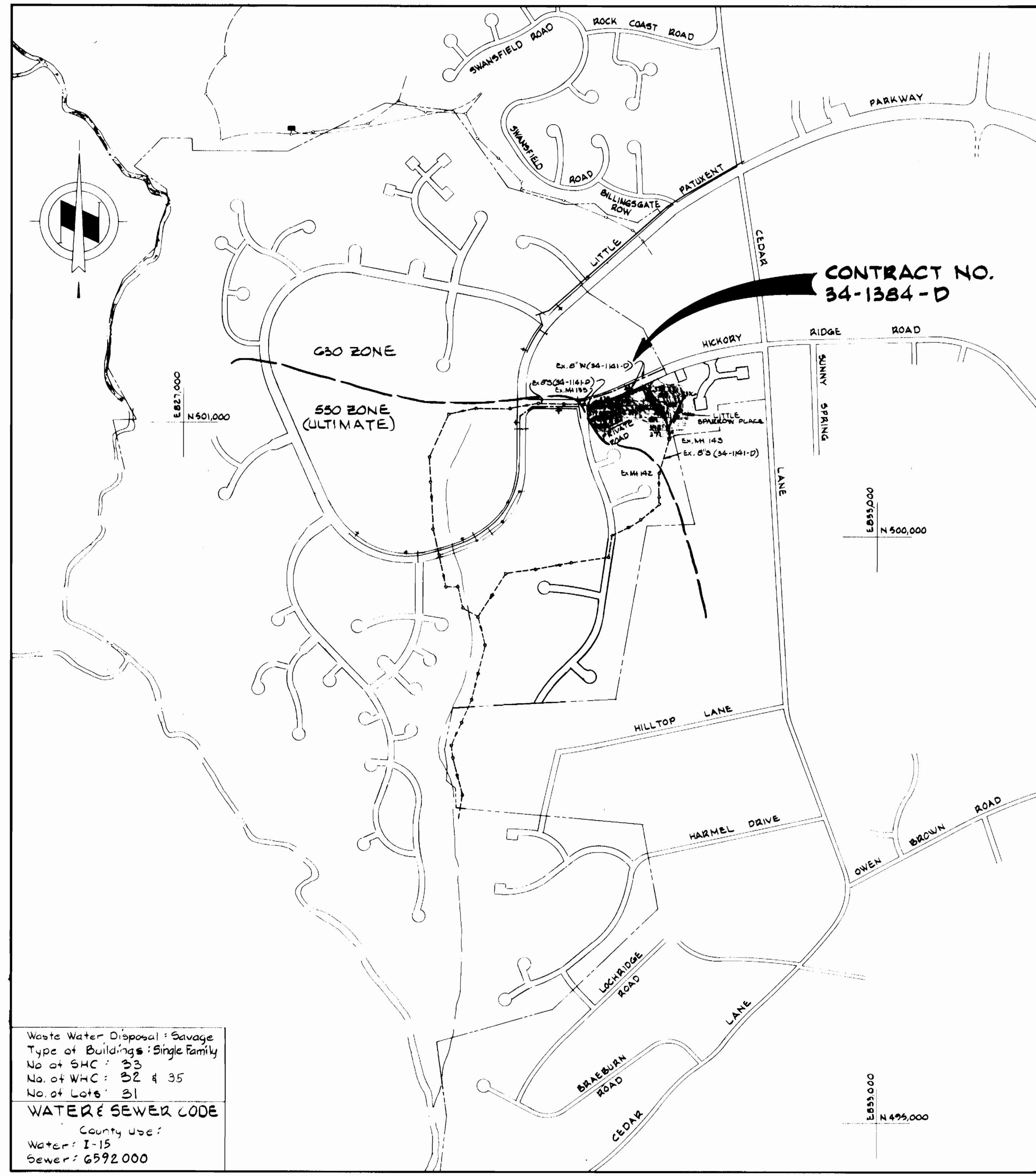


GENERAL NOTES

- 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 TO THE SATISFACTION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL [] AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - STATE HIGHWAY ADMINISTRATION - 531-5533
 - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES 561-2585
 - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 234-5621
 - BALTIMORE GAS & ELECTRIC CO. - TROUBLE SHOOTING - 298-9013
 - MISS UTILITY - 1 - 559-0100
 - COLONIAL PIPELINE CO. - 795-1390
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 992-2366
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION.
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- ALL W.H.C.'S. SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- ALL COPPER WATER HOUSE CONNECTIONS SHALL UTILIZE FLARED FITTINGS.
- ALL SEWER MAINS SHALL BE C.SP.X., O.I.P., V.C.P.X., A.C.P. CLASS 2400 OR P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS. STANDARD DETAIL G5-52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 0.5' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ORIGINAL GROUND OVER WATER AND SEWER WAS TAKEN FROM AERIAL PHOTOGRAPHY PREPARED BY MAPS AND INC. AND VERIFIED BY FIELD SURVEY IN FEBRUARY 1984.
- STRAW BALE DIKE AND SILT FENCE ARE INTERCHANGEABLE.

QUANTITIES			
ITEM	BID	AS-BUILT	MATERIAL/SUPPLIER
8" Sewer (P.V.C.) LF	1080	1075	WATERWORKS, INC.
Manholes Ea.	10	10	ATLANTIC PRECAST CONC. (FRAMES & COVER BY B&C UTILITY, INC.)
8" Water (D.I.) LF	10	9'-10"	WATERWORKS, INC.
6" Water (D.I.) LF	700	672	" " " "
6" V (Excluding FH) Ea.	2	2 *	MUNICIPAL & CONTR. SALES * PLUS 2'-6" VALVES & FIRE HYD.'S
Fire Hydrants Ea.	2	2	" " " "
65 House Connection LF	800	781 (PVC)	WATERWORKS, INC.
17" House Connection LF	420	365 (COPR)	MUNICIPAL & CONTR. SALES
16" House Connection LF	600	572 (COPR)	" " " "
1/2" Drain for W Main Ea.	1	1	" " " "
1 1/2" WHC (BLOW OFF)	LF	14 (COPR)	" " " "
6" PVC CAP/PLUS		5'	WATERWORKS, INC.
8" X 6" X 8" PVC TTY		1'	" " " "
WATER HSE CONN.	31	32	(INCL. LOT # 35)
SEWER HSE CONN.	33	34	(INCL. LOTS EAST OF # 28, # 29)



Waste Water Disposal: Savage
 Type of Building: Single Family
 No. of S.H.C.: 33
 No. of W.H.C.: 32 & 35
 No. of Lots: 31
WATER & SEWER CODE
 County Use:
 Water: I-15
 Sewer: 6592.000

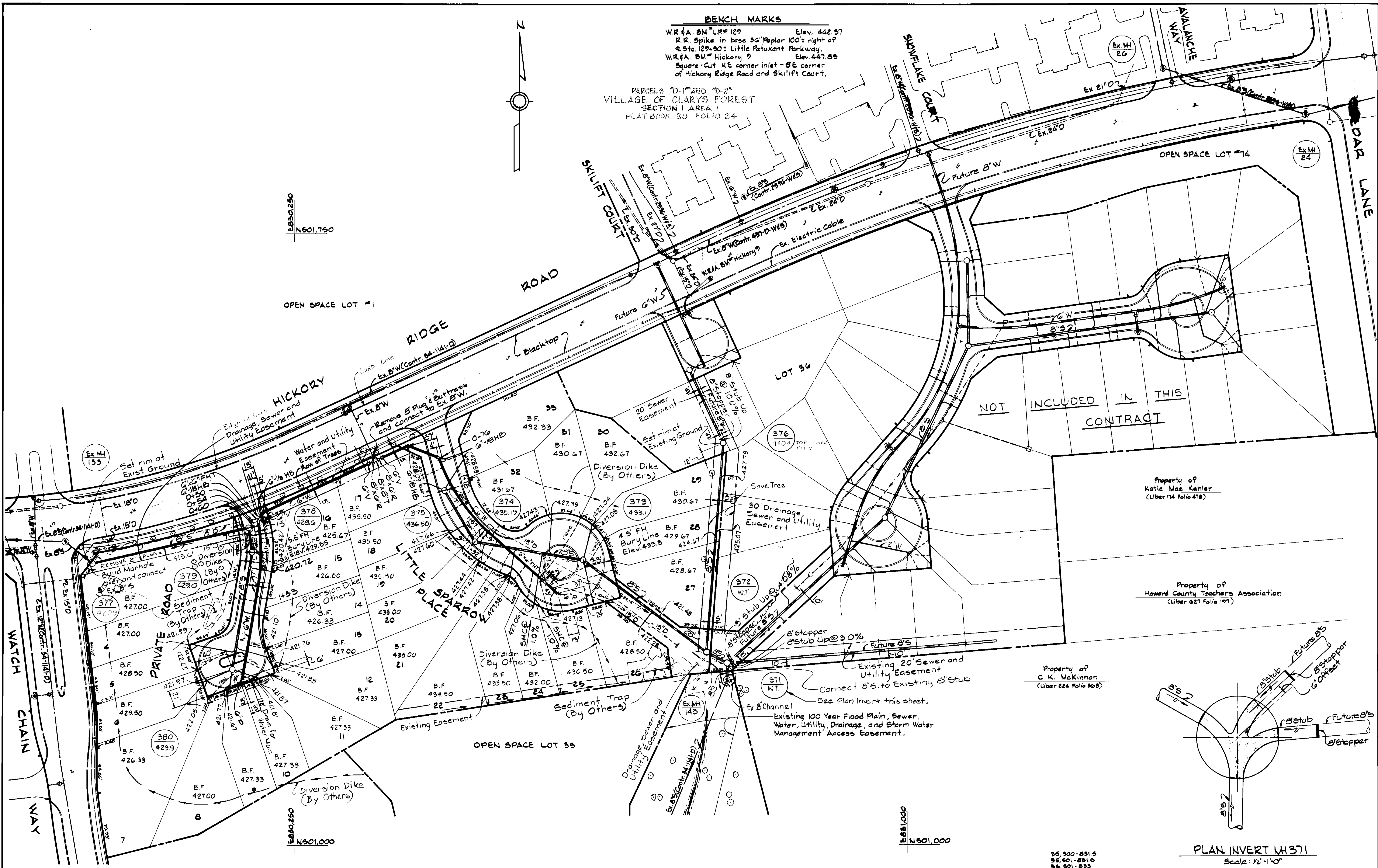
CONTRACT NO. 34-1384-D
 VILLAGE OF HICKORY RIDGE
 HOWARD COUNTY, MARYLAND
 DEPARTMENT OF PUBLIC WORKS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT
 [Signature] 8/23/85 DATE
 U.S. SOIL CONSERVATION SERVICE
 This Development Plan is approved for Soil Erosion and Sediment Control by the Howard County Conservation District.
 APPROVED: [Signature] 8/23/85 DATE
 HOWARD S.C.D.

Sediment Control Measures for this Contract will be implemented in accordance with Article 15 of the Standard Specifications, and Road Construction Plan F-86-05.

Lots 3 thru 36
 Resubdivision of Lot 2

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND [Signature] 8/23/85 DIRECTOR OF PUBLIC WORKS - DATE [Signature] August 28, 1985 CHIEF - BUREAU OF UTILITIES - DATE	WHITMAN, REQUARDT AND ASSOCIATES ENGINEERS 2315 ST. PAUL ST. BALTIMORE, MARYLAND	[Seal of Howard County, Maryland]	DES. S.J. PRN. J.R.K. CHK. R.B.N. DATE: _____ BY: _____ NO: _____ REVISION: _____ DATE: _____	VICINITY MAP AND GENERAL NOTES COLUMBIA VILLAGE OF HICKORY RIDGE SECTION 3 AREA 2 ELECTION DISTRICT NO. 5 CONTRACT NO. 34-1384-D	SCALE 1"=600' SHEET 1 OF 3
--	--	-----------------------------------	--	---	-------------------------------------



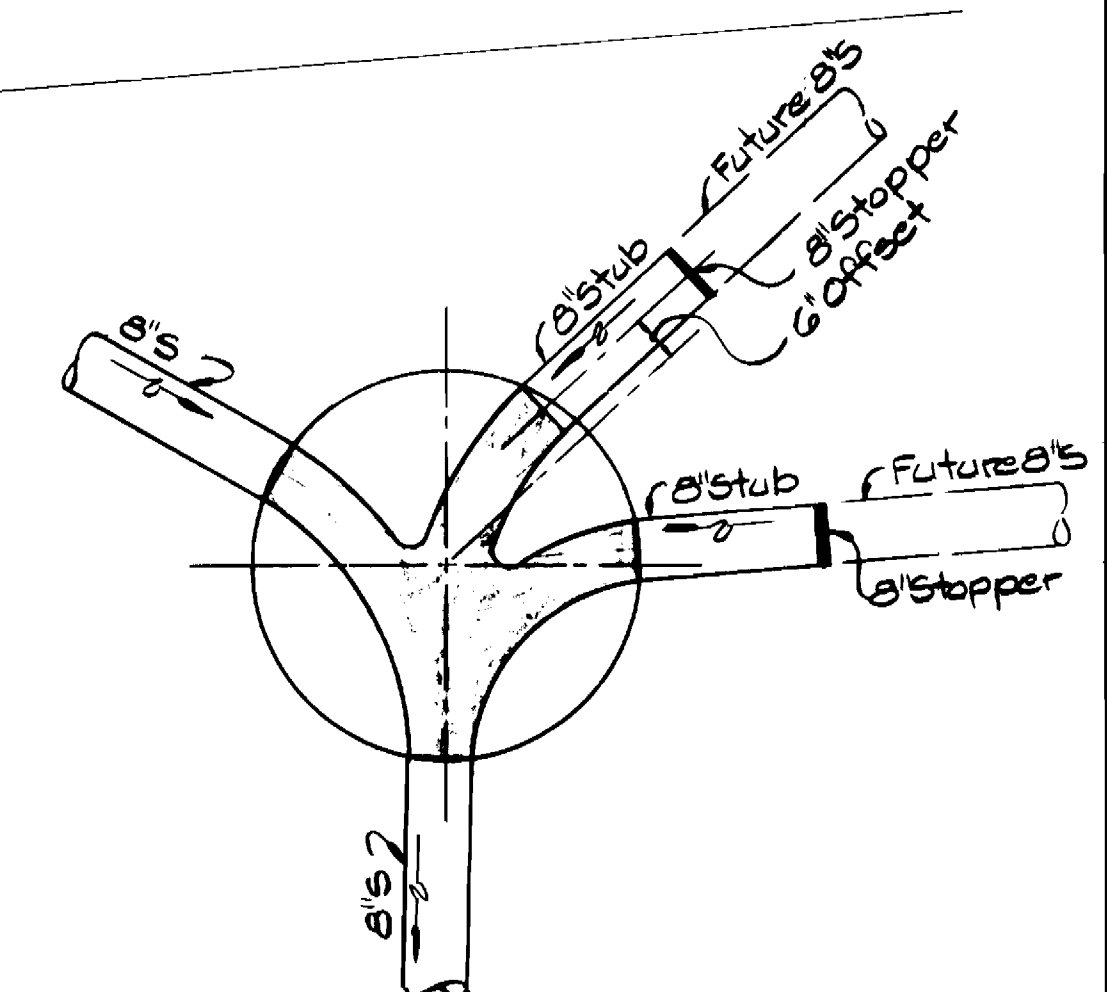
BENCH MARKS
 W.R.#A. BM "LPP 129 Elev. 442.37
 R.R. Spike in base 36" Rebar 100' right of
 Sta. 129+50 Little Patuxent Parkway.
 W.R.#A. BM "Hickory 9 Elev. 447.85
 Square-Cut NE corner inlet - SE corner
 of Hickory Ridge Road and Skilift Court,

PARCELS "D-1" AND "D-2"
 VILLAGE OF CLARYS FOREST
 SECTION 1 AREA 1
 PLAT BOOK 30 FOLIO 24

15830250
 N501,750

15830250
 N501,000

15831000
 N501,000



Property of
 C.K. McKimmon
 (Liber 224 Folio 305)

Property of
 Katie Mae Kahler
 (Liber 174 Folio 478)

Property of
 Howard County Teachers Association
 (Liber 227 Folio 197)

NOT INCLUDED IN THIS
 CONTRACT

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

WHITMAN, REQUARDT
 AND ASSOCIATES
 ENGINEERS
 2315 ST PAUL ST
 BALTIMORE, MARYLAND



DES: S.J.	BY: NO.	REVISION	DATE
CHK: R.B.N.			
DATE:			

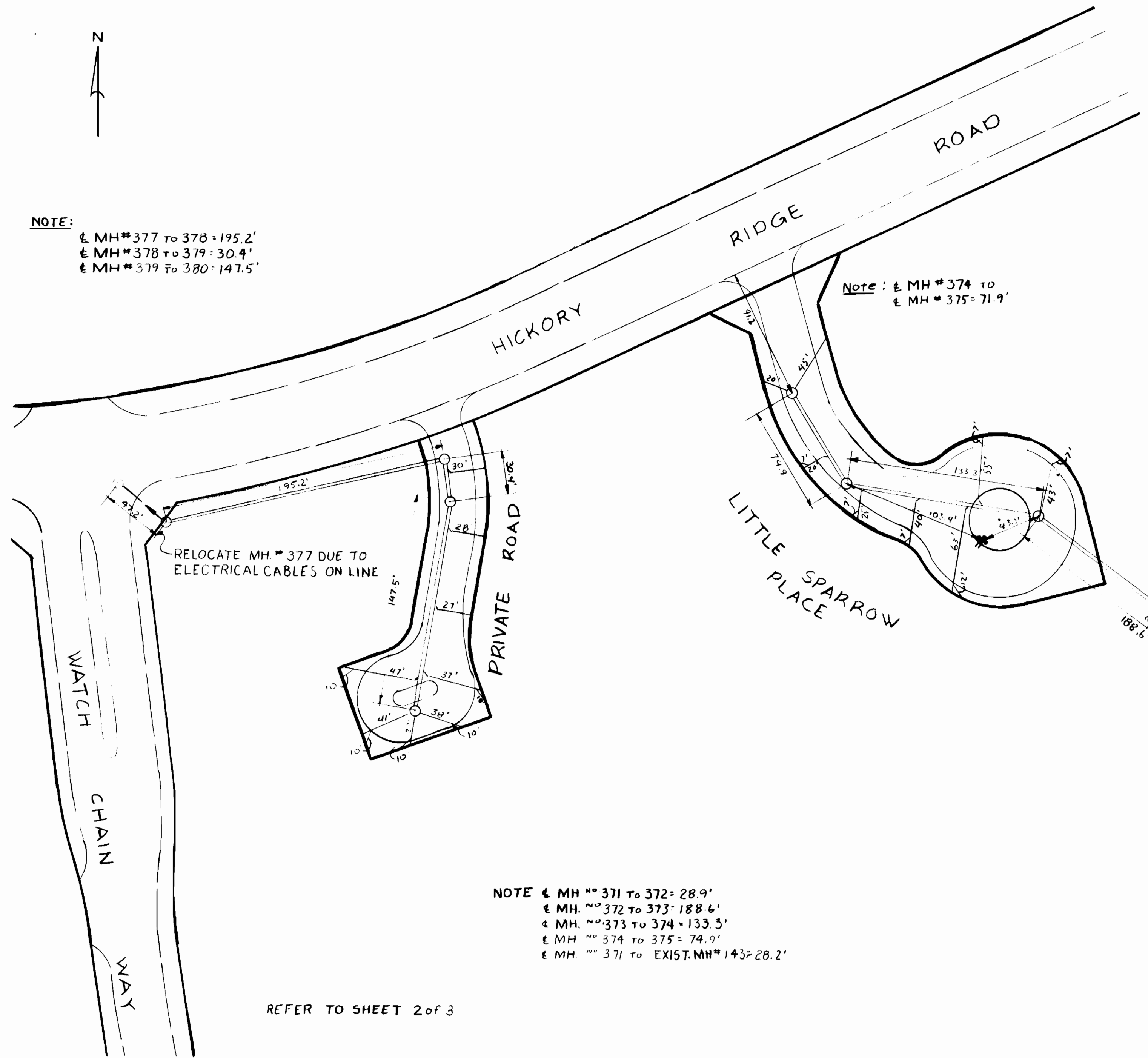
PLAN OF
 WATER & SEWER MAINS

COLUMBIA
 VILLAGE OF HICKORY RIDGE
 SECTION 3 AREA 2
 ELECTION DISTRICT NO.5
 CONTRACT NO. 34-1384-D

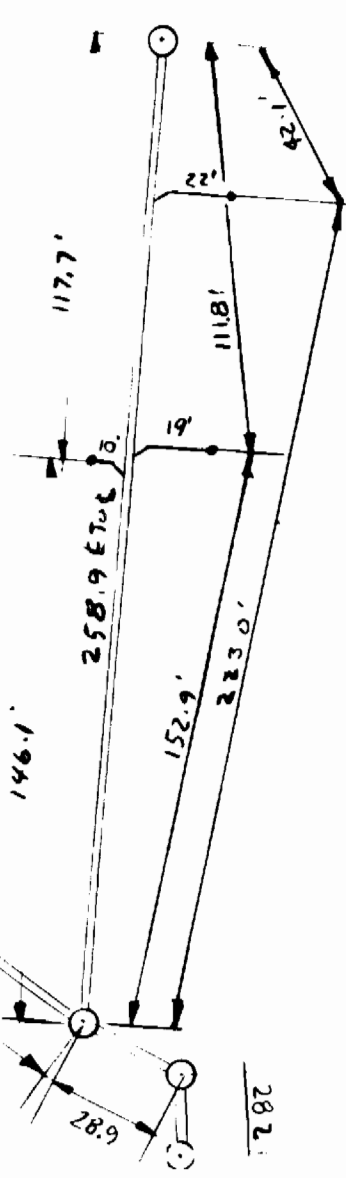
SCALE
 1"=50'
 SHEET
 2 OF 3



NOTE:
 ± MH#377 to 378 = 195.2'
 ± MH#378 to 379 = 30.4'
 ± MH#379 to 380 = 147.5'



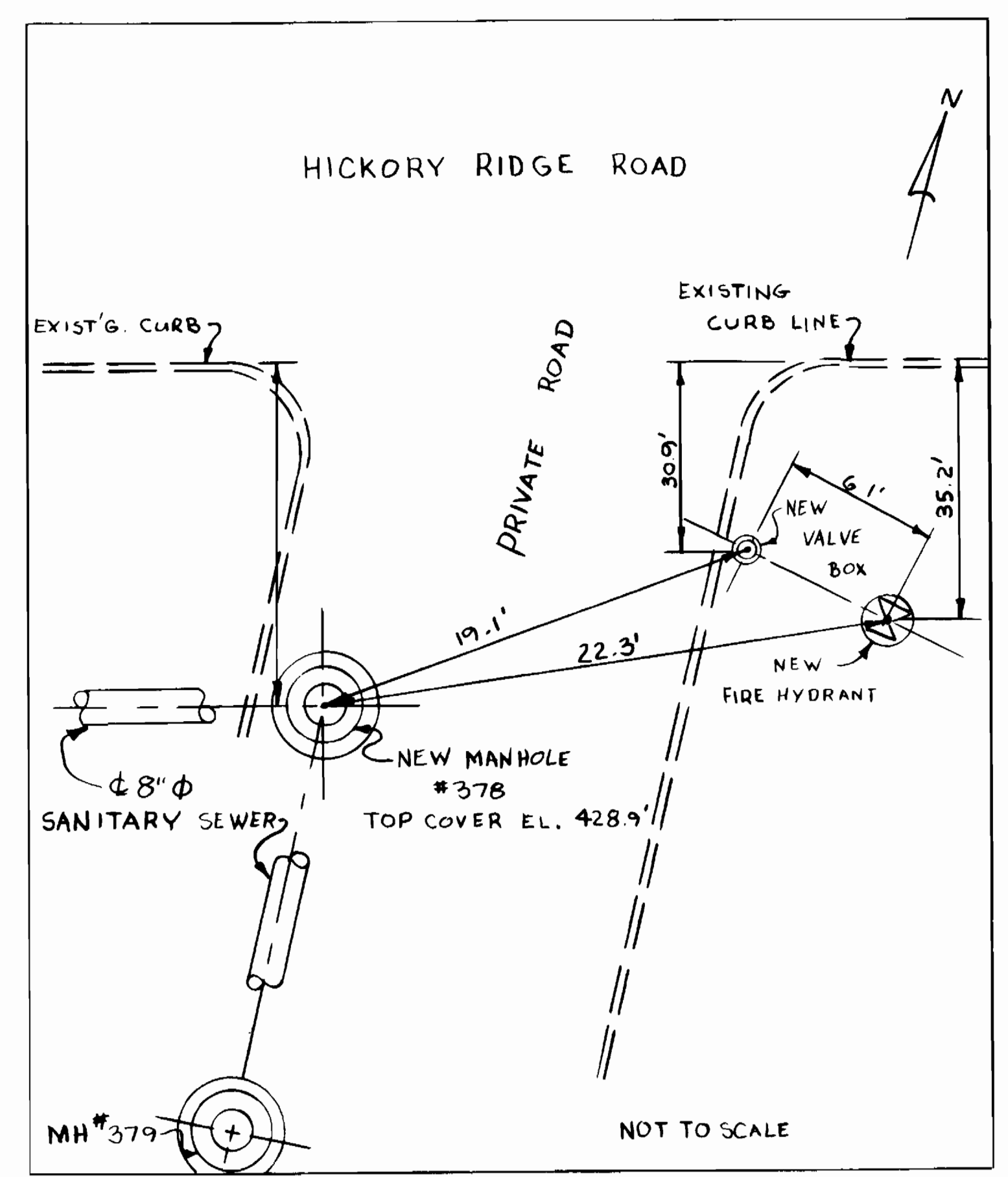
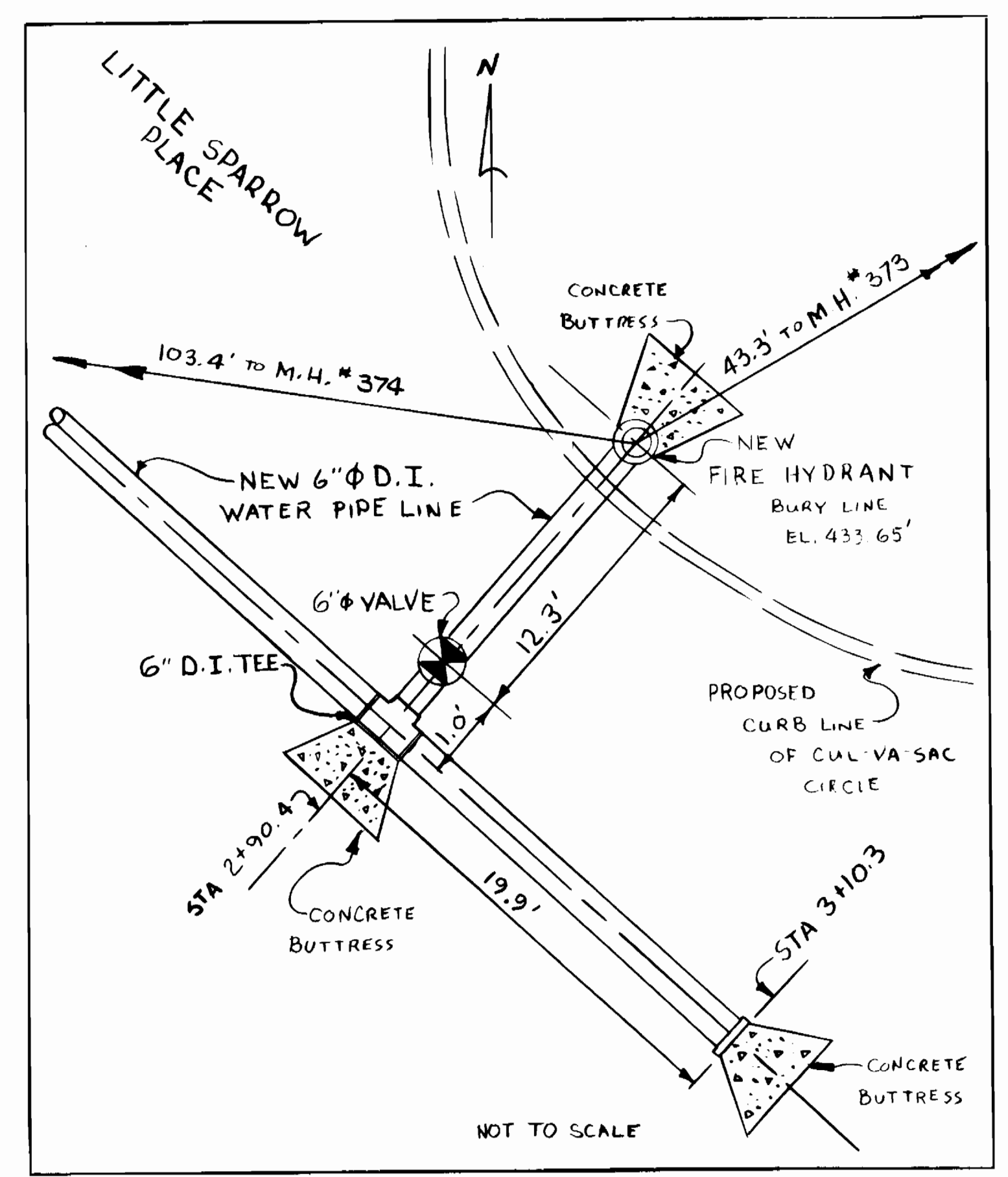
Note: ± MH#374 to
 ± MH#375 = 71.9'



Note: ± MH#372 to
 ± MH#376 = 258.9'

NOTE ± MH#371 to 372 = 28.9'
 ± MH#372 to 373 = 188.6'
 ± MH#373 to 374 = 133.5'
 ± MH#374 to 375 = 74.9'
 ± MH#371 to EXIST.MH#143 = 28.2'

REFER TO SHEET 2 of 3



DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS DATE CHIEF, BUREAU OF ENGINEERING DATE

DES:				
DRN:				
CHK:				
DATE:	BY	NO.	REVISION	DATE

600' SCALE MAP NO. _____ BLOCK NO. _____

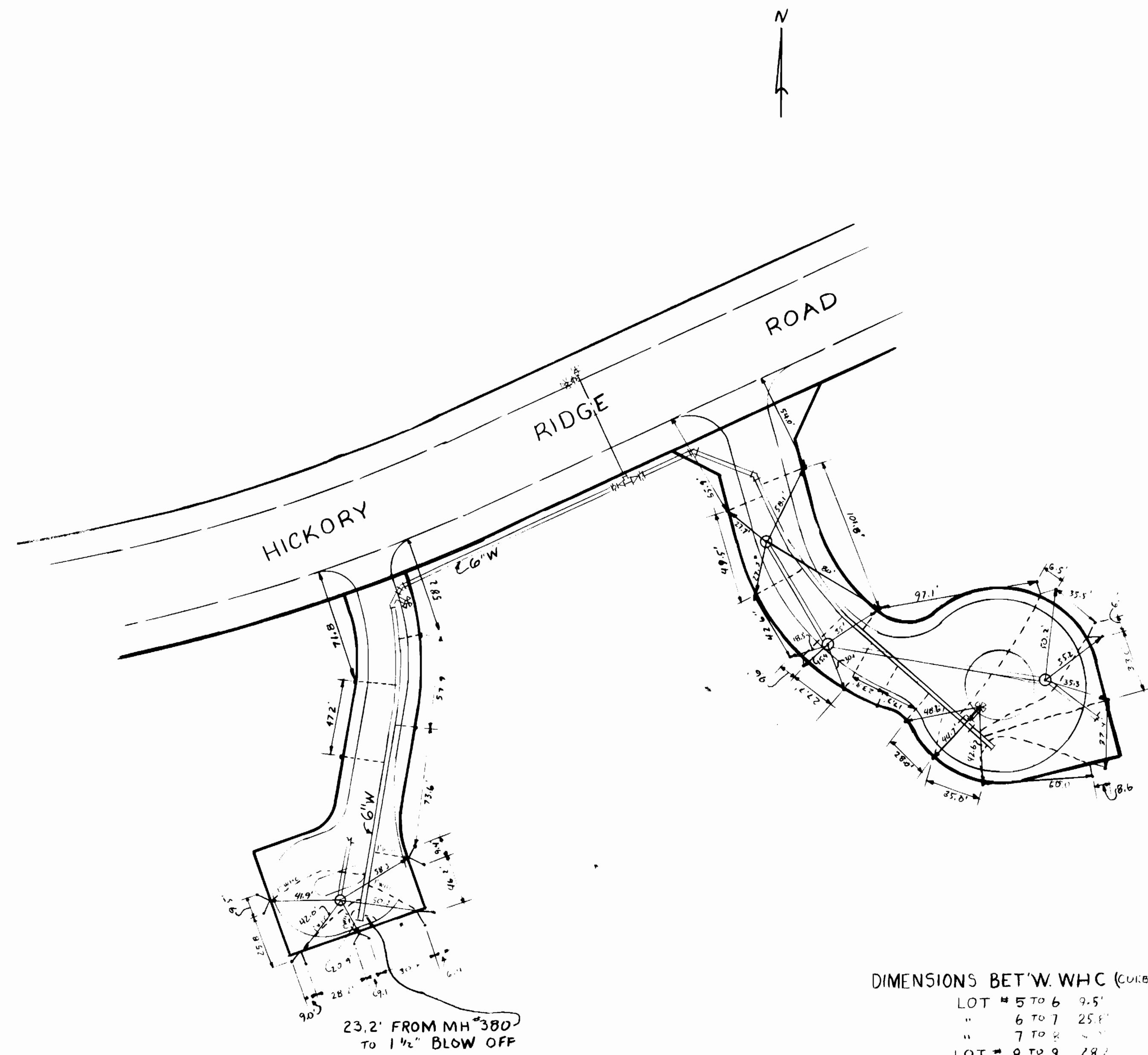
CONTRACT NO. 34-1384-D

SCALE AS SHOWN

SHEET 2A OF 3

SEWER AS-BUILT 6-25-86

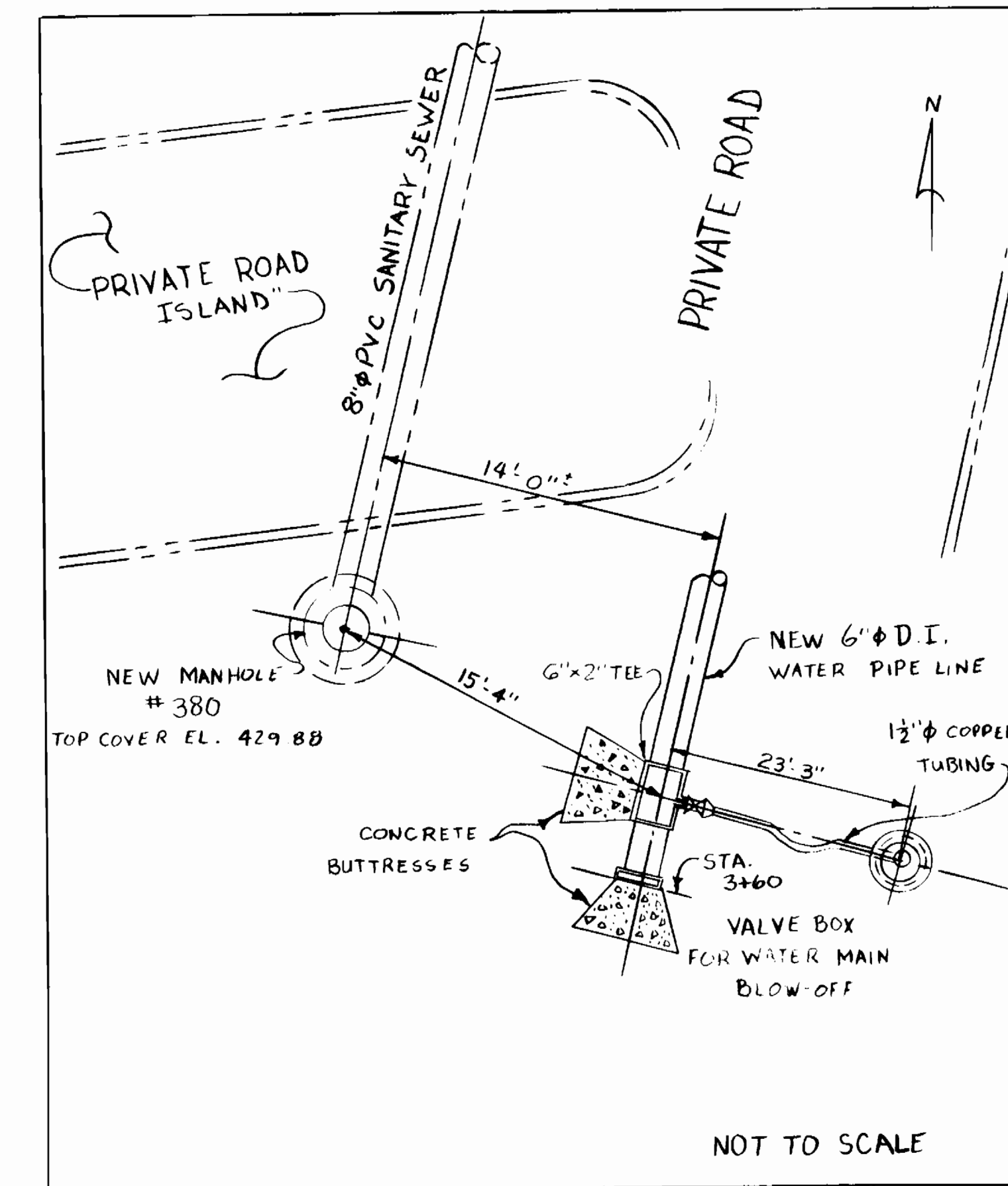
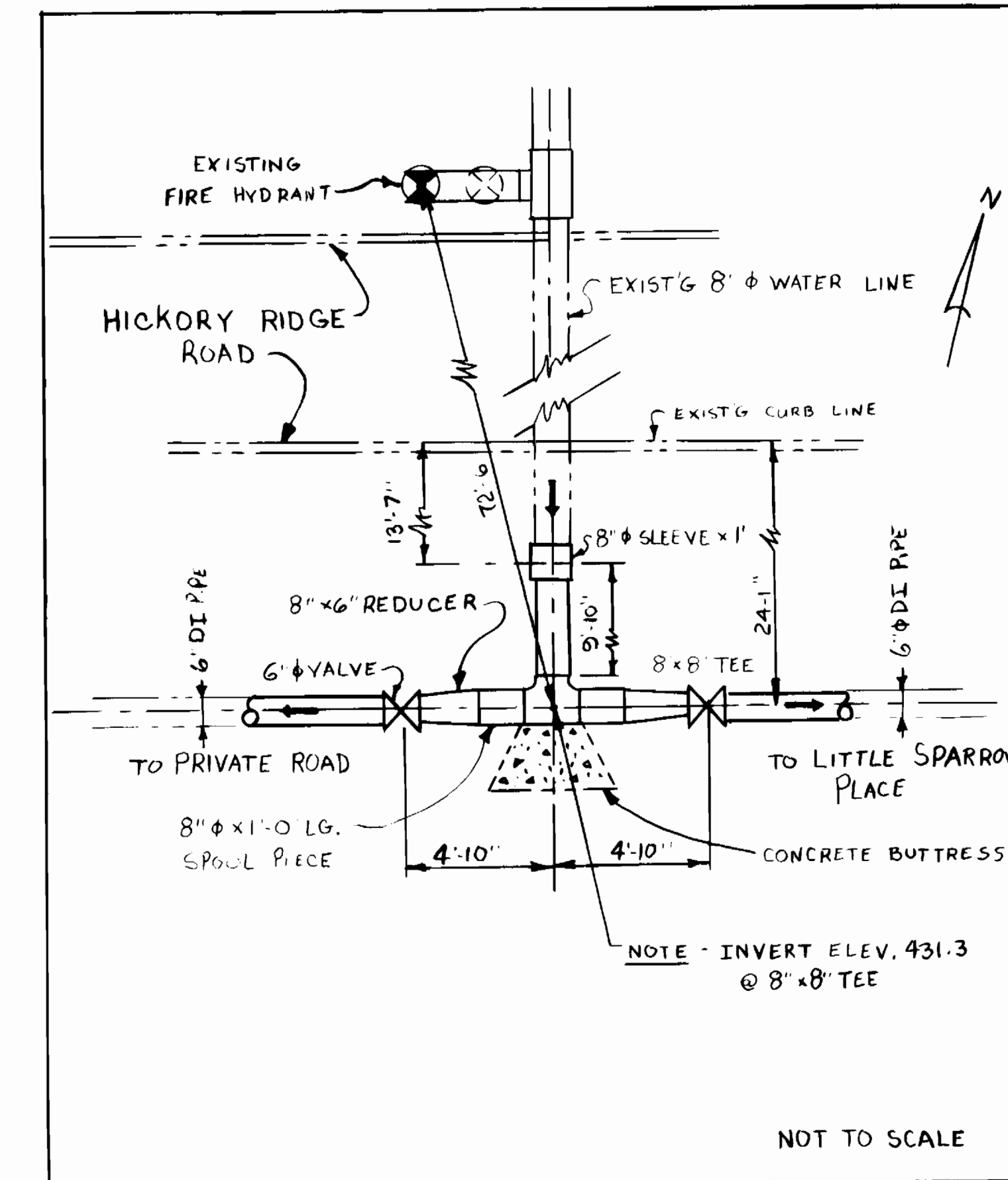
BRUNING 44-132 89150



DIMENSIONS BET'W. WHC (CURB SERVICE POINT)

LOT # 5 TO 6	9.5'
" 6 TO 7	25.1'
" 7 TO 8	2.7'
LOT # 8 TO 9	28.2'
" 9 TO 10	9.1'
" 10 TO 11	30.8'
LOT # 11 TO 12	6.4'
" 12 TO 13	46.2'
" 13 TO 14	9.4'
LOT # 14 TO 15	73.6'
" 15 TO 16	57.9'
" 17 TO 18	49.5'
LOT # 18 TO 19	42.6'
" 19 TO 20	9.4'
" 20 TO 21	27.7'
LOT # 21 TO 22	23.8'
" 22 TO 23	17.7'
" 23 TO 24	28.0'
LOT # 24 TO 25	35.0'
" 25 TO 26	60.0'
" 26 TO 27	8.6'
LOT # 27 TO 28	37.4'
" 28 TO 29	33.0'
" 29 TO 30	6.5'
LOT # 30 TO 31	35.5'
" 31 TO 32	97.1'
" 32 TO 33	101.8'

REFER TO SHEET 2 OF 3



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS _____ DATE _____ CHIEF, BUREAU OF ENGINEERING _____ DATE _____

DES:					
DRN:					
CHK:					
DATE:	BY	NO.	REVISION	DATE	

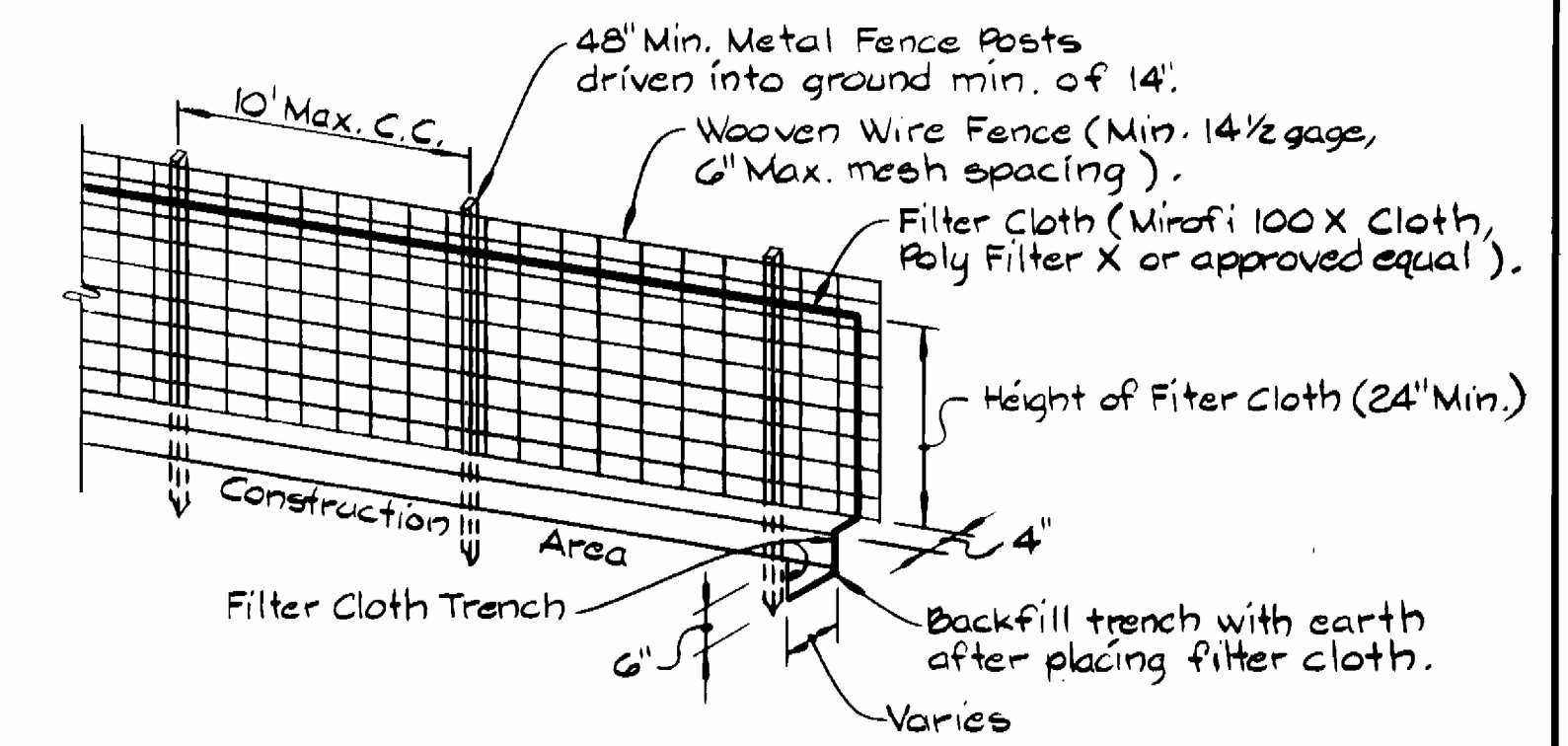
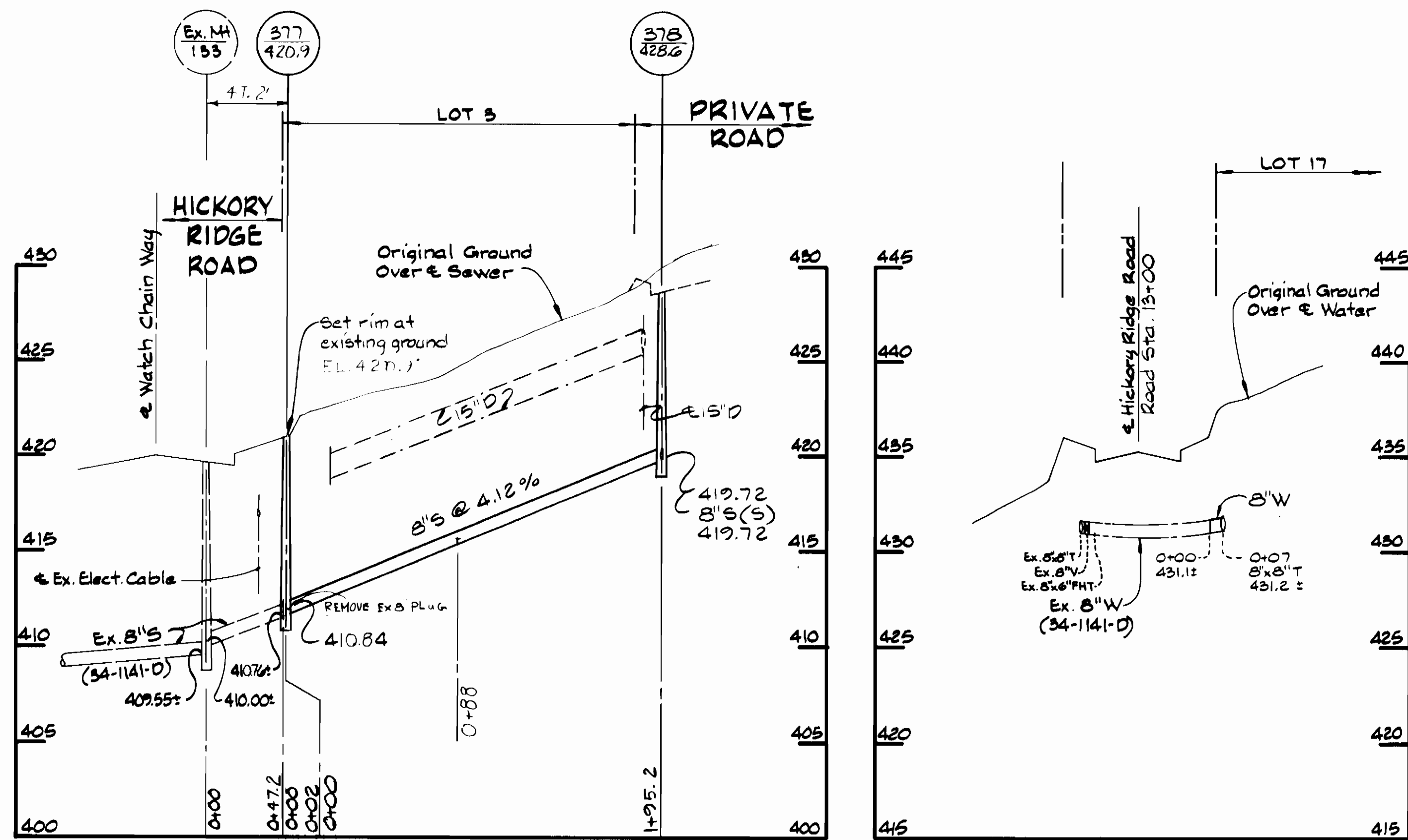
600' SCALE MAP NO. _____ BLOCK NO. _____

CONTRACT NO. 34-1551-D

SCALE
AS
SHOWN

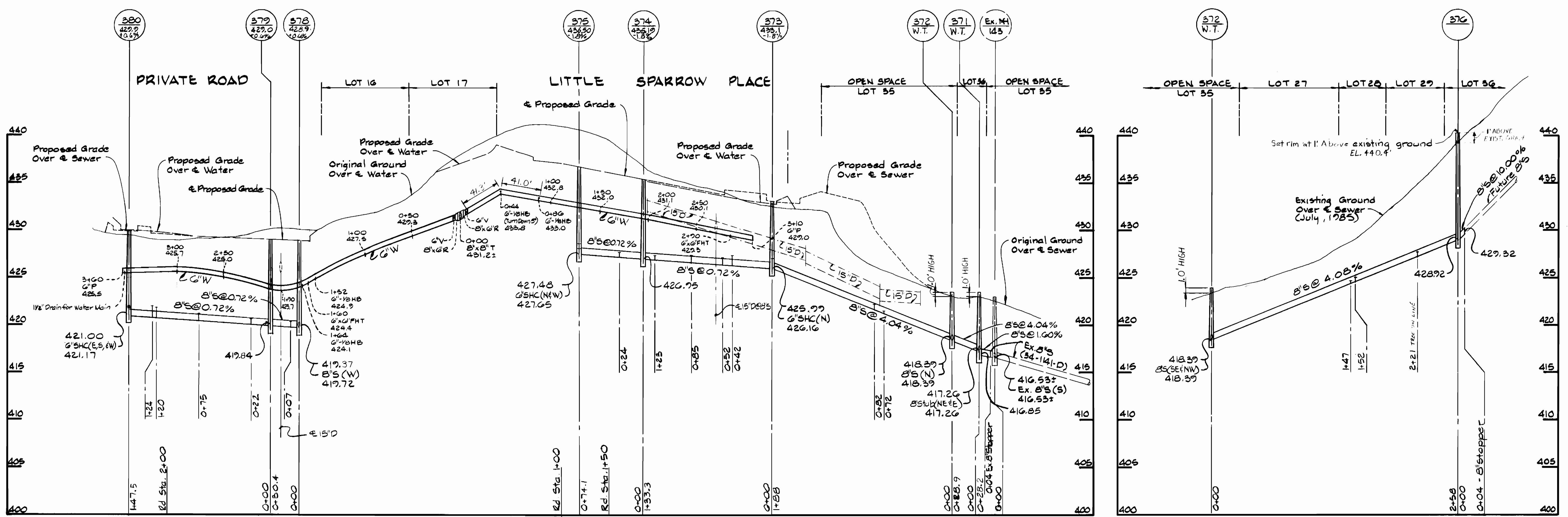
SHEET
2 OF 3

WATER AS-BUILT 6-26-86



NOTES:
1. Woven wire fence to be fastened securely to fence posts by use of wire ties.
2. Filter cloth to be fastened securely to woven wire fence by use of wire ties spaced every 24" at top and mid section.

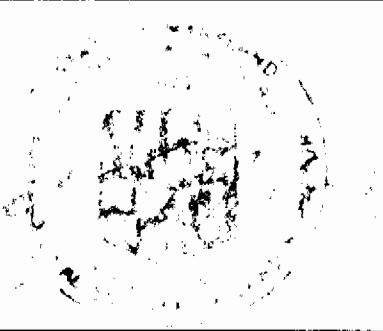
SILT FENCE DETAIL



PROFILES
H: 1"=50'
V: 1"=5'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Director of Public Works - DATE
Chief - Bureau of Engineering - DATE
Chief - Bureau of Utilities - DATE
Chief - Land Development Division - DATE

WHITMAN, REQUARDT
AND ASSOCIATES
ENGINEERS
2315 ST. PAUL ST.
BALTIMORE, MARYLAND



DES: S.J.			
DRN: J.R.K.			
CHK: R.B.N.			
DATE: _____	BY: NO. _____	REVISION _____	DATE _____

PROFILES OF
WATER & SEWER MAINS

COLUMBIA
VILLAGE OF HICKORY RIDGE
SECTION 3 AREA 2
ELECTION DISTRICT NO. 5
CONTRACT NO. 34-1384-D

SCALE
AS
SHOWN
SHEET
3 OF 3