SD#D-28,62039-Y

WASHINGTON SUBURBAN SANITARY COMMISSION
APPROVED March 6, 1962
FOR STORM DRAINS ONLY

SUBJECT TO PRIOR INSTALLATION OF WATER & SEWER AND PAYMENT FOR MOVING ANY W.S.S.C. STRUCTURES AFFECTED.

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 OWNERS, OR TO OWNERS DOWNSTREAM, BY REASON OF THE INSTALLATION OF THE DRAINAGE STRUCTURES SHOWN HEREON.

John A. Mark
SENIOR DESIGNING ENGINEER

W-1

SD#D-29,62101 Y

WASHINGTON SUBURBAN SANITARY COMMISSION
APPROVED JUNE 22, 1962
FOR STORM DRAINS ONLY

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John A. Mark
SENIOR DESIGNING ENGINEER

Scale 1"=50'

Max length of pipe to be laid on curve to be 4'
Curve data:
Δ=41°
R=154'
T=57.58'
Arc=110.2'

HIDDEN CREEK ROAD
M.N.C.P.&P.C. PROFILE No 7568

HELMSDALE ROAD
M.N.C.P.&P.C. PROFILE No 6658

A
B
C

Ex. 24" ACCMP

15" RCCP

8" W.L.

6" W.L.

Ex. Stub

Ex. M-2

Ex. W-2

M-1

I-1

I-2

I-3

T-1

W-1

W-2

1
2
3
4

30'

35'

24'

15' Easement

Easement to Montgomery County

Existing Ground

Original

Brick shut

Scales on profiles:
Hor. 1"=50'
Ver. 1"=5'

15" RCCP @ 1.70%

15" RCCP @ 1.95%

NOTE: Extend footing of structure to firm ground.

Remove Bricks

HELMSDALE ROAD
M.N.C.P.&P.C. APPROVED PROFILE NO. 6658
* Provide bankrun gravel backfill as necessary to provide firm bearing.

27" RCCP X CLASS

Helmsdale Road

Manhole to have 12" Walls Below
El. 162.4

Asphalt coated and paved 24" CMP @ 7.33% Temp.

Std W.S.S.C. cutoff wall

Provide bankrun gravel backfill as necessary to provide firm bearing

27" RCCP @ 7.30% ASTM. DESIGN C76-59T

Ditch @ 1.86%

Std. W.S.S.C. cutoff wall & concrete paving

DITCH SECTION AT W-1
NO SCALE

Ditch Section of W-2
No Scale

PLAN

SECTION "A-A"

SECTION "B-B"

Concrete to be class 'B'

DETAIL OF VELOCITY CHECKS & PAVING
SCALE 1/4"=1'-0"

Paving to be curved. Centerline R of paving to be 25'

STRUCTURE SCHEDULE			
No	Type	Top El.	Remarks
I-1	A-15	172.00	Std. W.S.S.C. Detail
I-2	Modified C-1	172.00	See detail sheet 2
I-3	"	172.00	" " "
M-1	A-48"	174.45	Std W.S.S.C. Detail
T-1	15" x 27"	Field	connection
W-1	Std. W.S.S.C. cutoff wall & concr. paving		
W-2	Std. W.S.S.C. cutoff wall		

PIPE SCHEDULE				
Dia.	Line	Lgth	TYPE	
15"		176'	RCCP	Future
27"	Stub to M-1	135.2'	RCCPX	
27"	M-1 to W-1	21.5'	RCP CL V - ASTM C76-59T	Existing
24"	W-2 to M-1	30'	ACCMP Gage #14 asphalt coated & paved	

Existing

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. If clearances are less than shown on this plan or six(6) inches, whichever is less, contact the Storm Drain Section of the Washington Suburban Sanitary Commission before proceeding with construction.
5. All storm drainage construction shown on this plan to be maintained by Montgomery County, Md.

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WSE 1-22-62

File No. 61-1619
Sheet 1 of 2

STORM DRAIN PLAN
BANNOCKBURN ESTATES
HELMSDALE ROAD
MONTGOMERY COUNTY, MARYLAND

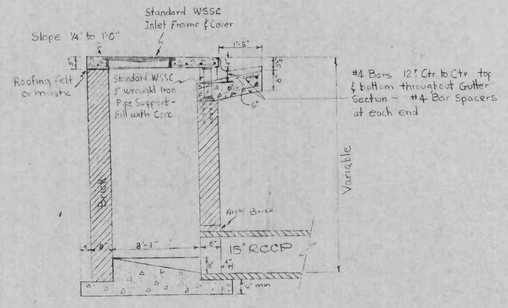
HENRY F. KIMBALL, JR.
5910 NAMAKAGAN RD
WASHINGTON 16, D.C.

MADDOX & HOPKINS
CIVIL ENGINEERS
SILVER SPRING

Scale: As shown
Date: December, 1961
Disign: A. Zagery

SD FILE NO. 681

CE487-669-1



SECTION A-A

SD #D-29,021.01 Y

WASHINGTON SUBURBAN SANITARY COMMISSION
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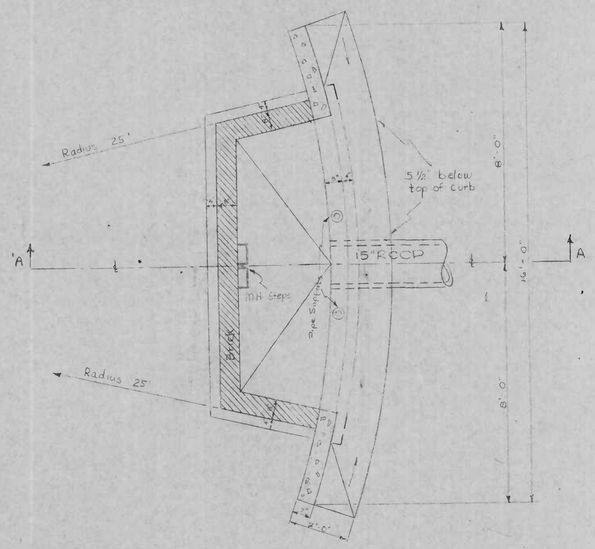
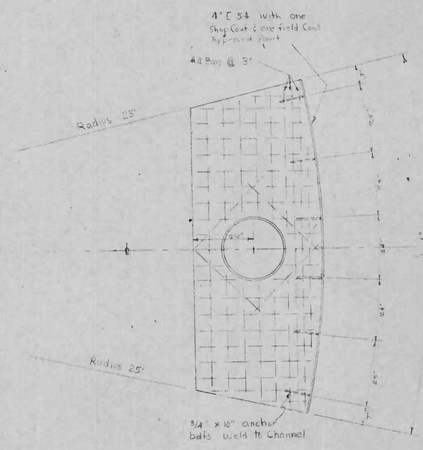
John A. Mark
SENIOR DESIGNING ENGINEER



PLAN BELOW SLAB



All Reinforcing #4 Bars All Spacing 6" Ctr to Ctr unless noted

SLAB

STORM DRAIN INLET - 10' THROAT
SCALE 3/8" = 1'0"

DETAIL OF INLETS I-2 & I-3

681

CE487-669-2

File No. 61-1619	STORM DRAIN PLAN BANNOCKBURN ESTATES HELMSDALE ROAD MONTGOMERY COUNTY, MARYLAND
Sheet 2 of 2	
HENRY F. KIMBALL, JR. 5910 NAMAKAGAN RD. WASHINGTON 16, D.C.	MADDOX & HOPKINS CIVIL ENGINEERS SILVER SPRING, MD.
	Scale: As shown Date: February, 1962 Design: D. Treadwell

SD FILE NO. 681