

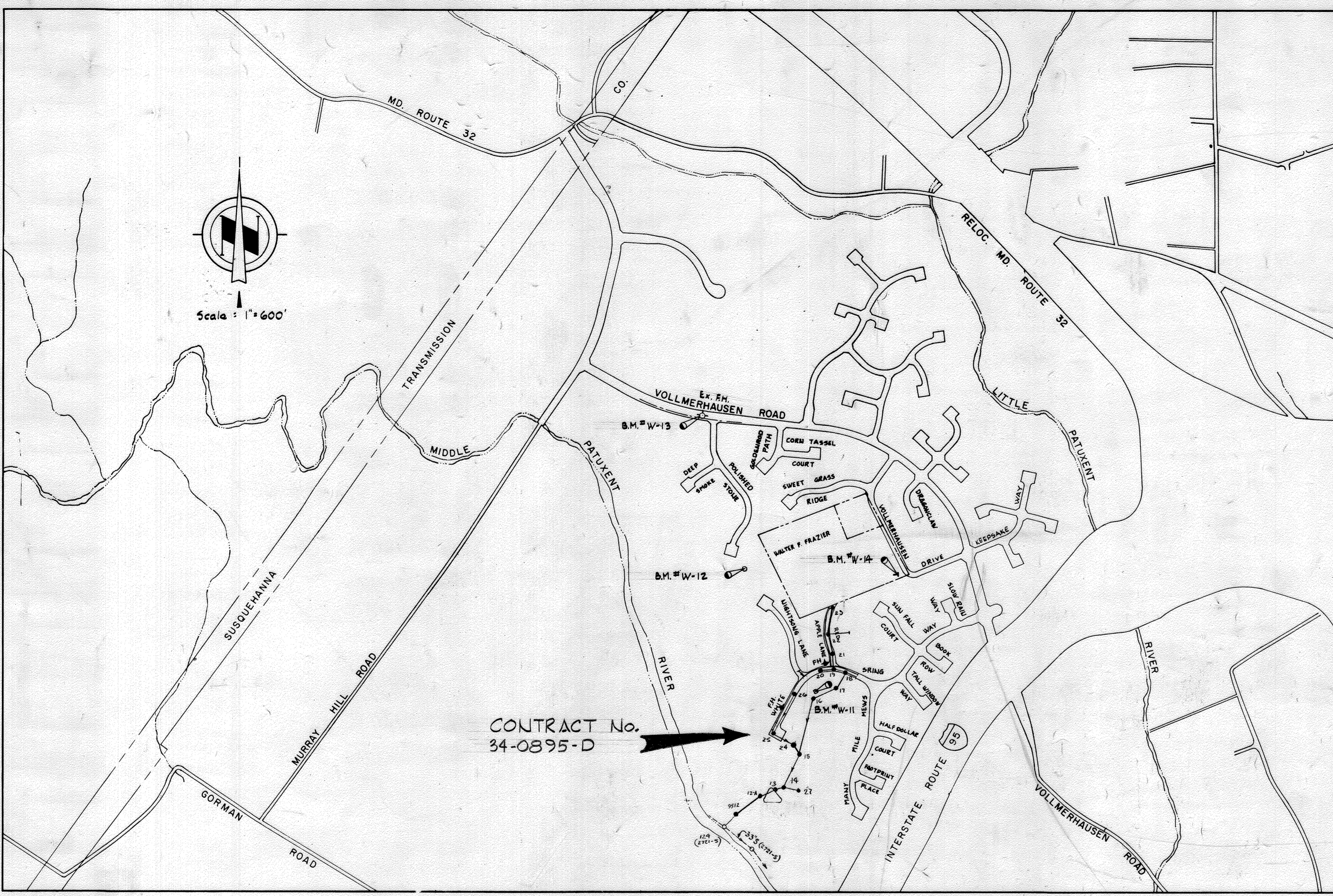
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

*James M. Helm* 7-24-80  
SIGNATURE DATE  
US SOIL CONSERVATION SERVICE

This Development Plan is approved for Soil Erosion and Sediment Control by the Howard County Conservation District.

APPROVED:  
*William J. Stone* 4/24/80  
HOWARD S.C.D. DATE

Sediment Control Measures for this Contract will be implemented in accordance with Section 14 of the Specifications.



Waste Water Disposal: Savage  
Type of buildings: Single Family  
No. of S.H.C. 30-30 6" SEWER  
No. of W.H.C. 30-30

WATER & SEWER CODE  
County Use:  
Water: E 15  
Sewer: G200000

# CONTRACT NO. 34-0895-D

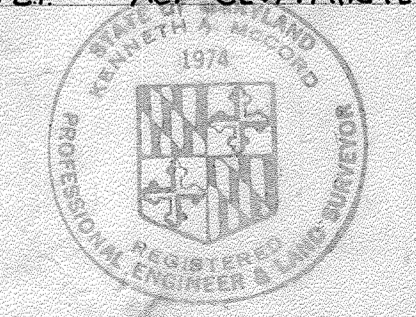
## VILLAGE OF KINGS CONTRIVANCE

### HOWARD COUNTY, MARYLAND

#### DEPARTMENT OF PUBLIC WORKS

QUANTITIES			
ITEM	BID	AS-BUILT	MATERIAL/SUPPLIER
8" Sewer	3,800 LF	3,800 LF	ACP/CERTAINTEED
Manholes	125 V.F.	117 UNITS	CONC. PRECAST C.C.P.
8" Water	460 LF	468 LF	D.T.P./ATLANTIC
6" Water	1,100 LF	1,123 LF	D.T.P./ATLANTIC
8" Valves	1	1	
6" V (Excluding F.H.V.)	2	2	
Fire Hydrants	2	2	AMERICAN
6" SEWER		558 LF	ACP/CERTAINTEED

NOTE:  
LOT LINES SHOWN HEREON DO NOT EXIST AND ARE SHOWN FOR PURPOSE OF LOCATING WATER AND SEWER HOUSE CONNECTIONS.



*Thomas M. ...*  
Village of Kings Contrivance  
Section 3, Area 2, Phase II, Part I  
Contract No. 34-0895-D

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James L. Blair* 4/27/80  
CHIEF-BUREAU OF UTILITIES - DATE

*William B. ...* 4-28-80  
CHIEF-BUREAU OF ENGINEERING - DATE

WHITMAN, REQUARDT & ASSOCIATES  
ENGINEERS  
1304 ST. PAUL ST.  
BALTIMORE, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*George F. ...*  
DIRECTOR OF PUBLIC WORKS

4-28-80  
DATE

CONTRACT NO. 34-0895-D

LOCATION MAP OF  
WATER & SEWER MAINS

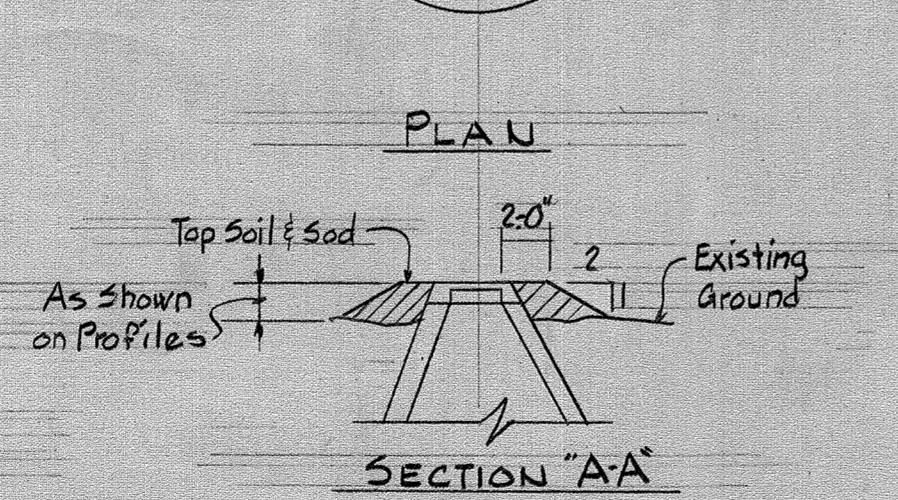
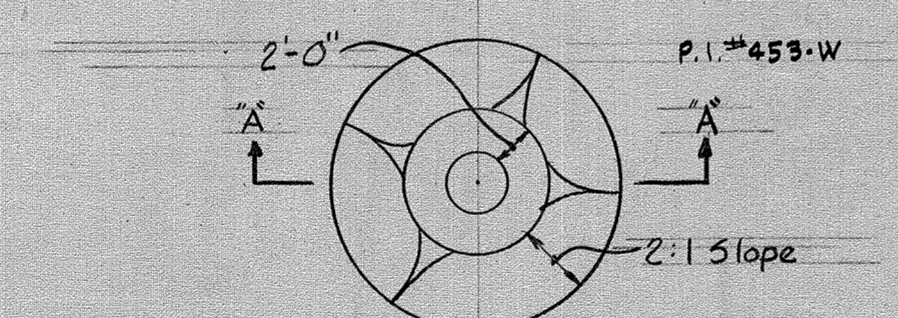
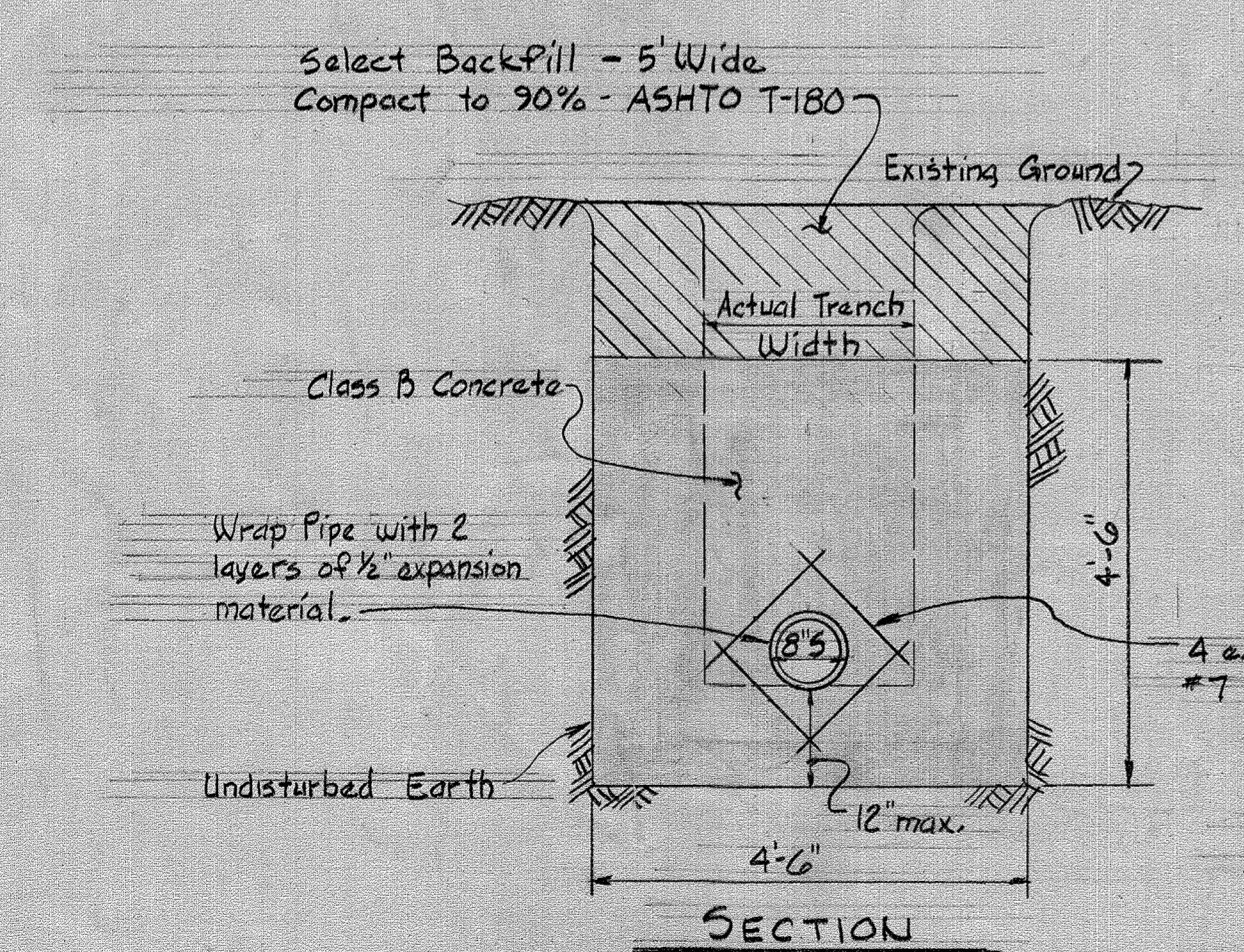
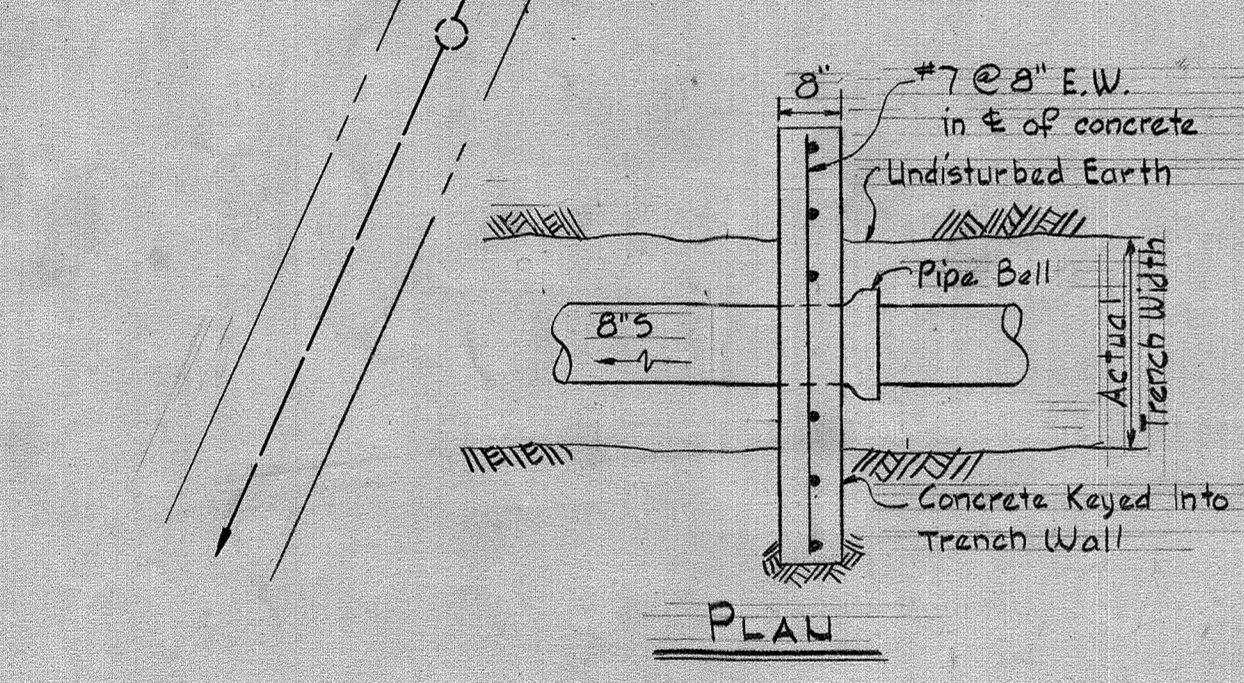
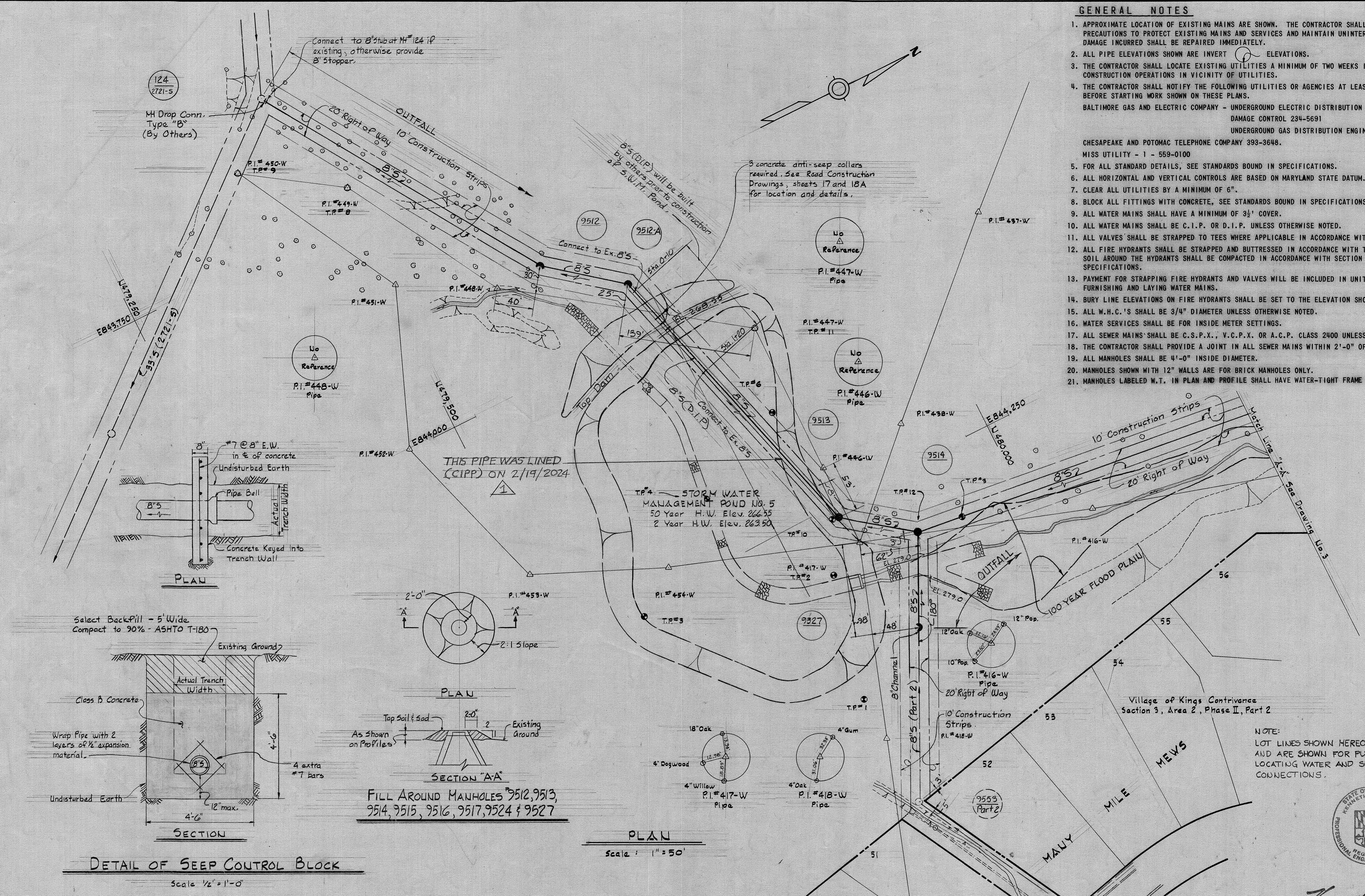
COLUMBIA  
VILLAGE OF KINGS CONTRIVANCE  
ELECTION DISTRICT GUILFORD NO. 6

DRAWING NO. 1 OF 4  
SCALE 1" = 600'

WS 895-WS/1

**GENERAL NOTES**

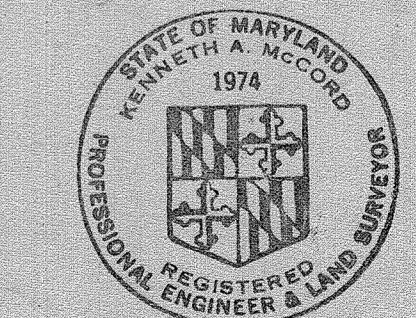
- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN VICINITY OF UTILITIES.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.  
BALTIMORE GAS AND ELECTRIC COMPANY - UNDERGROUND ELECTRIC DISTRIBUTION ENGINEERING DAMAGE CONTROL 234-5691  
UNDERGROUND GAS DISTRIBUTION ENGINEERING 234-5621  
CHESAPEAKE AND POTOMAC TELEPHONE COMPANY 393-3648.  
MISS UTILITY - 1 - 559-0100
- FOR ALL STANDARD DETAILS, SEE STANDARDS BOUND IN SPECIFICATIONS.
- ALL HORIZONTAL AND VERTICAL CONTROLS ARE BASED ON MARYLAND STATE DATUM.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6".
- BLOCK ALL FITTINGS WITH CONCRETE, SEE STANDARDS BOUND IN SPECIFICATIONS.
- ALL WATER MAINS SHALL HAVE A MINIMUM OF 3 1/2' COVER.
- ALL WATER MAINS SHALL BE C.I.P. OR D.I.P. UNLESS OTHERWISE NOTED.
- ALL VALVES SHALL BE STRAPPED TO TEES WHERE APPLICABLE IN ACCORDANCE WITH THE STANDARD DETAILS.
- ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED IN ACCORDANCE WITH THE STANDARD DETAILS. SOIL AROUND THE HYDRANTS SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 5-15 OF THE STANDARD SPECIFICATIONS.
- PAYMENT FOR STRAPPING FIRE HYDRANTS AND VALVES WILL BE INCLUDED IN UNIT PRICE BID FOR FURNISHING AND LAYING WATER MAINS.
- BURY LINE ELEVATIONS ON FIRE HYDRANTS SHALL BE SET TO THE ELEVATION SHOWN ON THE DRAWINGS.
- ALL W.H.C.'S SHALL BE 3/4" DIAMETER UNLESS OTHERWISE NOTED.
- WATER SERVICES SHALL BE FOR INSIDE METER SETTINGS.
- ALL SEWER MAINS SHALL BE C.S.P.X., V.C.P.X. OR A.C.P. CLASS 2400 UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALLS.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER.
- MANHOLES SHOWN WITH 12" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES LABELED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVER.



FILL AROUND MANHOLES 9512, 9513, 9514, 9515, 9516, 9517, 9524 & 9527

PLAN  
Scale: 1" = 50'

NOTE:  
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*Kenneth A. McLeod*

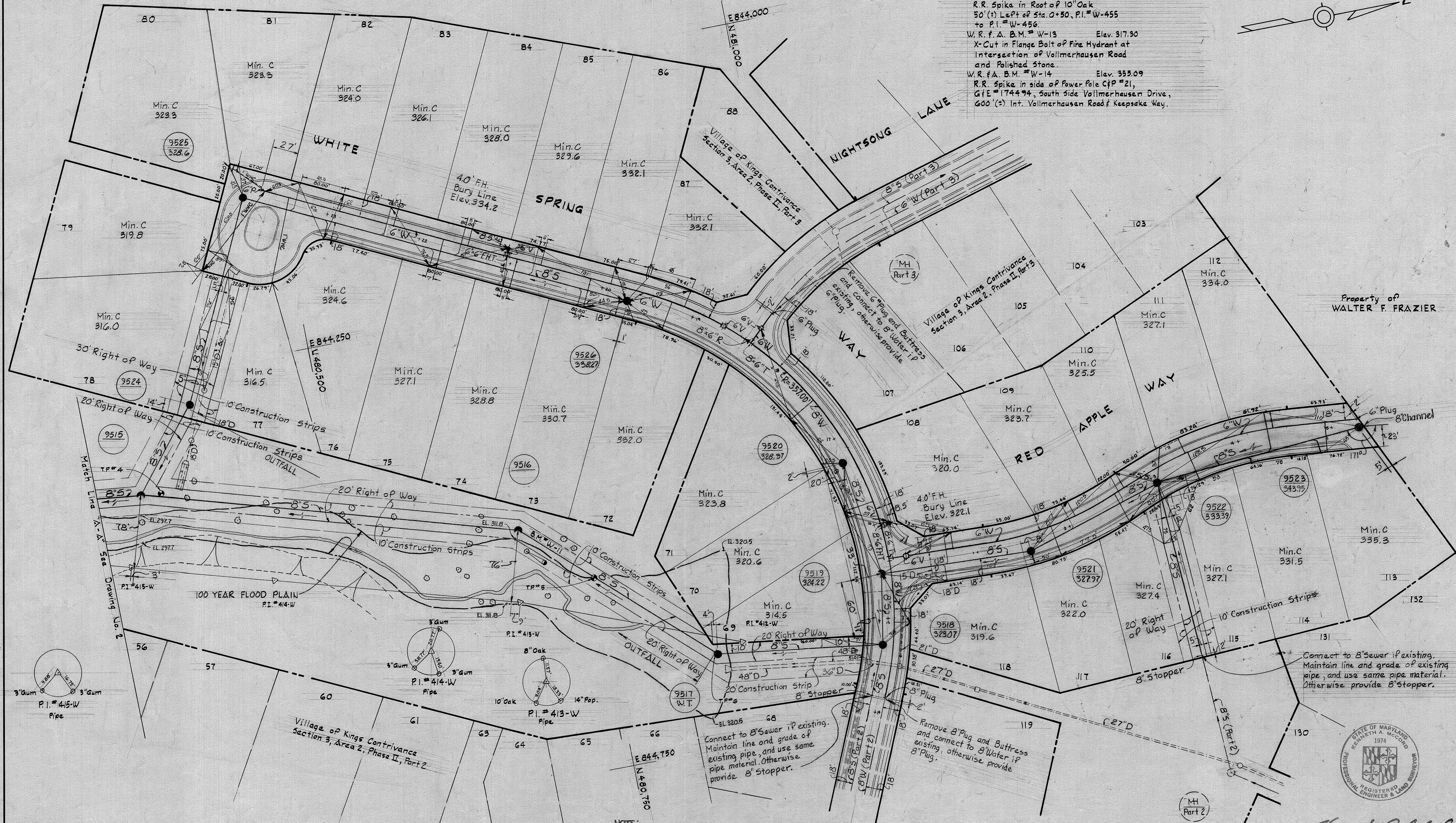
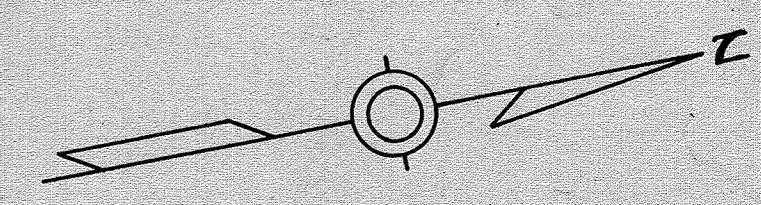
Village of Kings Contrivance  
Section 3, Area 2, Phase II, Part I  
Contract No. 34-0895-D

WS 895-W5/2

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>James L. Gligo</i> , 4/27/80 CHIEF-BUREAU OF UTILITIES - DATE <i>William E. Rea</i> , 4-28-80 CHIEF-BUREAU OF ENGINEERING - DATE	DATE	REVISION	DESCRIPTION	BY				
	5/10/24	1	CIPP LINED PIPE	SRK				
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 4-28-80 DATE <i>George F. Nemec</i> DIRECTOR OF PUBLIC WORKS		CONTRACT NO. 34-0895-D	PLAN & DETAIL OF WATER & SEWER MAINS	COLUMBIA VILLAGE OF KINGS CONTRIVANCE ELECTION DISTRICT GUILFORD NO.6	DRAWING NO. 2 OF 4	SCALE AS SHOWN	42-479-845 42-480-845

**BENCH MARKS**

- W.R. & A. B.M. #W-11 Elev. 314.43
- R.R. Spike in Root of 18" Oak
- 86' (±) Right of P.I. #W-413.
- W.R. & A. B.M. #W-12 Elev. 295.81
- R.R. Spike in Root of 10" Oak
- 50' (±) Left of Sta. 0+50, P.I. #W-455 to P.I. #W-456
- W.R. & A. B.M. #W-13 Elev. 317.30
- X-Cut in Flange Bolt of Fire Hydrant at Intersection of Vollmerhausen Road and Polished Stone.
- W.R. & A. B.M. #W-14 Elev. 355.09
- R.R. Spike in side of Power Pole C/P #21,
- G.F.E. #174474, South Side Vollmerhausen Drive,
- 600' (±) Int. Vollmerhausen Road & Keepsake Way.



Property of  
WALTER F. FRAZIER

Connect to 8" sewer if existing. Maintain line and grade of existing pipe, and use same pipe material. Otherwise provide 8" stopper.

Connect to 8" sewer if existing. Maintain line and grade of existing pipe, and use same pipe material. Otherwise provide 8" stopper.

Remove 8" plug and buttress existing, otherwise provide 8" plug.

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DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James L. Ellis* 4/27/80  
CHIEF-BUREAU OF UTILITIES—DATE

*Michael S. Reay* 4-28-80  
CHIEF-BUREAU OF ENGINEERING—DATE

WHITMAN, REQUARDT & ASSOCIATES  
ENGINEERS  
1304 ST. PAUL ST.  
BALTIMORE, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
4-28-80  
DATE

*Geoff F. Nemmy*  
DIRECTOR OF PUBLIC WORKS

CONTRACT NO. 34-0895-D

PLAN OF  
WATER & SEWER MAINS

COLUMBIA  
VILLAGE OF KINGS CONTRIVANCE  
ELECTION DISTRICT GUILFORD NO. 6

DRAWING  
NO. 3  
OF 4

SCALE  
1" = 50'

42-480-845

Village of Kings Contrivance  
Section 3, Area 2, Phase II, Part I  
Contract No. 34-0895-D

*Thomas A. McCord*  
REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR  
1974

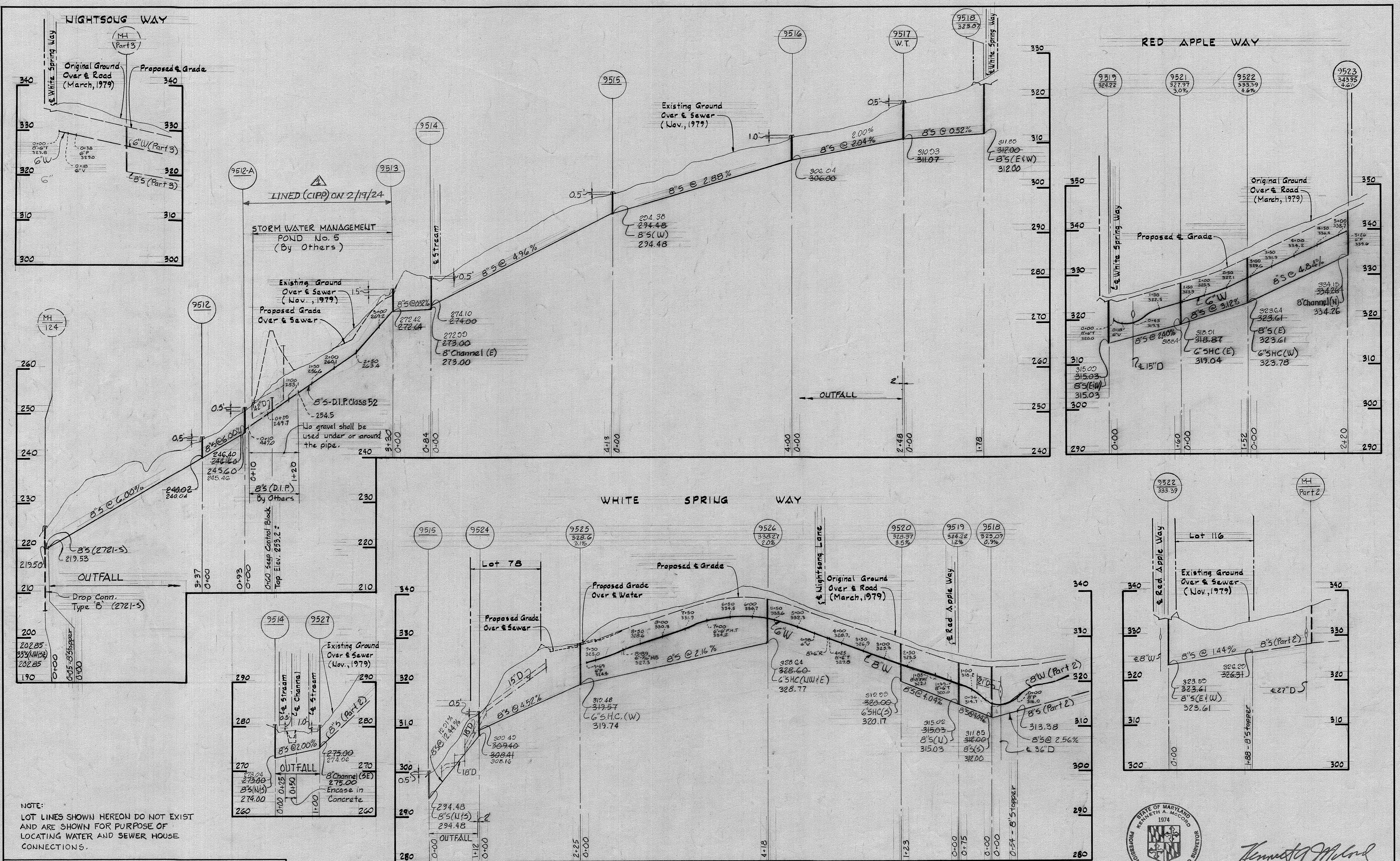
AS-BUILT MARCH 1981

FB #6345, FB #6349  
April 22, 1980

W.O. 7500-2

WS 895-WS/3

WS 895-WS/4



NOTE:  
LOT LINES SHOWN HEREON DO NOT EXIST  
AND ARE SHOWN FOR PURPOSE OF  
LOCATING WATER AND SEWER HOUSE  
CONNECTIONS.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*James L. Gligo* 4/1/80  
CHIEF-BUREAU OF UTILITIES — DATE

*William E. Roy* 4-28-80  
CHIEF-BUREAU OF ENGINEERING — DATE

WHITMAN, REQUARDT & ASSOCIATES  
ENGINEERS  
1304 ST. PAUL ST.  
BALTIMORE, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*W. F. Nemij*  
DIRECTOR OF PUBLIC WORKS

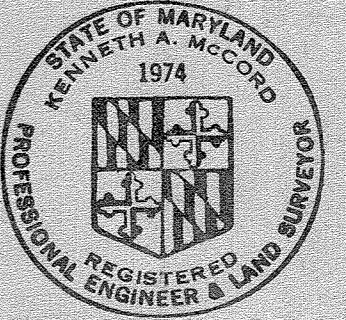
DATE	REVISION	DESCRIPTION	BY
5/10/24	1	CIPP LINED PIPE	SRK

CONTRACT NO. 34-0895-D

PROFILES OF  
WATER & SEWER MAINS

COLUMBIA  
VILLAGE OF KINGS CONTRIVANCE  
ELECTION DISTRICT GUILFORD NO. 6

DRAWING NO. 4 OF 4  
SCALE H:1"=100' V:1"=10'



*Kenneth A. McLeod*

Village of Kings Contrivance  
Section 3, Area 2, Phase II, Part I  
Contract No. 34-0895-D