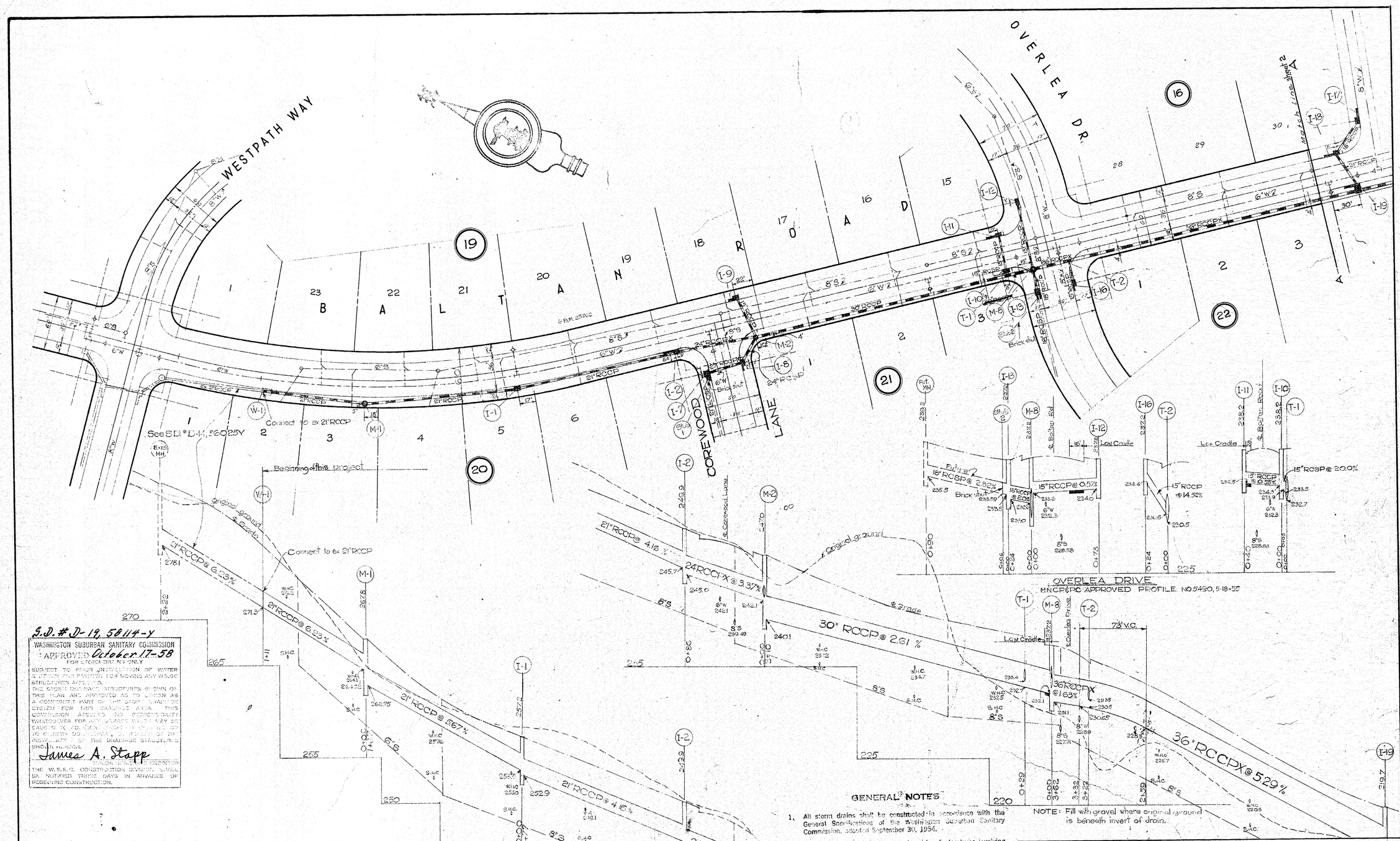

S.D. # D-19, 58114-Y

WASHINGTON SUBURBAN SANITARY COMMISSION
APPROVED October 17-58
FOR STORM DRAINS ONLY

SUBJECT TO PRIOR INSTALLATION OF WATER & SEWER AND PAYMENT FOR MOVING ANY W.S.S.C. STRUCTURES ADJUSTED.
THE STORM DRAINAGE STRUCTURES SHOWN ON THIS PLAN ARE APPROVED AS TO DESIGN AS A COMPONENT PART OF THE STORM DRAINAGE SYSTEM FOR THIS DRAINAGE AREA. THIS COMMISSION ASSUMES NO RESPONSIBILITY WHATSOEVER FOR ANY DAMAGE WHICH MAY BE CAUSED TO ADJACENT PROPERTY OR RESULT OF THE INSTALLATION OF THE DRAINAGE STRUCTURES SHOWN HEREON.

James A. Stapp
SENIOR DIRECTOR ENGINEER

THE W.S.S.C. CONSTRUCTION DIVISION SHALL BE NOTIFIED THREE DAYS IN ADVANCE OF BEGINNING CONSTRUCTION.

GENERAL NOTES

1. All storm drains shall be constructed in accordance with the General Specifications of the Washington Suburban Sanitary Commission, adopted September 30, 1954.
2. Steps shall be provided in the channels of structures involving pipes larger than 27" in accordance with the Washington Suburban Sanitary Commission's Standard Detail.
3. Types of structures refer to the Washington Suburban Sanitary Commission's Standard Storm Drainage Details unless otherwise noted.
4. Information concerning underground utilities was obtained from available records, but the Contractor must determine the exact location and elevation of the mains by digging test pits by hand at all utility crossings well in advance of trenching.

NOTE: Fill with gravel where original ground is beneath invert of drain.

MONTGOMERY COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

FINAL APPROVAL

Date: _____
By: _____

File No.	STORM DRAIN PLAN SUMNER BALTAN ROAD, SCARSDALE DR., & FORT SUMNER DR MONTGOMERY COUNTY, MARYLAND
Sheet 1 of 4	
W.C. & A.N. MILLER DEVELOPMENT CO. 4325-49th STR., N.W. WASHINGTON, D.C.	Maddox & Hopkins Civil Engineers SILVER SPRING, MD.
	Scale: 1"=50' Date: 5-28 1957 Design: A.E. Drawn: T.R.

CE487-367-1

SD FILE NO. 371

S.D. # D-19, 58114-7

WASHINGTON SUBURBAN SANITARY COMMISSION
APPROVED October 17-58
FOR STORM DRAINS ONLY
James A. Stapp
SENIOR DESIGNING ENGINEER
THE W.S.S.C. CONSTRUCTION DIVISION SHALL BE NOTIFIED THREE DAYS IN ADVANCE OF BEGINNING CONSTRUCTION.

GENERAL NOTES

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MONTGOMERY COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

FINAL APPROVAL

Date: ______

By: ______

File No.

Sheet 2 of 4

W.C.&A.N. MILLER DEVELOPMENT CO.
4325-49th STR, N.W.
WASHINGTON, D.C.

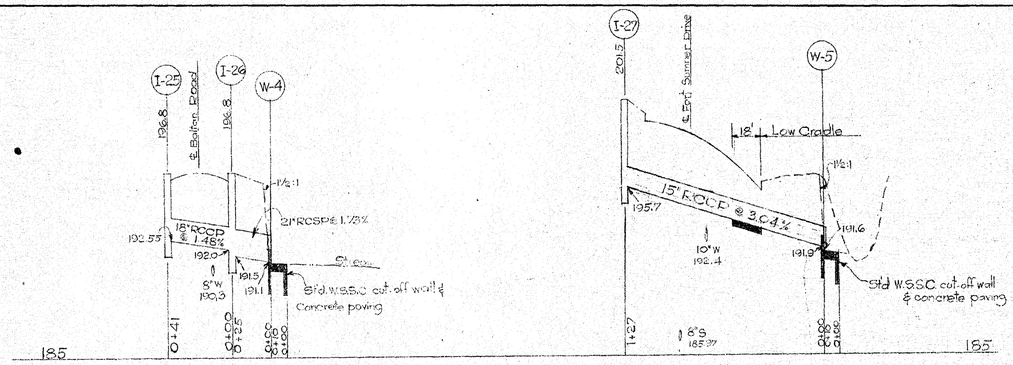
STORM DRAIN PLAN
SUMNER
BALTAN ROAD, SCARSDALE DR., & FORT SUMNER DR.
MONTGOMERY COUNTY, MARYLAND

Maddox & Hopkins
Civil Engineers
SILVER SPRING, MD.

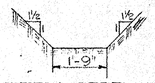
Scale: 1"=50'
Date: 5-28 1957
Design: A.Z.
Drawn: G.R.

CE487-367-2

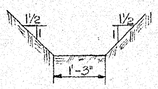
SD FILE NO. 371



SCARSDALE ROAD & FORT SUMNER DRIVE
M.N.C.P.&P.C. APPROVED PROFILE NO. 3184, 7-16-57 & No. 3800, 7-16-57



DITCH SECTION
AT W-4
No scale

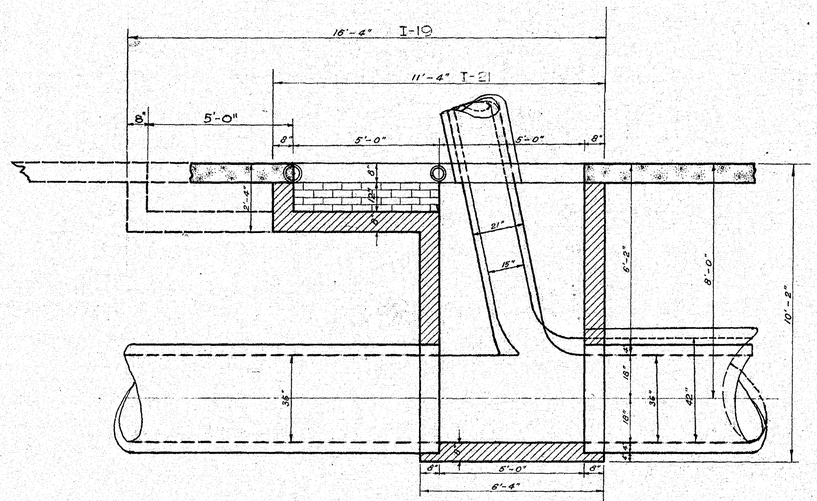


DITCH SECTION
AT W-5
No Scale

STRUCTURE SCHEDULE			
No	Type	Top El.	Remarks
I-1	A-8	257.2	Std W.S.S.C. Detail
I-2	F-2	249.9	" " "
I-7	B-2	249.14	" " "
I-8	B-1	248.96	" " "
I-9	B-1	247.15	" " "
I-10	A-1	238.2	" " "
I-11	F-1	238.2	" " "
I-12	A-1	237.2	" " "
I-13	B-2	237.2	" " "
I-16	B-1	237.2	" " "
I-17	F-1	218.6	" " "
I-18	F-1	219.9	" " "
I-19	Special F	219.7	See Detail Sheet 3
I-21	Special B	207.2	" " "
I-22	F-1	207.3	Std W.S.S.C. Detail
I-25	B-1	196.8	" " "
I-26	B-1	196.8	" " "
I-27	F-1	201.5	" " "
M-1	B-48"	267.8	" " "
M-2	B-48"	247.0	" " "
M-8	B-48"	257.2	" " "
T-1	15"x30"	Field Connection	
T-2	15"x36"	" "	
T-3	15"x36"	" "	
W-2	Special cut-off wall with flow gate See sheet 4		
W-4	Std W.S.S.C. cut-off wall & concrete paving		
W-5	" " " " "		

PIPE SCHEDULE			
Dia	Line	Lgth	ASTM Design
15"	I-9 to M-2	43'	RCCP
15"	I-11 to I-10	36'	" "
15"	I-10 to T-1	4'	RCSP
15"	I-12 to M-8	69'	RCCP
15"	I-16 to T-2	22'	"
18"	I-17 to I-18	37'	"
15"	Stub 3 to T-3	4'	"
15"	I-22 to I-21	38'	"
15"	I-27 to W-5	125'	"
18"	Stub 2 to I-13	4'	RCSP
18"	I-13 to M-8	20'	RCCP
18"	I-25 to I-26	37'	"
21"	W-4 to M-1	109'	"
21"	M-1 to I-1	163'	"
21"	I-1 to I-2	173'	"
21"	Stub to I-7	4'	RCSP
21"	I-18 to I-19	39'	RCCP
21"	I-26 to W-4	23'	RCSP
24"	I-2 to M-2	82'	RCCPX
24"	I-8 to M-2	25'	RCSP
27"	I-7 to I-8	36'	RCCPX
30"	M-2 to M-8	306'	RCCP
36"	M-8 to I-19	358'	RCCPX
36"	I-19 to I-21	396'	RCSP
42"	I-21 to W-2	105'	RCCP
		4'	RCSP
15"		337'	RCCP
15"		4'	RCSP
18"		94'	RCCP
21"		27'	RCSP
21"		484'	RCCP
24"		25'	RCSP
24"		82'	RCCPX
27"		36'	"
30"		306'	RCCP
36"		396'	RCSP
36"		358'	RCCPX
42"		105'	RCCP

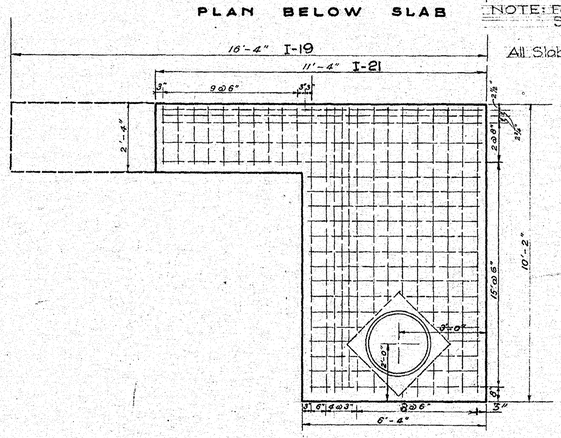
Total length of pipes



PLAN BELOW SLAB

NOTE: For Details not shown see Std W.S.S.C Type B & F Inlets.

All Slab Reinforcing ½" ℄ Bars.



SLAB
Scale: ⅜"=1'-0"

SPECIAL INLETS I-19 & I-21

S.D. # D-19, 58114-Y

WASHINGTON SUBURBAN SANITARY COMMISSION
APPROVED October 17-58
FOR STORM DRAINS ONLY
SUBJECT TO PRIOR INSTALLATION OF WATER & SEWER AND PAVING FOR NON-STANDARD W.S.S.C. STRUCTURES AFFECTED.
THIS STORM DRAINAGE STRUCTURES SHOWN ON THIS PLAN ARE APPROVED AS TO DESIGN AS A COMPONENT PART OF THE SUBDIVISION DRAINAGE SYSTEM ONLY & THIS APPROVAL SHALL NOT BE CONSTRUED TO BE A WAIVER OF THE RIGHT OF THE W.S.S.C. OR ANY OTHER AGENCY HAVING JURISDICTION TO REQUIRE CHANGES IN THE DESIGN OF THE STORM DRAINAGE STRUCTURES SHOWN HEREON.
James A. Stapp
CHIEF ENGINEER
THE W.S.S.C. CONSTRUCTION DIVISION SHALL BE NOTIFIED THREE DAYS IN ADVANCE OF BEGINNING CONSTRUCTION.

GENERAL NOTES

1. All storm drains shall be constructed in accordance with the General Specifications of the Washington Suburban Sanitary Commission, adopted September 30, 1954.
2. Steps shall be provided in the channels of structures involving pipes larger than 27" in accordance with the Washington Suburban Sanitary Commission's Standard Detail.
3. Types of structures refer to the Washington Suburban Sanitary Commission's Standard Storm Drainage Details unless otherwise noted.
4. Information concerning underground utilities was obtained from available records, but the Contractor must determine the exact location and elevation of the mains by digging test pits by hand at all utility crossings well in advance of trenching.

MONTGOMERY COUNTY, MARYLAND
DEPARTMENT OF PUBLIC WORKS

FINAL APPROVAL

Date: _____

By: _____

File No. _____

Sheet 3 of 4

STORM DRAIN PLAN
SUMNER
BALTAN RD., SCARSDALE DR., & FORT SUMNER DR.
MONTGOMERY COUNTY, MARYLAND

WC & AN. MILLER DEVELOPMENT CO.
4325-49th STR., N.W.
WASHINGTON, D.C.

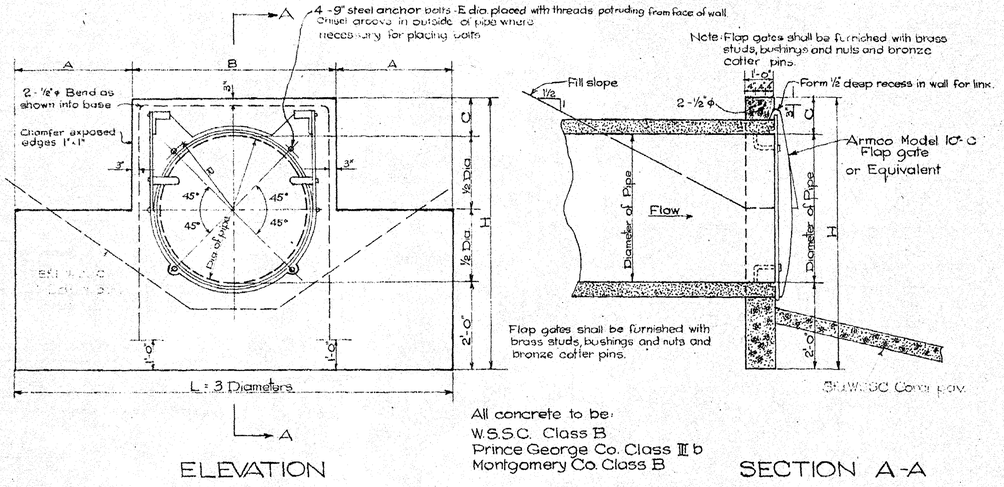
MADDOX & HOPKINS
CIVIL ENGINEERS
SILVER SPRING, MD.

Scale: Horiz. 50' Vert. 5'
Date: August, 1958
Design: A.Z.
Drawn: I.R. & A.Z.

CE487-367-3

SD FILE NO. 371

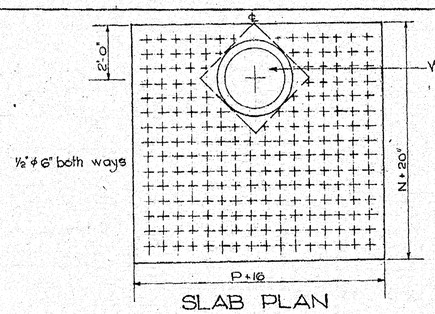
Maryland State Archives



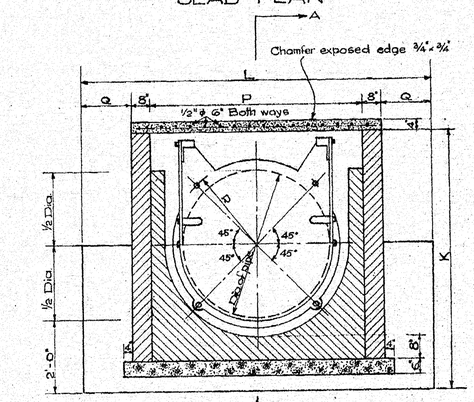
ELEVATION

All concrete to be:
W.S.S.C. Class B
Prince George Co. Class III b
Montgomery Co. Class B

SECTION A-A

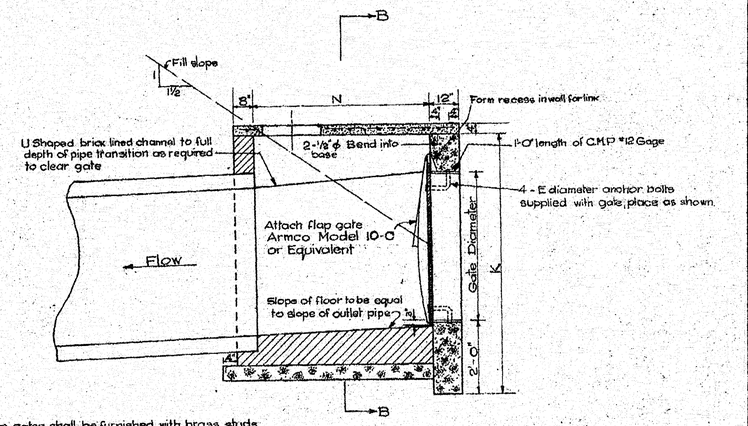


SLAB PLAN



Parge exposed portion of brick walls.

SECTION B-B



Flap gates shall be furnished with brass studs, bushings and nuts and bronze cotter pins.

All concrete to be:
W.S.S.C. Class B
Prince George's County Class III b
Montgomery County Class B

SECTION A-A

SPECIAL CUT OFF WALLS WITH FLAP GATE AT OUTLET

NO SCALE

GATE DIAM.	A	B	C	H	L	R	E	CU. YD CONCR.
15"	7½"	2'-6"	1'-0"	4'-3"	3'-9"	8⅞"	½"	0.47
18"	9"	3'-0"	1'-0"	4'-6"	4'-6"	10½"	⅝"	0.60
21"	10½"	3'-6"	1'-0"	4'-9"	5'-3"	12⅛"	⅝"	0.66
24"	1'-0"	4'-0"	1'-0"	5'-0"	6'-0"	13¾"	⅝"	0.85
Use 30" Flap Gate → 27"	1'-1½"	4'-3"	1'-0"	5'-3"	6'-6"	17"	¾"	1.1
30"	1'-6"	4'-6"	1'-0"	5'-6"	7'-6"	17"	¾"	1.1
Use 36" Flap Gate → 33"	1'-6"	4'-9"	1'-0"	5'-9"	7'-9"	20⅞"	¾"	1.4
36"	2'-0"	5'-0"	1'-0"	6'-0"	9'-0"	20⅞"	¾"	1.4
W-2 → 42"	2'-6"	5'-6"	1'-0"	6'-6"	10'-6"	23½"	¾"	1.7
48"	3'-0"	6'-0"	1'-3"	7'-3"	12'-0"	27"	¾"	2.0
54"	3'-6"	6'-6"	1'-3"	7'-9"	13'-6"	31⅛"	1"	2.4
60"	4'-0"	7'-6"	1'-3"	8'-3"	15'-0"	34½"	1"	2.7
66"	4'-6"	8'-0"	1'-3"	8'-9"	16'-6"	37⅛"	1"	3.0
72"	5'-0"	8'-6"	1'-3"	9'-3"	18'-0"	41"	1"	3.4
78"	5'-6"	9'-0"	1'-3"	9'-9"	19'-6"	44⅜"	1"	3.7
84"	6'-0"	9'-6"	1'-3"	10'-3"	21'-0"	47¾"	1"	4.0
96"	6'-6"	10'-0"	1'-3"	11'-3"	24'-0"	51¼"	1¼"	5.6

SPECIAL CUT OFF WALL WITH FLAP GATE AT ENTRANCE

NO SCALE

GATE DIAM.	E	L	K	N	P	Q	R	CU. YD CONCR.
15"	½"	3'-10"	4'-0"	2'-0"	2'-6"	0'-0"	8⅞"	0.94
18"	⅝"	4'-4"	4'-3"	2'-3"	3'-0"	0'-0"	10½"	1.10
21"	⅝"	5'-3"	4'-6"	2'-9"	3'-3"	0'-4"	12⅛"	1.35
24"	⅝"	6'-0"	4'-9"	3'-0"	3'-6"	0'-7"	13¾"	1.55
Use 30" Flap Gate → 27"	¾"	7'-6"	5'-3"	3'-6"	4'-0"	1'-1"	17"	1.95
30"	¾"	7'-6"	5'-3"	3'-6"	4'-0"	1'-1"	17"	1.95
Use 36" Flap Gate → 33"	¾"	9'-0"	5'-9"	4'-0"	4'-6"	1'-7"	20⅞"	2.39
36"	¾"	9'-0"	5'-9"	4'-0"	4'-6"	1'-7"	20⅞"	2.39
42"	¾"	10'-6"	6'-6"	4'-8"	5'-0"	2'-1"	23½"	2.97
48"	¾"	12'-0"	7'-2"	5'-4"	5'-6"	2'-7"	27"	3.56
54"	1"	13'-6"	7'-10"	5'-9"	6'-0"	3'-1"	31⅛"	4.22
60"	1"	15'-0"	8'-4"	6'-6"	6'-8"	3'-6"	34¼"	4.92
66"	1"	16'-6"	9'-0"	7'-3"	7'-4"	3'-11"	37⅛"	
72"	1"	18'-0"	9'-8"	8'-0"	8'-0"	4'-4"	41"	
78"	1"	19'-6"	10'-4"	8'-8"	8'-6"	4'-9"	44⅜"	
84"	1"	21'-0"	11'-0"	9'-1"	9'-2"	5'-2"	47¾"	
96"	1¼"	24'-0"	12'-4"	10'-7"	10'-6"	6'-0"	51¼"	

S.D. # D-19, 58114-Y

WASHINGTON SUBURBAN SANITARY COMMISSION
APPROVED October 17-58
FOR STORM DRAINS ONLY
James A. Stapp
SENIOR DESIGNING ENGINEER

File No.	STORM DRAIN PLAN
Sheet 4 of 4	SUMNER
	BALTAN RD, SCARSDALE DR. & FORT SUMNER DR.
	MONTGOMERY COUNTY, MARYLAND
WC&AN MILLER DEVELOPMENT CO. 4325-49th ST. N.W. WASHINGTON, D.C.	MADDOX & HOPKINS CIVIL ENGINEERS SILVER SPRING, MD.
	Scale: No Scale
	Date: 7-28-58
	Design:
	Drawn: A Zeger II

CE487-367-4

SD FILE NO. 371

Maryland State Archives