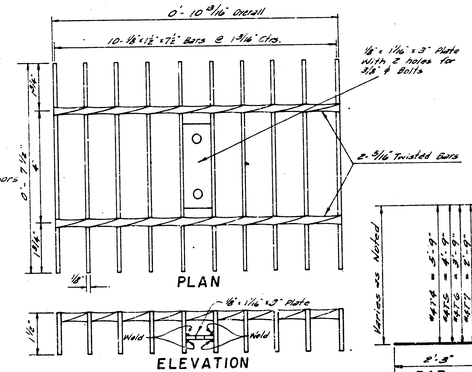
DETAIL OF 14 WF 30 WALL SUPPORTS
Scale 1"=1'-0"









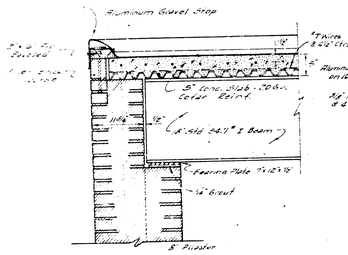


BAR DETAILS
No Scale

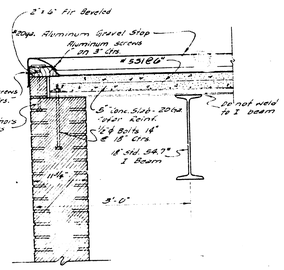
BAR SCHEDULE – RETAINING WALLS

BAR NO.	SIZE	LOCATION	LENGTH	QUAN. REQD.	SHAPE	W.T.
#4T1	#4	S. Ext. Wall	6'-3"	2	—	6
#4T2	#4	W.S. Ext. Wall	11'-9"	2	—	15
#4T3	#4	S. Ext. Wall	15'-6"	6	—	61
#4T4	#4	-	5'-0"	3	⌊⌊	16
#4T5	#4	-	7'-0"	2	⌊⌊	9
#4T6	#4	W.S. Ext. Wall	6'-0"	3	⌊⌊	12
#4T7	#4	-	5'-0"	6	⌊⌊	13
#4T8	#4	-	2'-0"	3	⌊⌊	8
#4T10	#4	S. Ext. Wall	2'-3"	2	—	3
#4T11	#4	W.S. Ext. Wall	3'-3"	3	—	7

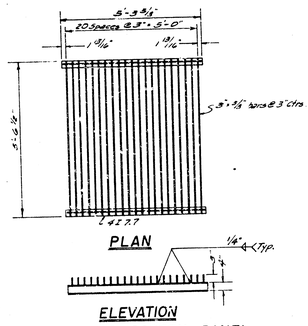
BAR NO.	SIZE	LOCATION	LENGTH	QUAN. REQD.	SHAPE	W.T.
#4T12	#4	W.S. Ext. Wall	4'-3"	3	—	8
#4T13	#4	S. Ext. Wall	5'-2"	3	—	11
#4T14	#4	N. Ext. Wall	5'-9"	2	—	8
#4T15	#4	-	10'-3"	2	—	14
#4T16	#4	-	11'-0"	4	—	30
#4T17	#4	-	8'-9"	1	—	3
#4T18	#4	-	6'-9"	2	—	5
#4T19	#4	-	7'-9"	1	—	3
#4T20	#4	-	2'-6"	2	—	3
#4T21	#4	-	2'-0"	1	—	1



TYPICAL END WALL SECTION AT ROOF
Scale 1"=1'-0"



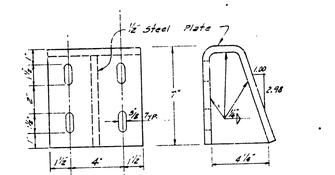
TYPICAL WALL SECTION AT ROOF
Scale 1"=1'-0"



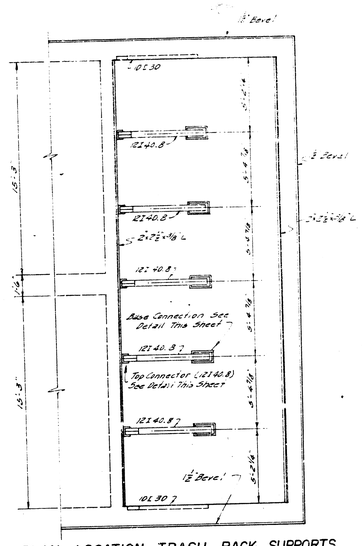
PLAN

ELEVATION

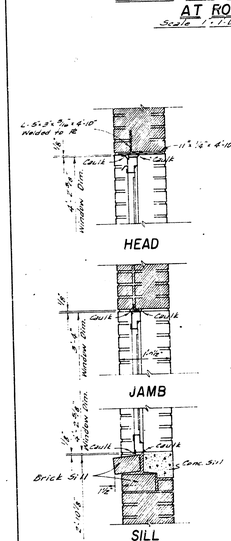
DETAIL OF SCREEN PANEL
(18 Req'd)
Scale 1/2"=1'-0"



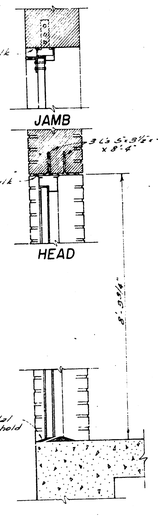
DETAIL OF TOP CONNECTOR (12 I 40.8)
(8 Req'd)
Scale 3"=1'-0"



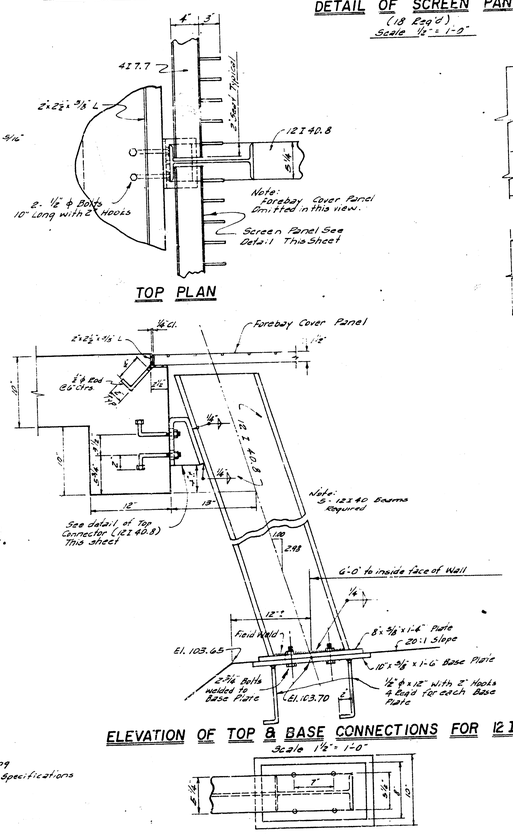
PLAN - LOCATION TRASH RACK SUPPORTS
Scale 1/4"=1'-0"



WINDOW DETAILS
Scale 1"=1'-0"



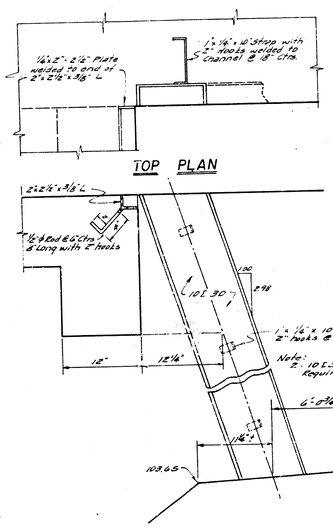
DOOR DETAILS
Scale 1"=1'-0"



TOP PLAN

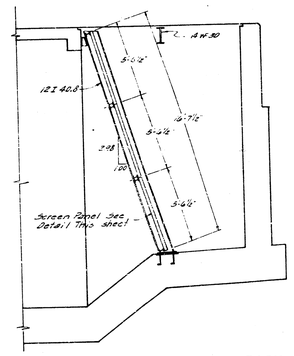
ELEVATION OF TOP & BASE CONNECTIONS FOR 12 I 40.8
Scale 1 1/2"=1'-0"

PLAN OF BASE

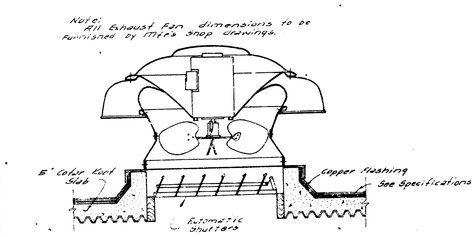


TOP PLAN

ELEVATION OF WALL CONNECTION (10 I 30)
Scale 1 1/2"=1'-0"



SECTION THRU TRASH RACK
Scale 1/4"=1'-0"



DETAIL OF EXHAUST FAN CURB
No Scale

MISC. PUMPING STATION DETAILS
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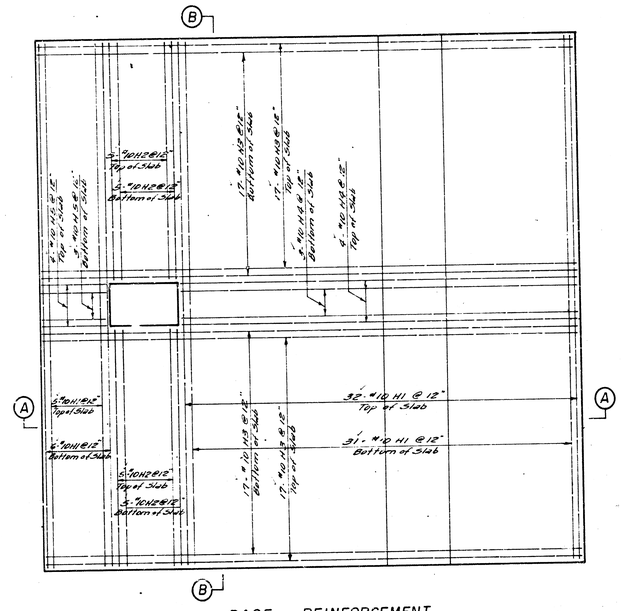
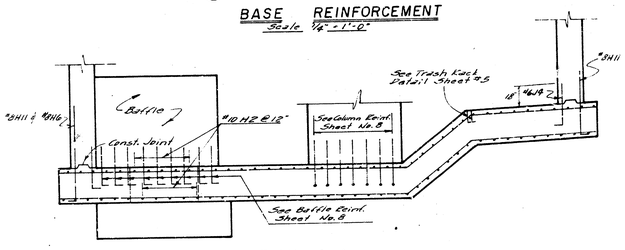
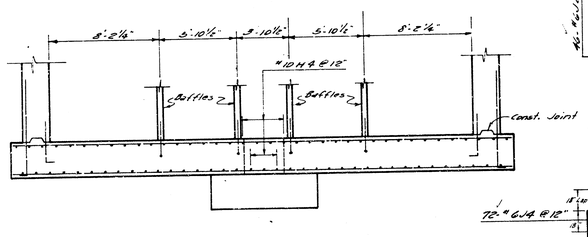


BASE REINFORCEMENT
Scale 1/4" = 1'-0"



SECTION A-A
Scale 1/4" = 1'-0"



SECTION B-B
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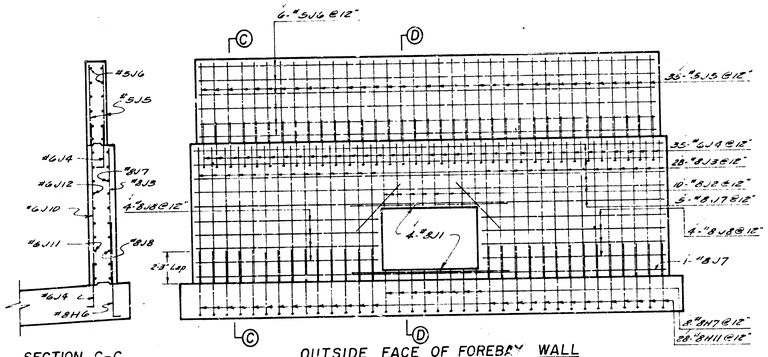
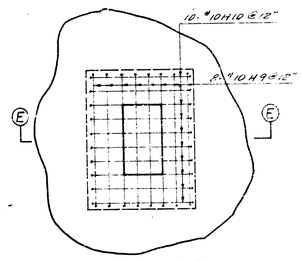
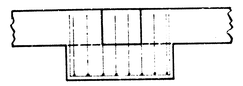


SECTION C-C
Scale 1/4" = 1'-0"

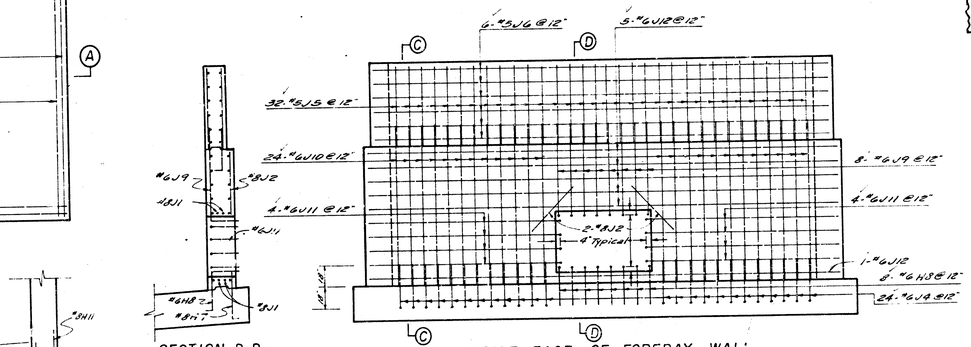
OUTSIDE FACE OF FOREBAY WALL
Scale 1/4" = 1'-0"



SUMP HOLE REINFORCEMENT
Scale 1/4" = 1'-0"

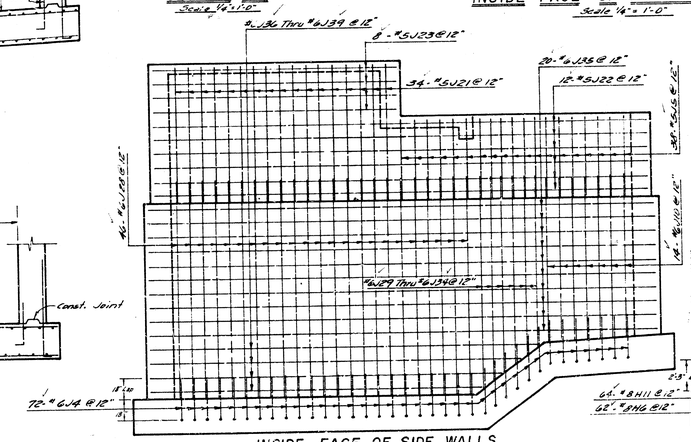


SECTION E-E
Scale 1/4" = 1'-0"

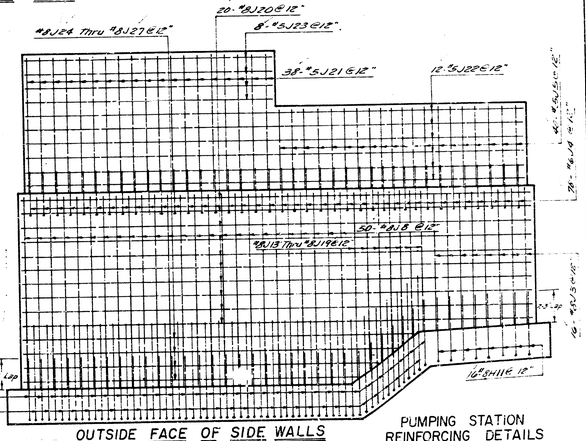


SECTION D-D
Scale 1/4" = 1'-0"

INSIDE FACE OF FOREBAY WALL
Scale 1/4" = 1'-0"

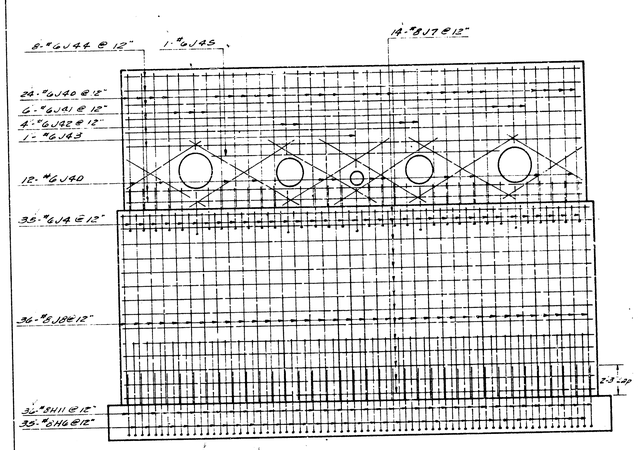


INSIDE FACE OF SIDE WALLS
Scale 1/4" = 1'-0"

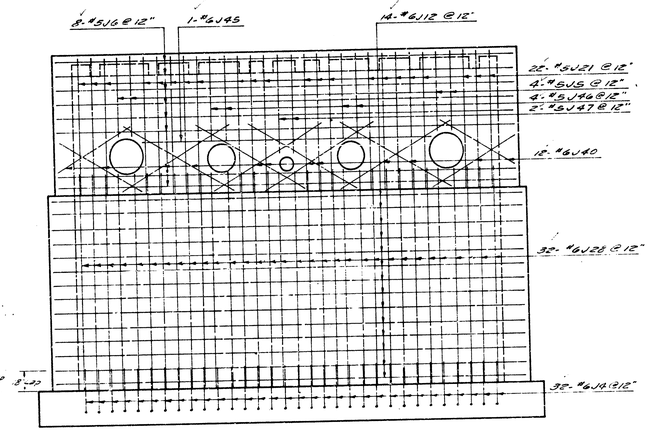


OUTSIDE FACE OF SIDE WALLS
Scale 1/4" = 1'-0"

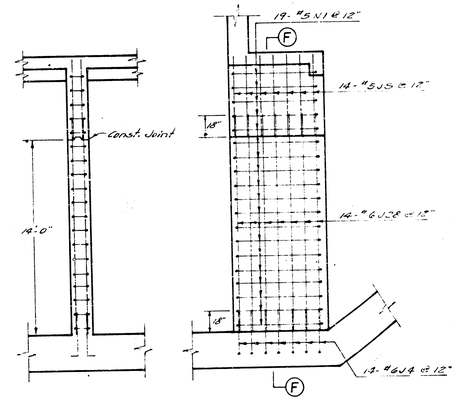
PUMPING STATION
REINFORCING DETAILS
C29-106 SHEET 7 OF 18



OUTSIDE FACE OF WEST WALL
Scale 1/4"=1'-0"

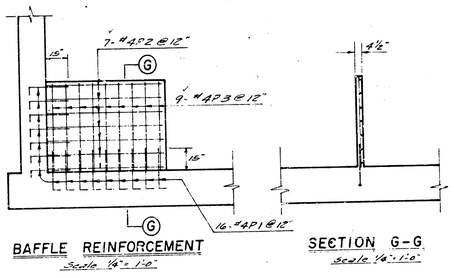


INSIDE FACE OF WEST WALL
Scale 1/4"=1'-0"



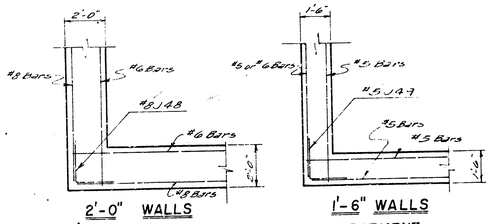
SECTION F-F
Scale 1/4"=1'-0"

COLUMN REINFORCEMENT
Scale 3/8"=1'-0"



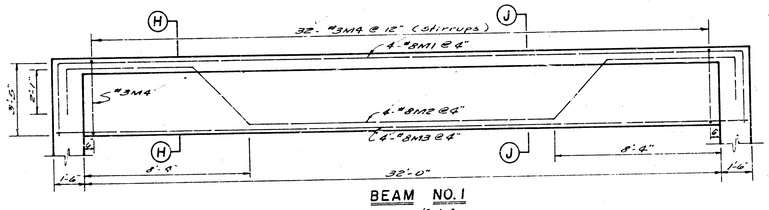
BAFFLE REINFORCEMENT
Scale 1/4"=1'-0"

SECTION G-G
Scale 1/4"=1'-0"

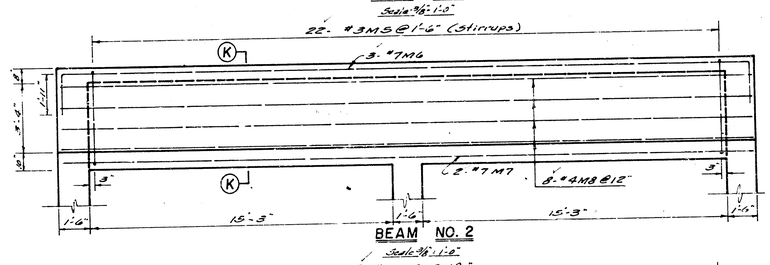


2'-0" WALLS 1'-6" WALLS

WALL CORNER REINFORCEMENT
Scale 3/8"=1'-0"



BEAM NO. 1
Scale 3/8"=1'-0"



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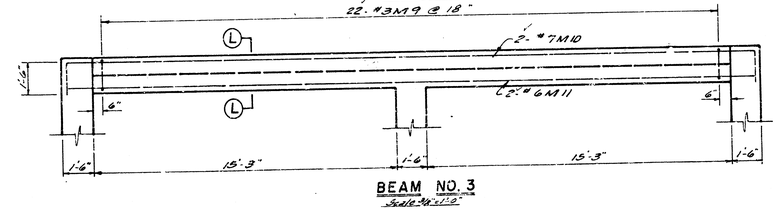

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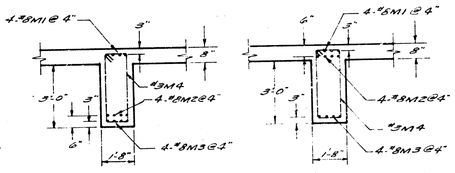
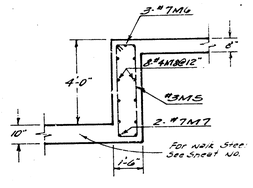
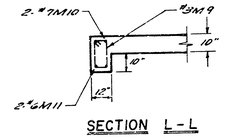


SECTION J-J
Scale 3/8"=1'-0"

SECTION H-H
Scale 3/8"=1'-0"

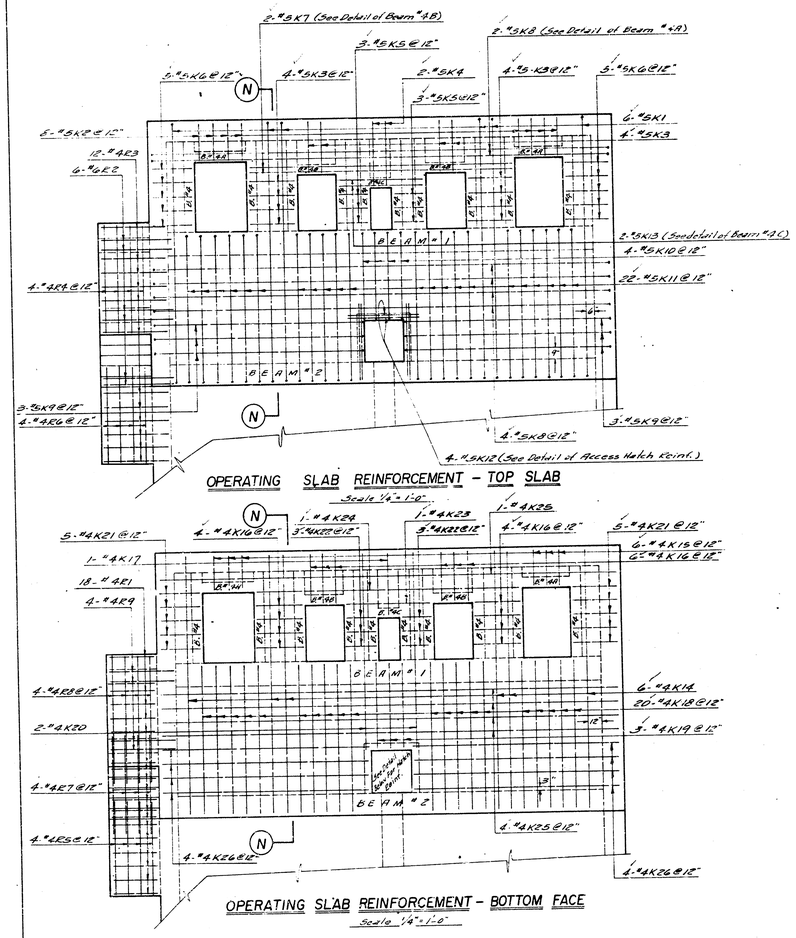


SECTION K-K
Scale 3/8"=1'-0"



SECTION L-L
Scale 3/8"=1'-0"

PUMPING STATION
REINFORCING DETAILS
C29-106 SHEET 8 OF 18

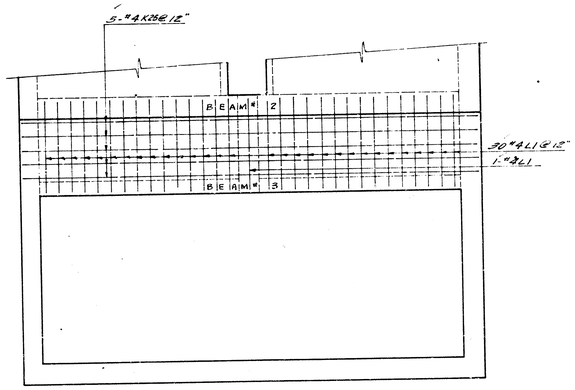


OPERATING SLAB REINFORCEMENT - TOP SLAB

Scale 1/4" = 1'-0"

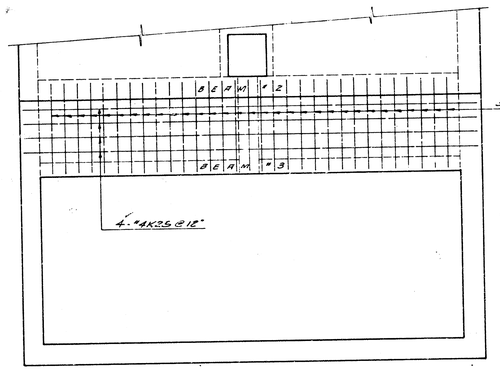
OPERATING SLAB REINFORCEMENT - BOTTOM FACE

Scale 1/4" = 1'-0"



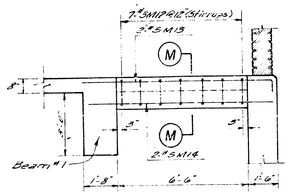
TRASH RACK SERVICE SLAB REINFORCEMENT - TOP FACE

Scale 1/4" = 1'-0"



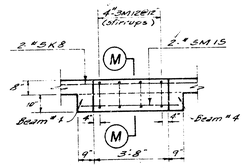
TRASH RACK SERVICE SLAB REINFORCEMENT - BOTTOM FACE

Scale 1/4" = 1'-0"



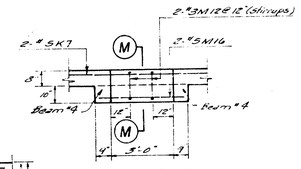
BEAM NO.4

Scale 3/8" = 1'-0"



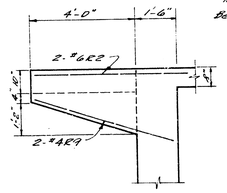
BEAM NO.4A

Scale 3/8" = 1'-0"



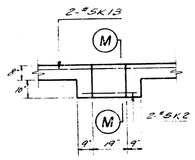
BEAM NO 4B

Scale 3/8" = 1'-0"



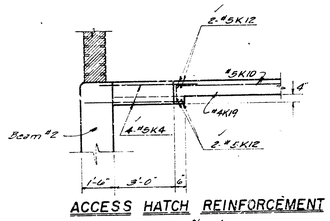
SECTION P-P

Scale 1/2" = 1'-0"



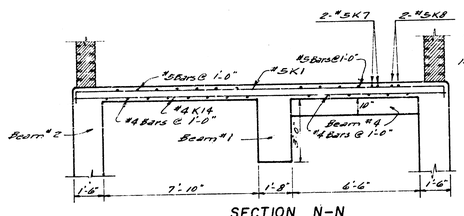
BEAM NO 4C

Scale 3/8" = 1'-0"



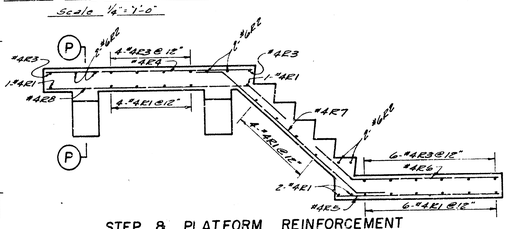
ACCESS HATCH REINFORCEMENT

Scale 3/8" = 1'-0"



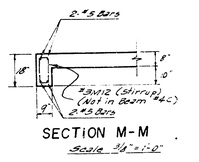
SECTION N-N

Scale 3/8" = 1'-0"



STEP & PLATFORM REINFORCEMENT

Scale 1/2" = 1'-0"



SECTION M-M

Scale 3/8" = 1'-0"

PUMPING STATION
REINFORCING DETAILS
C29-106 SHEET 9 OF 18

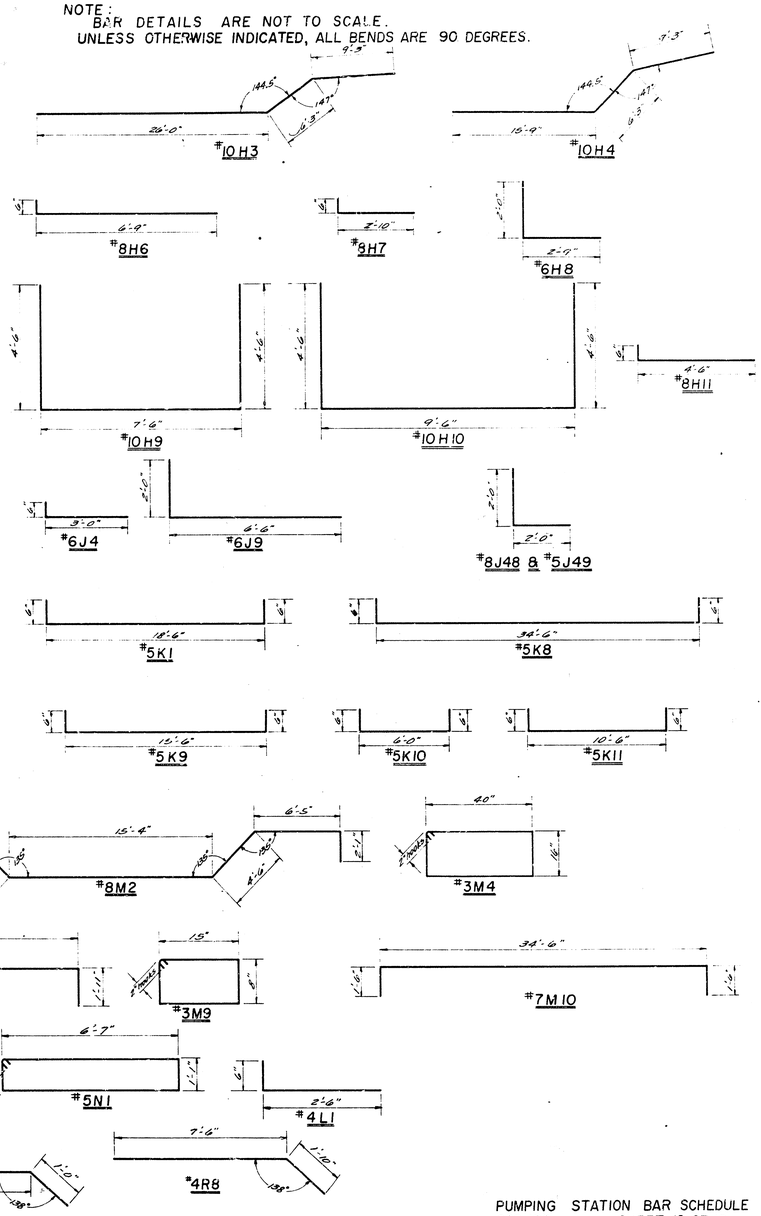
PUMPING STATION - BAR SCHEDULE

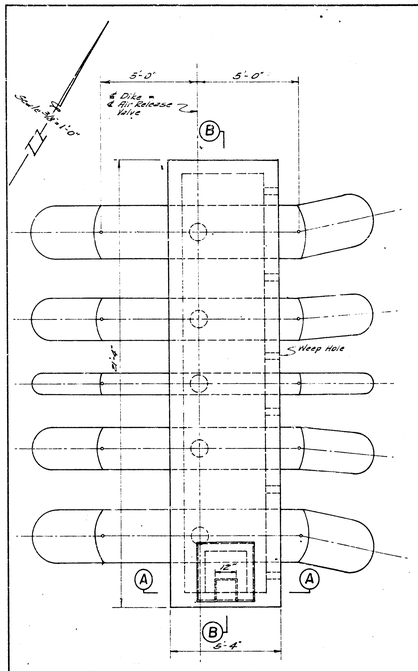
BAR NO.	SIZE	LOCATION	LENGTH	QUAN. REQ'D.	SHAPE	WEIGHT
#10H1	#10	Base	37'-6"	74		11941
#10H2	#10	"	17'-0"	20		1463
#10H3	#10	"	42'-0"	68		12289
#10H4	#10	"	31'-3"	7		941
#10H5	#10	"	5'-0"	7		151
#8H6	#8	"	7'-3"	97		1878
#8H7	#8	"	3'-9"	8		71
#8H8	#8	"	4'-9"	8		57
#10H9	#10	Sump Hole	16'-6"	8		568
#10H10	#10	"	18'-6"	10		796
#8H11	#8	Base	5'-0"	144		1922
#8J1	#8	Forebay Wall	12'-0"	4		128
#8J2	#8	"	6'-6"	10		120
#8J3	#8	Forebay Wall, Side Walls	9'-9"	44		1145
#6J4	#6	Forebay Wall, Side Walls West Side (Beam)	3'-6"	290		1525
#10J5	#5	"	5'-9"	163		978
#8J6	#5	Forebay Wall, West Wall	36'-6"	20		720
#8J7	#8	"	35'-6"	20		1896
#8J8	#8	Side Walls, West Wall Forebay Wall	13'-9"	99		3451
#6J9	#6	Forebay Wall	8'-6"	8		102
#6J10	#6	Forebay Wall, Side Walls	11'-6"	38		656
#6J11	#6	Forebay Wall	18'-6"	8		198
#6J12	#6	Forebay Wall, West Wall	35'-6"	20		1066
#8J13	#8	Side Walls	13'-3"	2		71
#8J14	#8	"	12'-9"	2		68
#8J15	#8	"	12'-0"	2		64
#8J16	#8	"	11'-6"	2		61
#8J17	#8	"	11'-0"	2		59
#8J18	#8	"	10'-6"	2		56
#8J19	#8	"	10'-0"	2		53
#8J20	#8	"	38'-6"	20		2056
#5J21	#5	Side Walls, West Wall	9'-9"	98		956
#5J22	#5	Side Walls	37'-6"	24		939
#5J23	#5	"	18'-6"	16		309
#8J24	#8	"	29'-3"	2		156
#8J25	#8	"	23'-0"	2		150
#8J26	#8	"	26'-6"	2		142
#8J27	#8	"	25'-0"	2		134
#6J28	#6	Side Walls, West Wall Column	15'-6"	92		2142
#6J29	#6	Side Walls	15'-3"	2		46
#6J30	#6	"	14'-6"	2		44
#6J31	#6	"	14'-0"	2		42
#6J32	#6	"	13'-3"	2		40
#6J33	#6	"	12'-9"	2		38
#6J34	#6	"	12'-3"	2		37
#6J35	#6	"	38'-6"	20		1157
#6J36	#6	"	29'-3"	2		88
#6J37	#6	"	28'-0"	2		84
#6J38	#6	"	26'-6"	2		80
#6J39	#6	"	25'-0"	2		75
#5J40	#6	West Wall	9'-9"	48		703
#6J41	#6	"	5'-6"	6		50
#6J42	#6	"	6'-0"	4		36
#6J43	#6	"	7'-0"	1		11
#6J44	#6	"	34'-6"	8		415
#6J45	#6	"	21'-6"	2		65
#5J46	#5	"	6'-0"	4		25
#5J47	#5	"	7'-0"	2		15
#8J48	#8	Corners	4'-0"	48		513
#6J49	#6	"	4'-0"	40		167
#5K1	#5	Operating Slab	18'-6"	6		122
#5K2	#5	Operating Slab, Beam #2	2'-6"	10		26
#5K3	#5	Operating Slab	3'-6"	12		44
#5K4	#5	Operating Slab, Hatchway	4'-9"	10		50
#5K5	#5	Operating Slab	2'-0"	6		13
#5K6	#5	"	3'-0"	10		31
#5K7	#5	"	20'-0"	2		42
#5K8	#5	"	35'-6"	6		222
#5K9	#5	"	16'-6"	6		103
#5K10	#5	"	7'-0"	4		29
#5K11	#5	"	11'-0"	22		269
#5K12	#5	Hatchway	3'-9"	4		16
#5K13	#5	Operating Slab	6'-3"	2		13
#4K14	#4	"	18'-6"	6		74
#4K15	#4	"	2'-6"	6		10
#4K16	#4	"	3'-6"	14		33

PUMPING STATION - BAR SCHEDULE

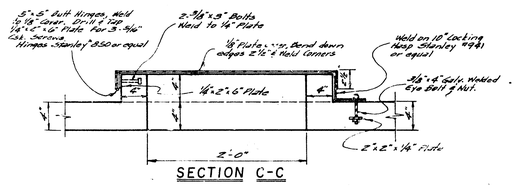
BAR NO.	SIZE	LOCATION	LENGTH	QUAN. REQ'D.	SHAPE	WEIGHT
#4K17	#4	Operating Slab	4'-6"	1		3
#4K18	#4	"	10'-6"	20		140
#4K19	#4	"	6'-0"	3		12
#4K20	#4	"	14'-0"	2		19
#4K21	#4	"	3'-3"	10		22
#4K22	#4	"	2'-3"	6		9
#4K23	#4	"	6'-3"	1		4
#4K24	#4	"	20'-0"	1		13
#4K25	#4	Operating, Service Slabs	34'-6"	14		323
#4K26	#4	Operating Slab	15'-6"	8		83
#6L1	#4	Service Slab	6'-6"	62		269
#8N11	#8	Beam #1	41'-6"	4		443
#8N12	#8	"	41'-6"	4		442
#8M3	#8	"	34'-6"	4		368
#3M4	#3	"	9'-8"	32		116
#3M5	#3	Beam #2	11'-6"	22		95
#7M6	#7	"	35'-6"	3		235
#7M7	#7	"	34'-6"	2		141
#4M8	#4	"	34'-6"	8		184
#3M9	#3	Beam #3	4'-2"	22		34
#7M10	#7	"	37'-6"	2		153
#6M11	#6	"	34'-6"	2		104
#3M12	#3	Beams 4, 4A, 4B	3'-4"	82		103
#5M13	#5	Beam #4	10'-0"	20		209
#5M14	#5	"	9'-0"	20		188
#5M15	#5	Beam #4A	4'-9"	4		20
#5M16	#5	Beam #4B	4'-0"	4		17
#5N1	#5	Column	15'-8"	19		311
#4P1	#4	Baffle	3'-0"	64		128
#4P2	#4	"	8'-9"	28		164
#4P3	#4	"	6'-3"	36		150
#4R1	#4	Steps & Platform	3'-6"	18		42
#6Z2	#5	"	3'-9"	6		52
#4Z3	#4	"	3'-6"	12		40
#4Z4	#4	"	7'-9"	4		21
#4Z5	#4	"	6'-0"	4		16
#4Z6	#4	"	7'-3"	4		20
#4Z7	#4	"	8'-7"	4		23
#4Z8	#4	"	9'-3"	4		25
#4Z9	#4	"	5'-6"	4		15
#5S1	#5	Roof Slab	17'-9"	68		1259

NOTE:
BAR DETAILS ARE NOT TO SCALE.
UNLESS OTHERWISE INDICATED, ALL BENDS ARE 90 DEGREES.

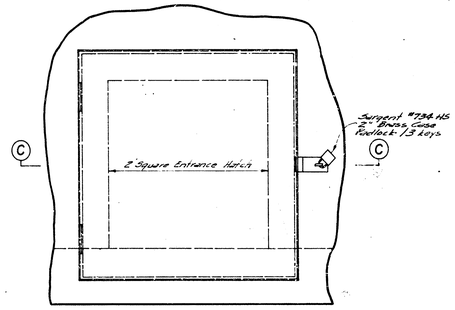




PLAN OF SIPHON BREAK MANHOLE
Scale 3/8"=1'-0"

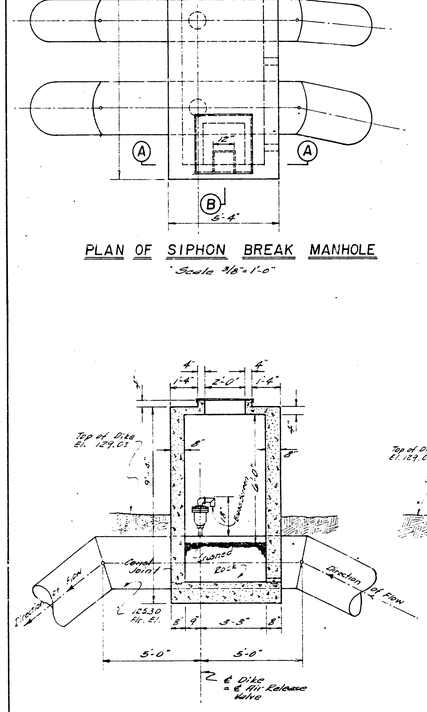


SECTION C-C

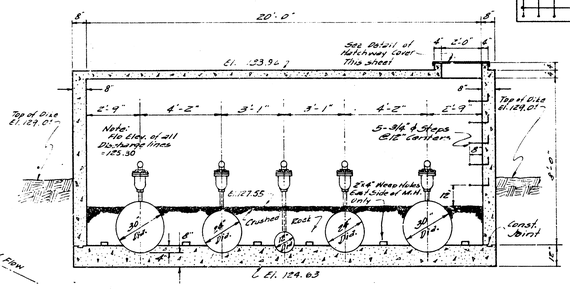


PLAN

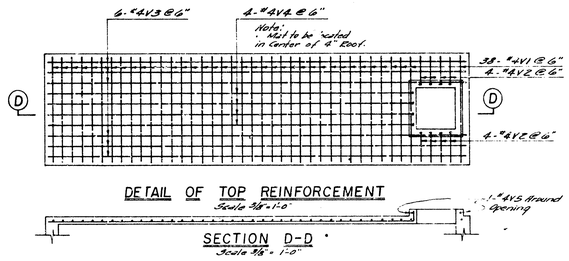
DETAIL OF HATCHWAY COVER
Scale 1 1/2"=1'-0"



SECTION A-A
Scale 3/8"=1'-0"

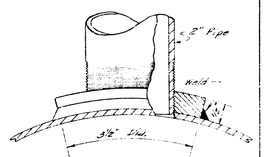


SECTION B-B
Scale 3/8"=1'-0"

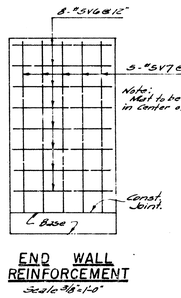


DETAIL OF TOP REINFORCEMENT
Scale 3/8"=1'-0"

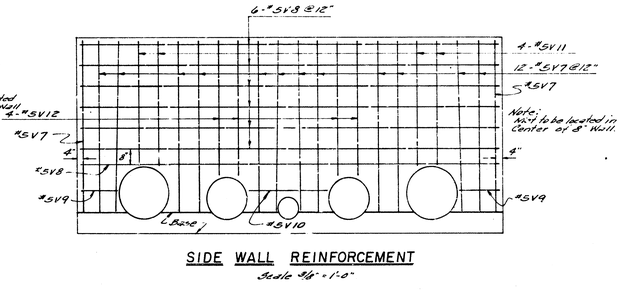
SECTION D-D
Scale 3/8"=1'-0"



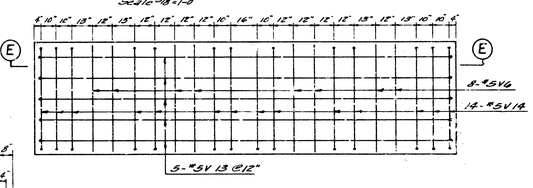
REINFORCING PAD FOR TAPPED OPENING
No Scale



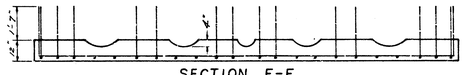
END WALL REINFORCEMENT
Scale 3/8"=1'-0"



SIDE WALL REINFORCEMENT
Scale 3/8"=1'-0"

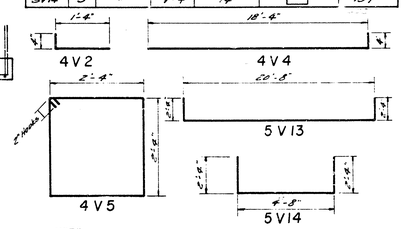


BASE REINFORCEMENT
Scale 3/8"=1'-0"



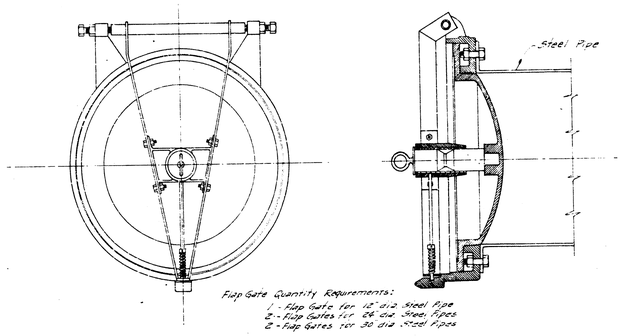
SECTION E-E
Scale 3/8"=1'-0"

BAR SCHEDULE - SIPHON BREAK MANHOLE						
BAR NO.	SIZE	LOCATION	LENGTH	QUAN. REQD.	SHAPE	WEIGHT
#4V1	#4	Top	5'-0"	38	—	127
#4V2	#4	"	1'-8"	8	L	10
#4V3	#4	"	21'-0"	6	—	84
#4V4	#4	"	18'-8"	4	—	50
#4V5	#4	"	9'-8"	1	□	6
#5V6	#5	End Walls, Side Walls	5'-0"	24	—	125
#5V7	#5	Side Walls, End Walls	8'-2"	38	—	324
#5V8	#5	Side Walls	21'-0"	14	—	307
#5V9	#5	"	1'-9"	4	—	7
#5V10	#5	"	8'-0"	2	—	8
#5V11	#5	"	5'-9"	8	—	48
#5V12	#5	"	6'-6"	8	—	54
#5V13	#5	Base	25'-4"	5	—	133
#5V14	#5	"	9'-4"	14	—	139



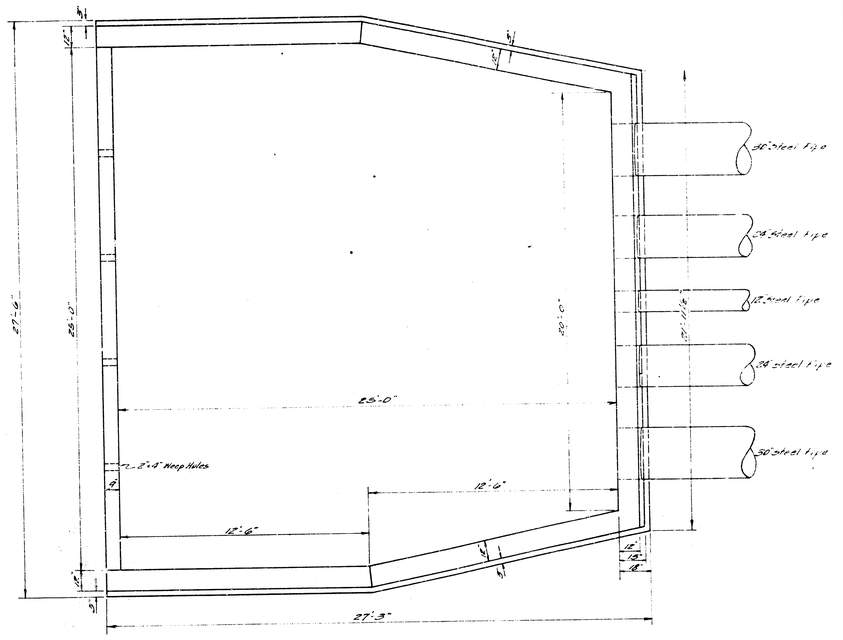
NOTE:
BAR DETAILS ARE NOT TO SCALE. UNLESS OTHERWISE INDICATED, ALL BENDS ARE 90 DEGREES.

SIPHON BREAK MANHOLE
C29-106 SHEET 11 OF 18

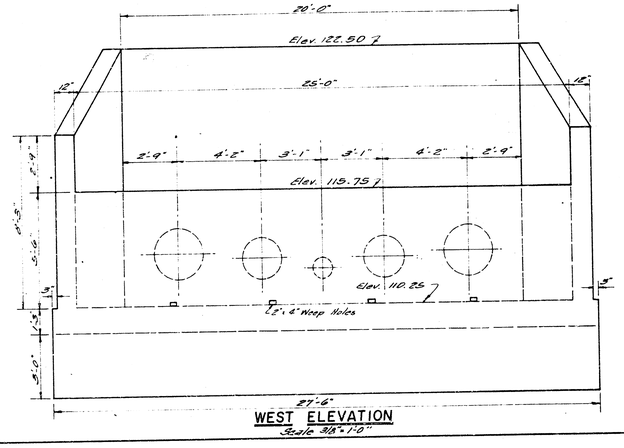


Flap Gate Quantity Requirements:
1 - Flap Gate for 12" dia Steel Pipe
2 - Flap Gates for 24" dia Steel Pipes
2 - Flap Gates for 30 dia Steel Pipes

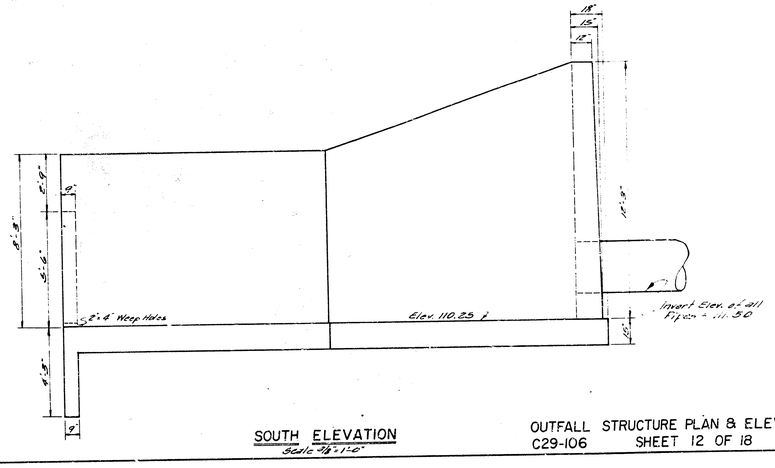
FLAP GATE DETAILS
No Scale



TOP VIEW OF OUTFALL STRUCTURE
Scale 1/8" = 1'-0"

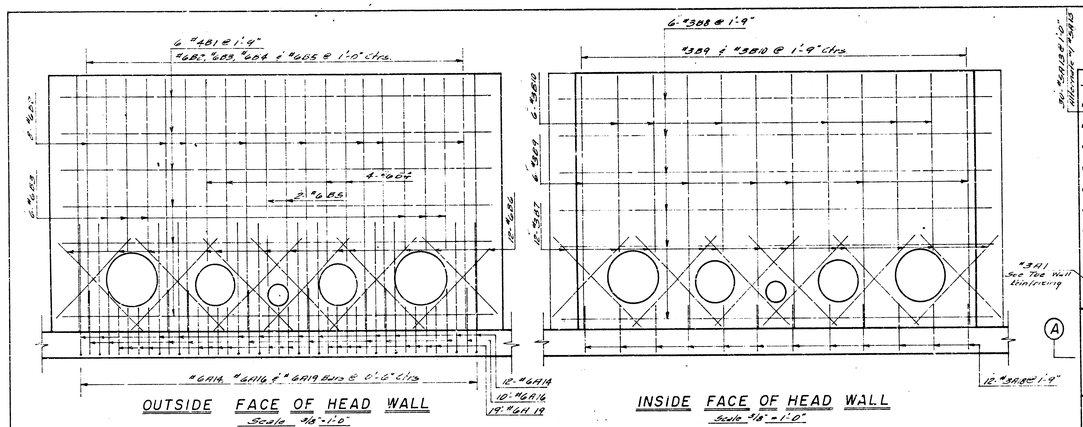


WEST ELEVATION
Scale 3/8" = 1'-0"



SOUTH ELEVATION
Scale 3/8" = 1'-0"

OUTFALL STRUCTURE PLAN & ELEV'S
C29-106 SHEET 12 OF 18

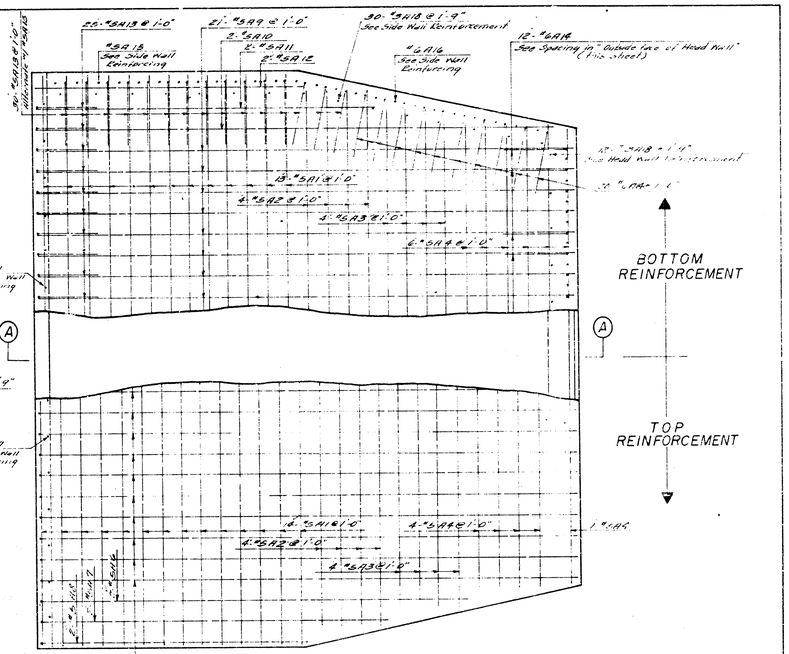


OUTSIDE FACE OF HEAD WALL

Scale 3/8"=1'-0"

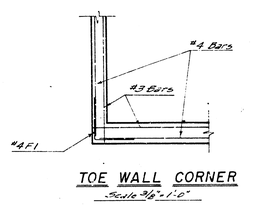
INSIDE FACE OF HEAD WALL

Scale 3/8"=1'-0"



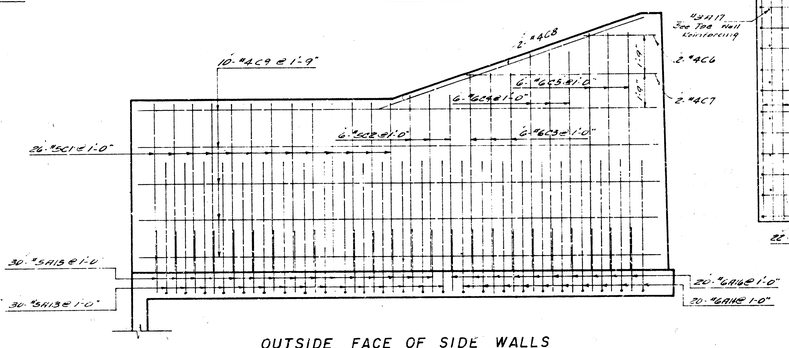
BASE REINFORCEMENT

Scale 3/8"=1'-0"



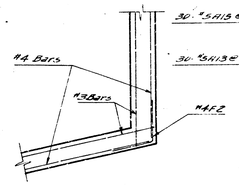
TOE WALL CORNER

Scale 3/8"=1'-0"



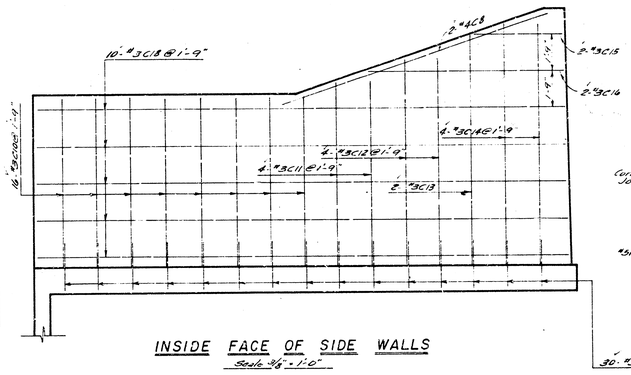
OUTSIDE FACE OF SIDE WALLS

Scale 3/8"=1'-0"



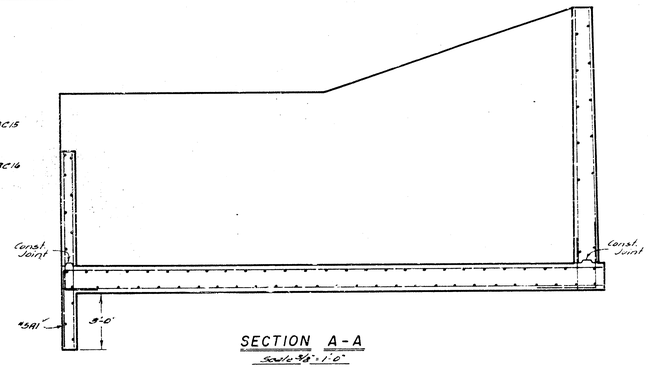
HEAD WALL CORNER

Scale 3/8"=1'-0"



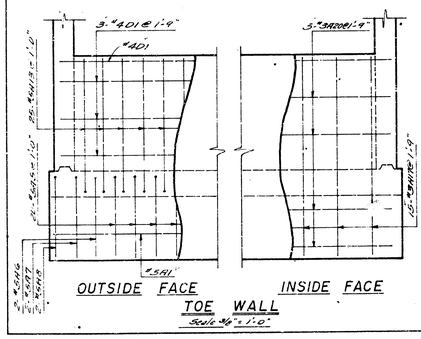
INSIDE FACE OF SIDE WALLS

Scale 3/8"=1'-0"



SECTION A-A

Scale 3/8"=1'-0"



OUTSIDE FACE INSIDE FACE

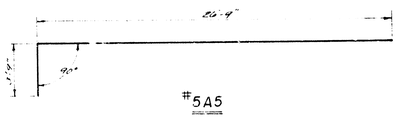
TOE WALL

Scale 3/8"=1'-0"

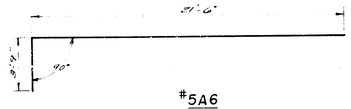
OUTFALL STRUCTURE
REINFORCING DETAILS
C29-106 SHEET 13 OF 18

OUTFALL STRUCTURE - BAR SCHEDULE

BAR NO.	SIZE	LOCATION	LENGTH	QUAN. REQ'D.	SHAPE	WEIGHT
#5A1	#5	Base & Toewall	27'-0"	28	——	789
#5A2	#5	Base	25'-0"	8	——	213
#5A3	#5	"	24'-2"	8	——	200
#5A4	#5	"	21'-4"	11	——	247
#5A5	#5	"	33'-6"	22	⌐——	700
#5A6	#5	"	26'-3"	2	⌐——	53
#5A7	#5	"	2'-3"	2	⌐—	44
#5A8	#5	"	17'-0"	2	⌐—	35
#5A9	#5	"	26'-9"	21	——	586
#5A10	#5	"	26'-0"	2	——	54
#5A11	#5	"	17'-0"	2	——	35
#5A12	#5	"	8'-6"	2	—	18
#5A13	#5	"	9'-3"	55	⌐⌐	531
#5A14	#6	"	9'-3"	32	⌐⌐	445
#5A15	#5	"	3'-0"	30	—	94
#5A16	#6	"	3'-0"	30	—	135
#3A17	#3	"	9'-6"	15	——	54
#3A18	#3	"	2'-3"	42	—	36
#5A19	#5	"	2'-3"	19	—	54
#3A20	#3	Toe Wall	26'-6"	5	——	50
#4B1	#4	Head Wall	21'-6"	6	——	86
#4B2	#4	"	12'-0"	8	——	144
#4B3	#4	"	8'-3"	6	——	76
#4B4	#4	"	8'-9"	4	——	53
#4B5	#4	"	9'-9"	2	——	29
#4B6	#4	"	6'-3"	12	——	113
#3B7	#3	"	6'-3"	12	——	28
#3B8	#3	"	21'-6"	6	——	69
#3B9	#3	"	12'-0"	6	——	27
#3B10	#3	"	8'-6"	4	——	19
#5C1	#5	Side Walls	8'-0"	26	——	217
#5C2	#5	"	8'-3"	6	——	52
#4C3	#4	"	9'-6"	6	——	86
#4C4	#4	"	10'-3"	6	——	92
#4C5	#4	"	11'-3"	6	——	101
#4C6	#4	"	3'-6"	2	—	5
#4C7	#4	"	9'-6"	2	——	13
#4C8	#4	"	14'-0"	4	——	37
#4C9	#4	"	20'-6	10	——	177
#3C10	#3	"	8'-0"	16	——	48
#3C11	#3	"	8'-9"	4	——	13
#3C12	#3	"	9'-9"	8	——	15
#3C13	#3	"	11'-0"	2	——	8
#3C14	#3	"	11'-6"	4	——	17
#3C15	#3	"	4'-3"	2	—	3
#3C16	#3	"	9'-9"	2	——	7
#3C18	#3	"	20'-6"	10	——	100
#4D1	#4	Toewall	26'-6"	4	——	71
#4F1	#4	Corners	4'-0"	10	L	27
#4F2	#4	"	4'-0"	14	J	37
Total						6131



#5A5



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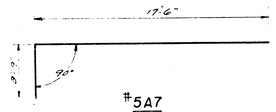

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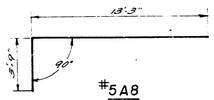

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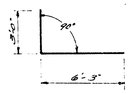
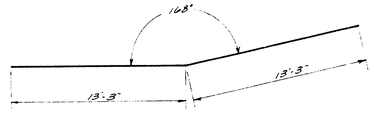
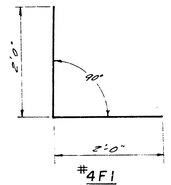


#5A13 & #6A14



#4C9 & #3C18



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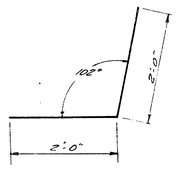
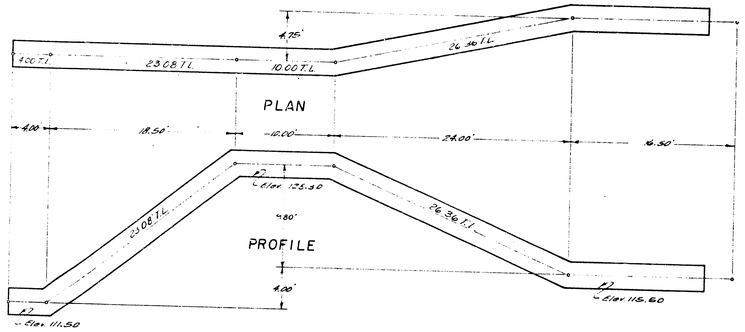


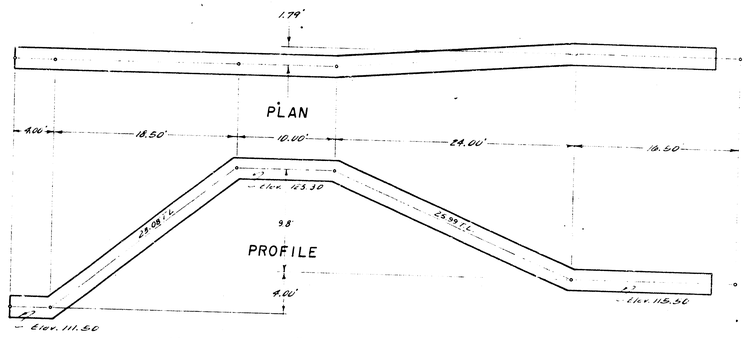
#4F2

OUTFALL STRUCTURE
BAR SCHEDULE
C29-106 SHEET 14 OF 18



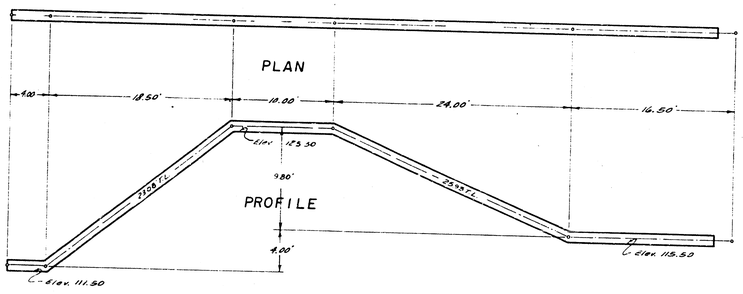
LINE NO. 1 – 30" STEEL PIPE

Scale 3/16" = 1'-0"



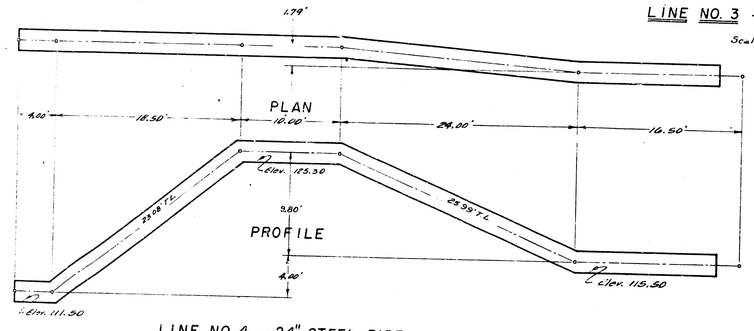
LINE NO. 2 – 24" STEEL PIPE

Scale 3/16" = 1'-0"



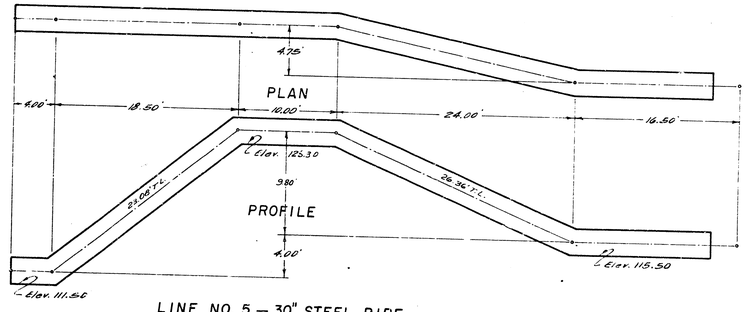
LINE NO. 3 – 12" STEEL PIPE

Scale 3/16" = 1'-0"



LINE NO. 4 – 24" STEEL PIPE

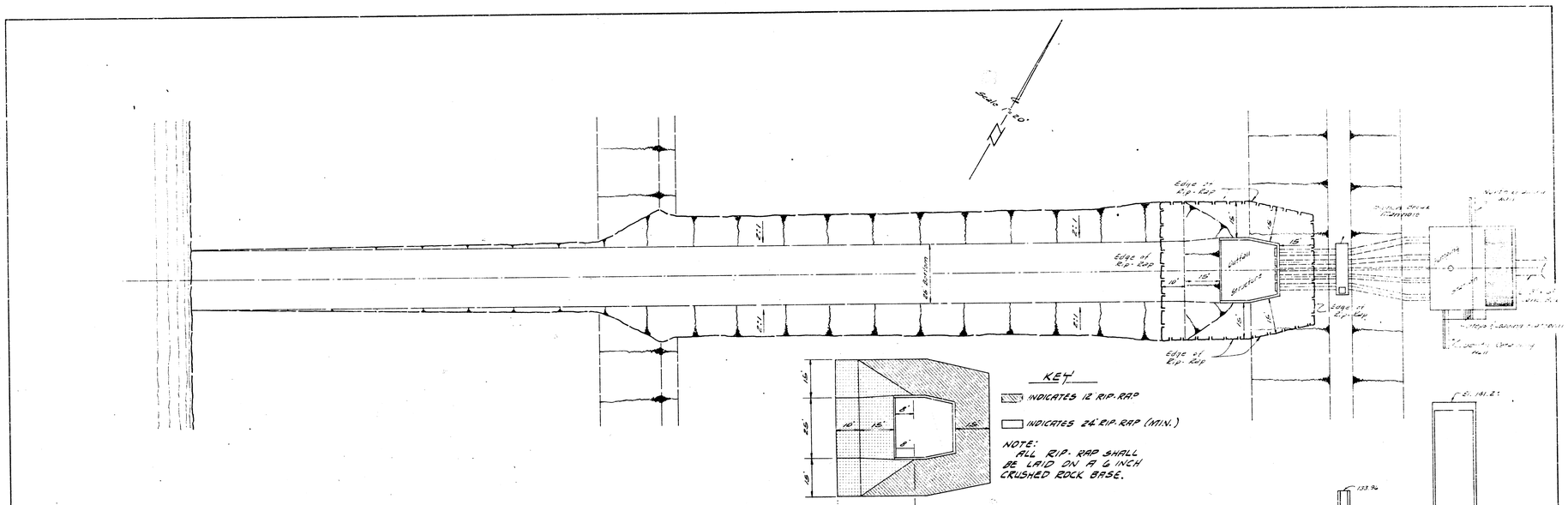
Scale 3/16" = 1'-0"



LINE NO. 5 – 30" STEEL PIPE

Scale 3/16" = 1'-0"

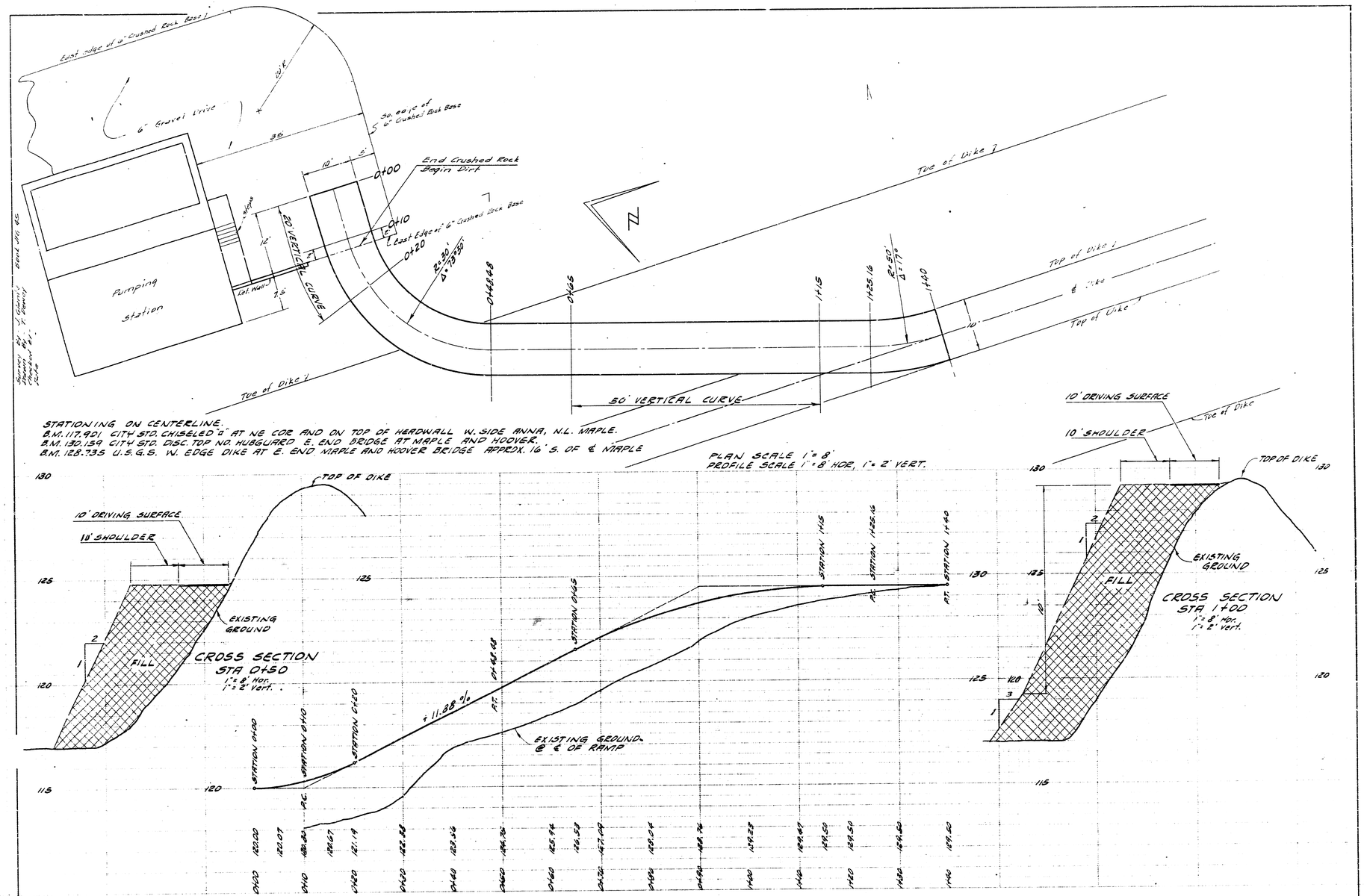
DETAIL OF DISCHARGE LINES
C29-106 SHEET 15 OF 18



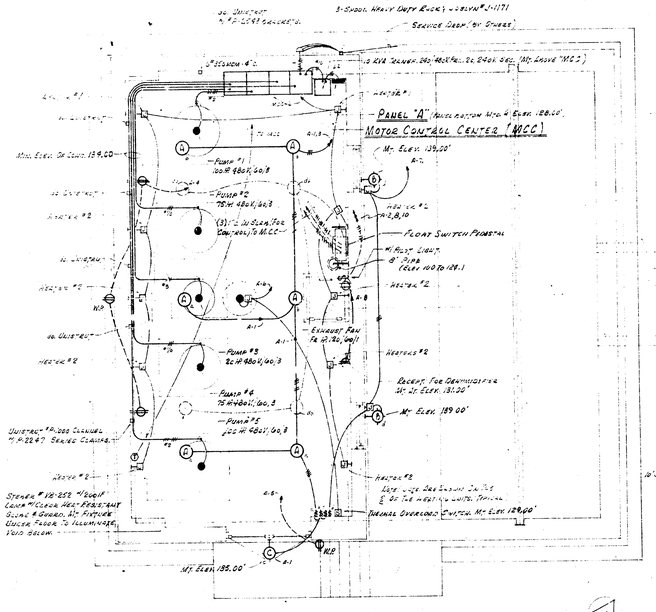
B.M. 117.901 CITY STD. CHISELED "O" AT NE COR. AND ON TOP OF HEADWALL W. SIDE ANNA, NL MAPLE.
B.M. 130.159 CITY STD. DISC. TOP NORTH HUBGUIRED E. END BRIDGE AT MAPLE & HOOVER.
B.M. 128.735 U.S.G.S. W. EDGE DIKE AT E. END MAPLE AND HOOVER BRIDGE APPROX. 16' S. OF ℄ MAPLE

PLAN & PROFILE OF PUMP DISCHARGE STRUCTURE & DITCH

C29-106 SHEET 16 OF 18

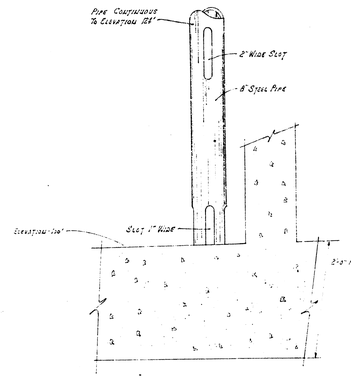


PLAN & PROFILE OF RAMP
C29-106 SHEET 17 OF 18



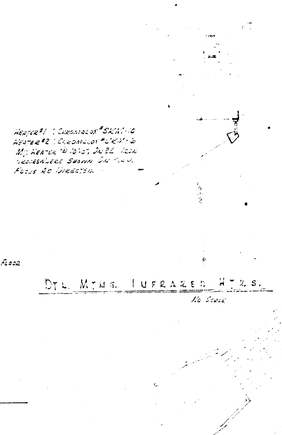
FLOOR PLAN

SCALE 1/8"=1'-0"



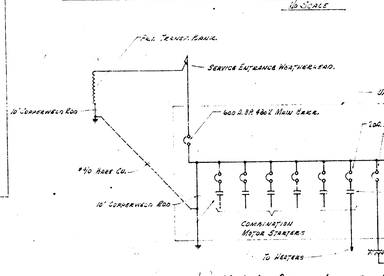
DTL. OF FLOAT COLUMN

No Scale



DTL MTG. INFRARED HTRS.

No Scale



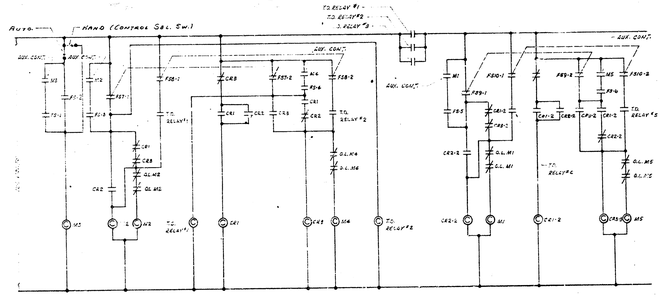
SERVICE & M.C.C. ONE LINE DIAG.

No Scale

PLOT PLAN

SCALE 1" = 25'-0"

— Note: Four Motor Starters For 100 HP Units Shall Be Incensmit, Star, Type.



PUMP CONTROL DIAGRAM

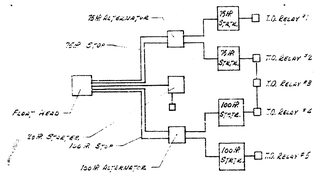
No Scale

LEGEND

M1 25 HP Pump
M2 75 HP Pump
M4 75 HP Pump
M3 100 HP Pump
M5 100 HP Pump
FS Float Switch (1 ½ HP Switch Core Cutting Water Level)
OL Overload
CR1 Alternator #1
CR2 & CR3 Used in Alternate #2
C Operating Coil
Normally Open Contact
Normally Closed Contact
Mechanically Connected Contact (2-Pole Control)

CLOSING ELEVATIONS OF FLOAT SWITCH CONTACTS

FS-1	100.00'
FS-2	102.00'
FS-3	106.50'
FS-4	106.75'
FS-5	107.00'
FS-6	107.25'
FS7-1,2	109.50'
FS8-1,2	111.50'
FS9-1,2	114.50'
FS10-1,2	115.00'



BLOCK DIAG. PUMP CONTROL

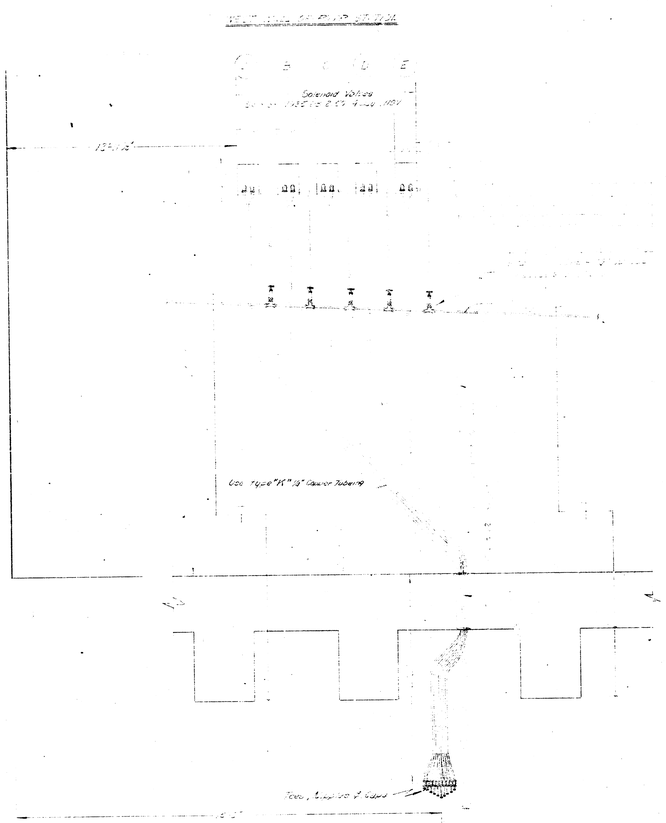
PANEL "A"

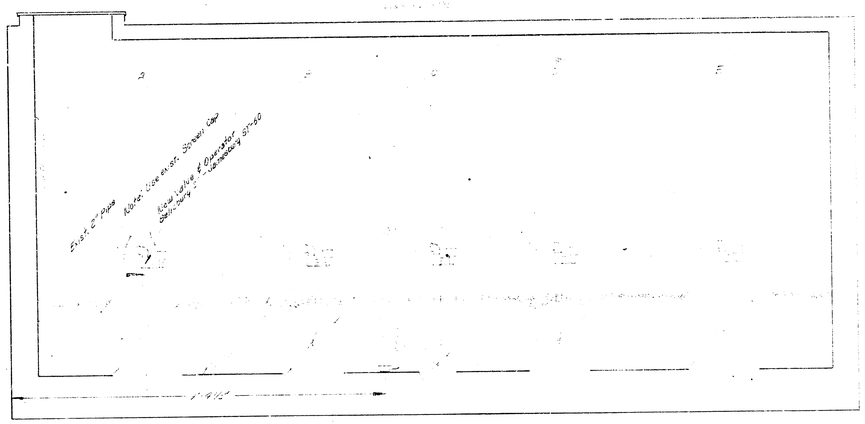
No.	Breaker Ratings	Watts	Load.
1	20A.1P-Main Bkr.	1100	Lts.
2		1000	Recept.
3		900	Lts.
4		720	Recept.
5		900	Relays
6		800	Gen. Fac.
7		1500	El. Htr.
8		1000	Ventilator
9		—	Spare
10		800	Lts.
11		—	Spare Cct.
12		—	Spare Cct.

SYMBOL LIST

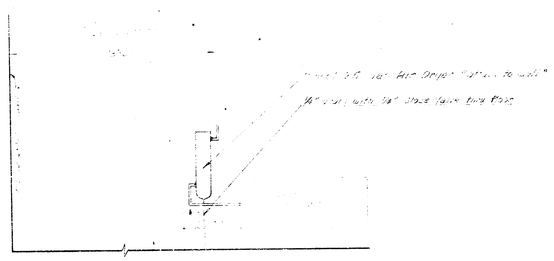
Symbol	Description
A	Interval Timer "Tork" Cat. 8133 PB Style, No. 1 Relay
B	Ground Relay "Struna" ICS-1 with Flame Out Thermostat
C	Interval Timer "Abbenaire" 420 - 20A Time, Mt. to Suit.
	Duplex Grounded Receptacle Mt. 2 ft. Above Floor
S	Wall Switch, 1 Pole, Mt. 4 ft. Above Floor
c	Ceiling Outlet - No Lamp
M	Motor
J	Junction Box
T	Thermostat Mt. 5 ft. Above Floor
	Conduit Run in Slab or Below Grade
	Conduit Run (2) Wires, No. 8 AWG in ½" Dia. Conduit
N.R.	Not in This Project

PUMPING STATION
ELECTRICAL LAYOUT
C29-106 SHEET 18 OF 18









PUMP STATION FOR S.W.S. 70

SYPHON VALVE LAYOUT

OCT. 1962 C29-106