

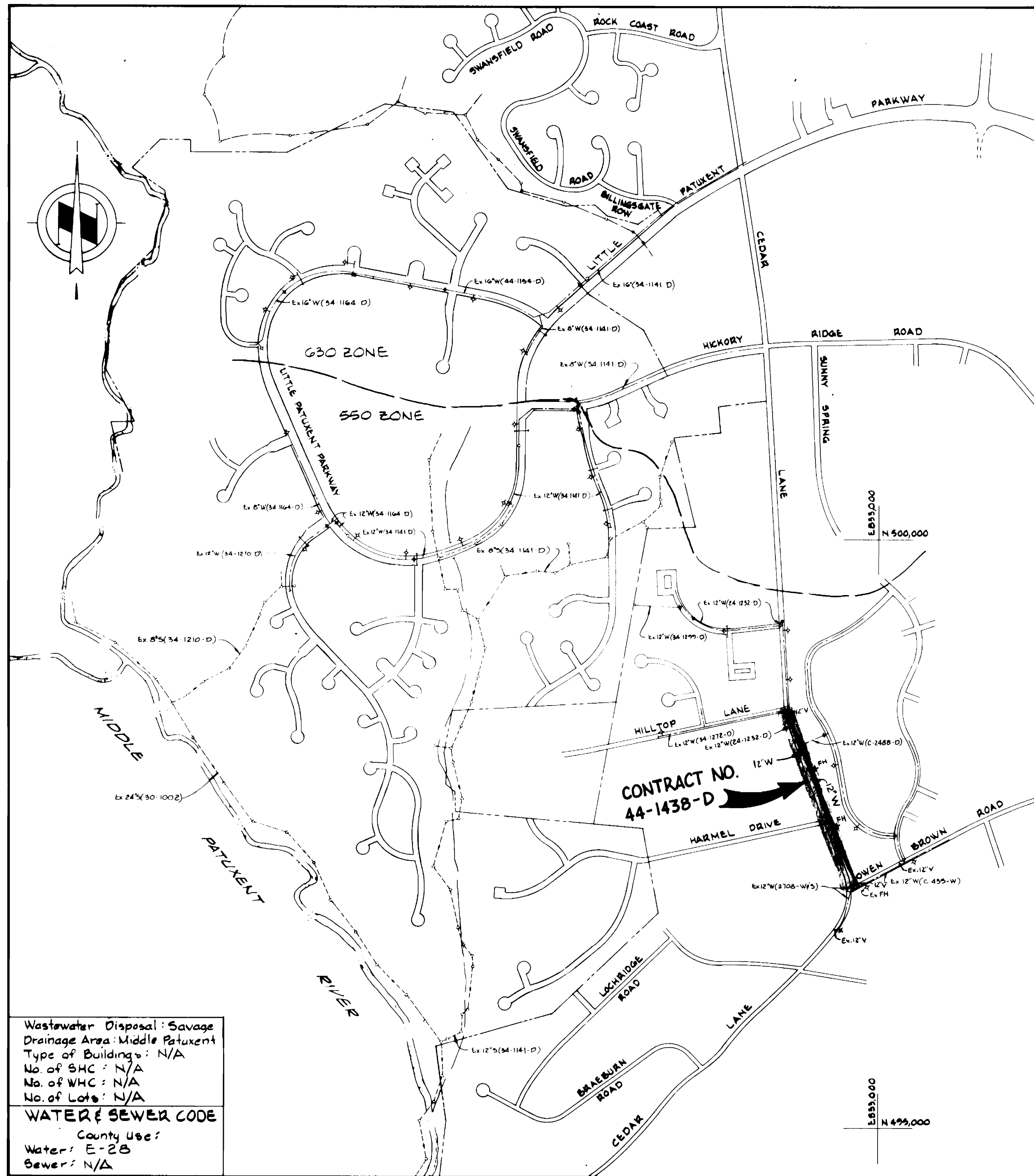
GENERAL NOTES

- 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 INSIDE METER SETTINGS, 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.
- STRAW BALE DIKE AND SILT FENCE ARE INTERCHANGEABLE.

QUANTITIES			
ITEM	BID	AS-BUILT	MATERIAL/SUPPLIER
12" Water LF	1670	1648 LF	US PIPE & FOUNDRY
12" Valves Ea.	2	2	MUNICIPAL CONTR SALES
8" Valves Ea.	1	1	US PIPE & FOUNDRY
Fire Hydrants Ea.	2	2	US PIPE & FOUNDRY
6" DIP CURTH		46 LF	US PIPE & FOUNDRY

CONSTRUCTION SEQUENCE  
SEDIMENT CONTROL PROCEDURES

- OBTAIN SEDIMENT CONTROL PERMIT (ARTICLE 15.05-5).
- CLEAR, GRUB AND STRIP AS REQUIRED FOR WATERMAIN CONSTRUCTION - PROTECT STREAMS FROM EROSION OF STORED TOPSOIL.
- CONSTRUCT DIKE AND SILT FENCE STRUCTURES IMMEDIATELY AFTER STRIPPING.
- CONSTRUCT WATER PIPE LINES.
- RESTORE EROSION CONTROL STRUCTURES DISTURBED BY CONSTRUCTION.
- STABILIZE DISTURBED AREAS AS CONSTRUCTION PROGRESSES WITH TEMPORARY SEEDING AND MULCHING (OR PERMANENT RESTORATION).
- COMPLETE PERMANENT RESTORATION.
- REMOVE SEDIMENT STRUCTURES WHEN DIRECTED.



Wastewater Disposal: Savage  
Drainage Area: Middle Patuxent  
Type of Buildings: N/A  
No. of SHC: N/A  
No. of WHC: N/A  
No. of Lots: N/A  
WATER & SEWER CODE  
County Use:  
Water: E-2B  
Sewer: N/A

CEDAR LANE WATER MAIN

CONTRACT NO. 44-1438-D  
VILLAGE OF HICKORY RIDGE  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT  
*[Signature]* 3-4-86  
SIGNATURE DATE  
U.S. SOIL CONSERVATION SERVICE

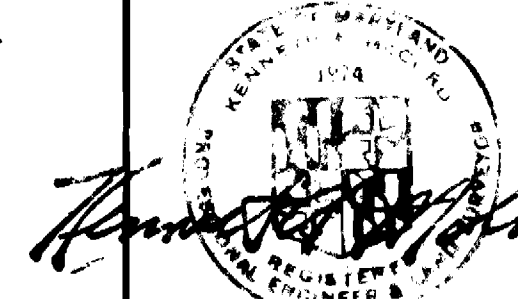
This Development Plan is approved for Soil Erosion and Sediment Control by the Howard County Conservation District.  
APPROVED:  
*[Signature]* 3/4/86  
HOWARD S.C.D. DATE

Sediment Control Measures for this Contract will be implemented in accordance with Article 15 of the Standard Specifications.

Cedar Lane Water Main

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
*[Signature]* 3-10-86  
DIRECTOR OF PUBLIC WORKS - DATE  
*[Signature]* 3-7-86  
CHIEF - BUREAU OF UTILITIES - DATE

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

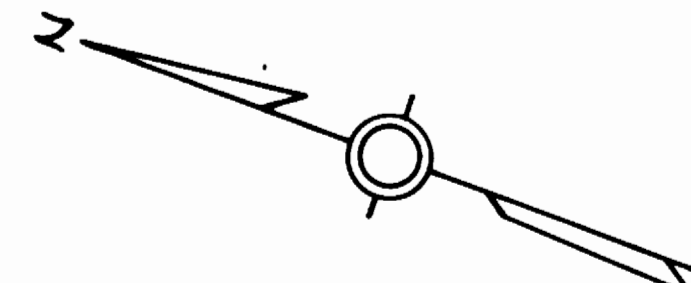


DES J.R.K.				
DHN J.R.K.				
CHK R.B.N.				
DATE	BY	NO	REVISION	DATE

VICINITY MAP  
AND  
GENERAL NOTES

COLUMBIA  
VILLAGE OF HICKORY RIDGE  
SECTION AREA  
ELECTION DISTRICT NO. 5  
CONTRACT NO. 44-1438-D

SCALE  
1"=60'  
SHEET  
1 OF 3

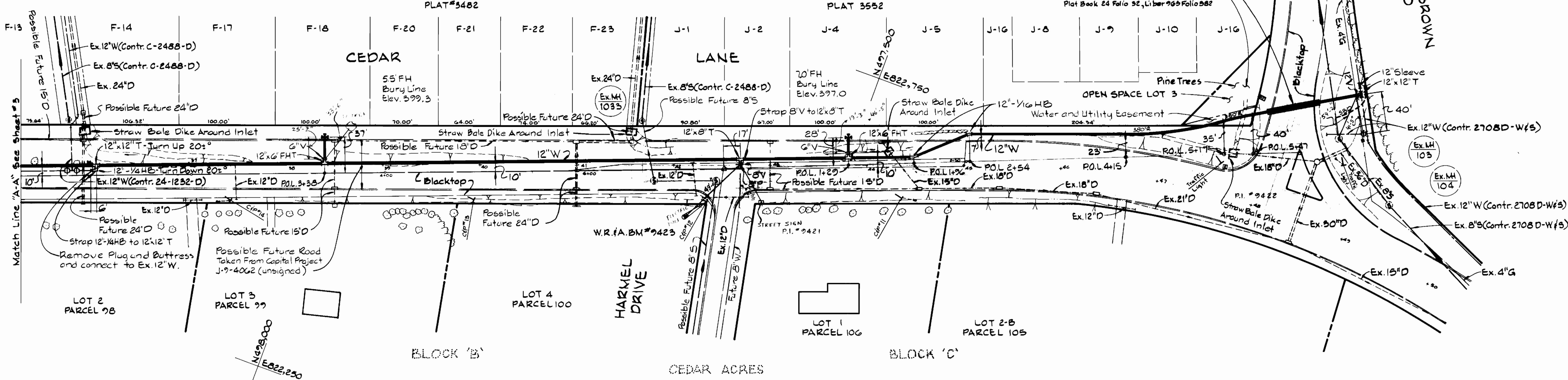


VILLAGE OF HICKORY RIDGE SECTION 1 AREA 1

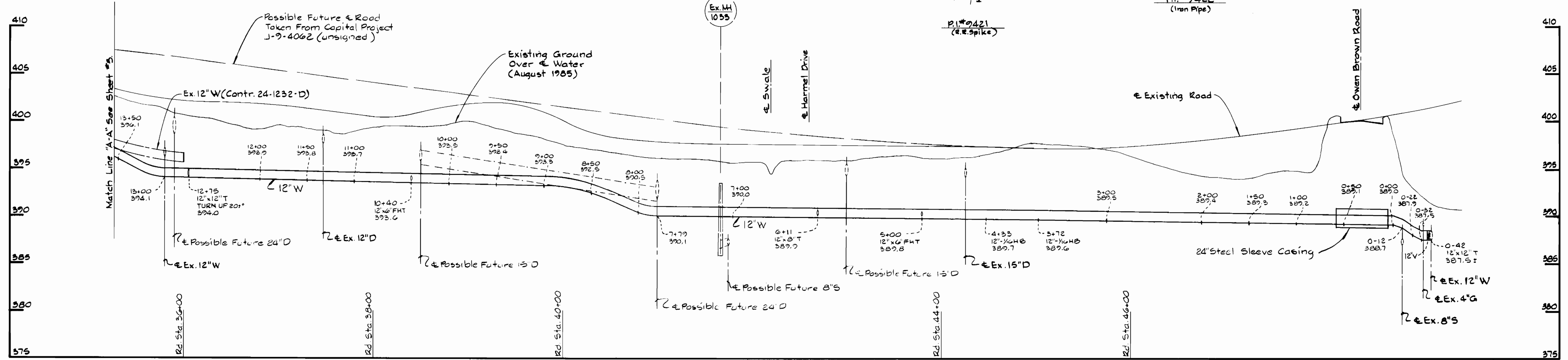
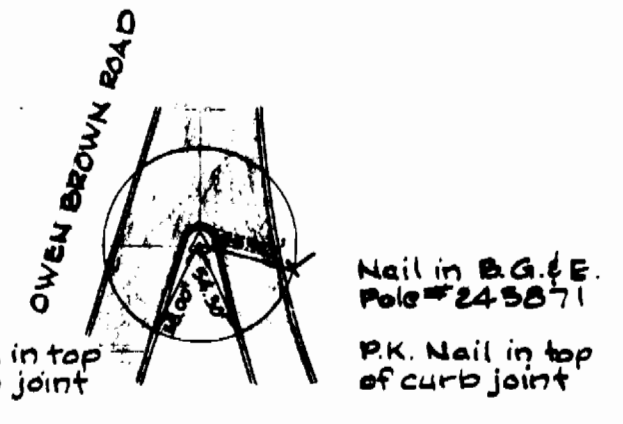
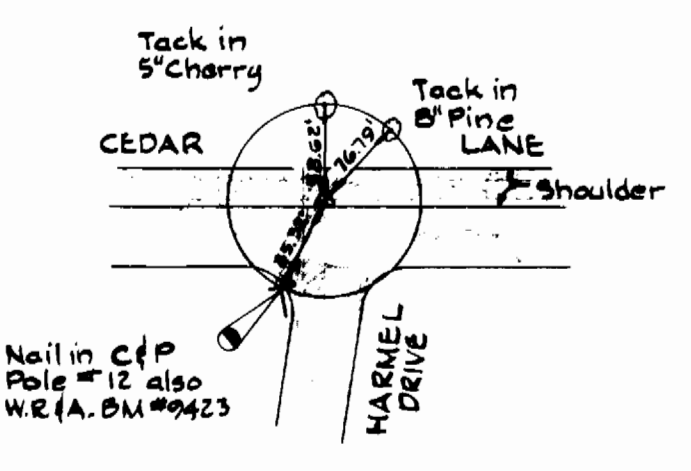
BENCH MARKS

W.R.F.A. B.M.#1 Elev. 424.418  
R.R. Spike in B.G. & E. Pole #22903B on the south side of Hilltop Lane 400' west of Green View Way.  
W.R.F.A. B.M.#9423 Elev. 397.077  
R.R. Spike in C&P Pole #12 on the northwest corner of the intersection of Cedar Lane and Harmel Drive.

Jack or Bore see Standard Detail W.4.21. Provide a joint within 2' of end of casing.  
Property of THE COLUMBIA PARKS AND RECREATION ASSOCIATION, INC.  
Plat Book 24 Folio 32, Liber 969 Folio 582



PLAN Scale: 1"=50'



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

35-497/833 35-498/833 FB 7046 Cedar Lane Water Main

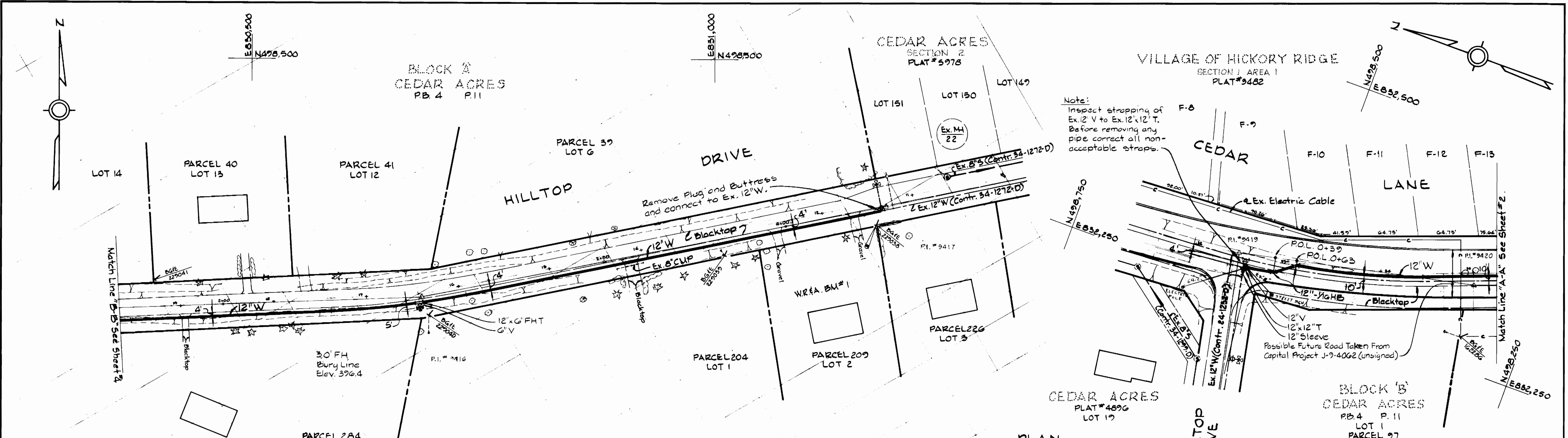
DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
3-10-16  
3-7-86

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

Table with columns: DES. J.R.K., DRN. J.R.K., CHK. R.B.N., DATE, BY, NO., REVISION, DATE.

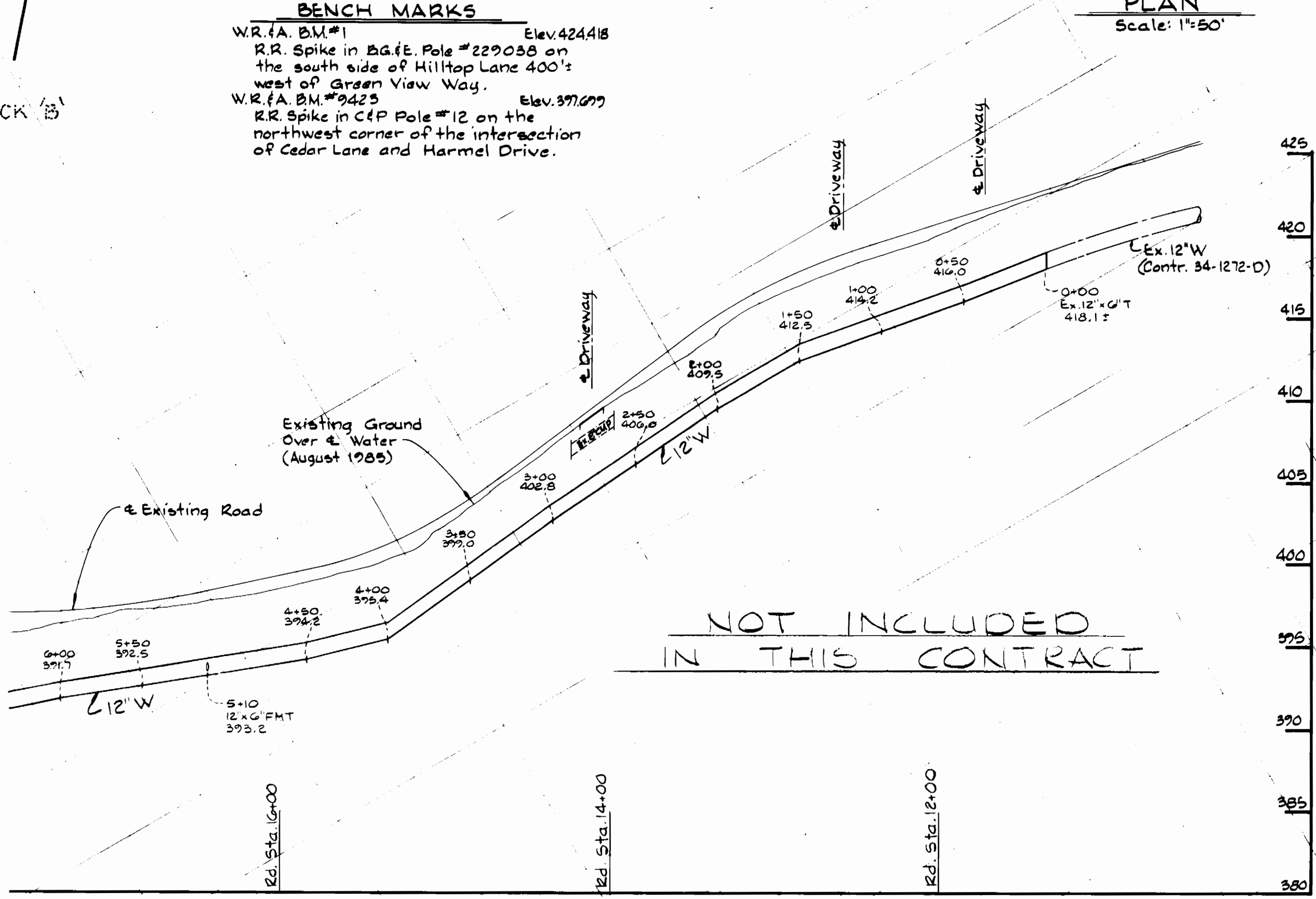
PLAN & PROFILE OF WATER MAINS  
600' SCALE MAP NO. 35 BLOCK NO. 11217

COLUMBIA VILLAGE OF HICKORY RIDGE SECTION AREA ELECTION DISTRICT NO.5 CONTRACT NO. 44-1438-D  
SCALE AS SHOWN SHEET 2 OF 3

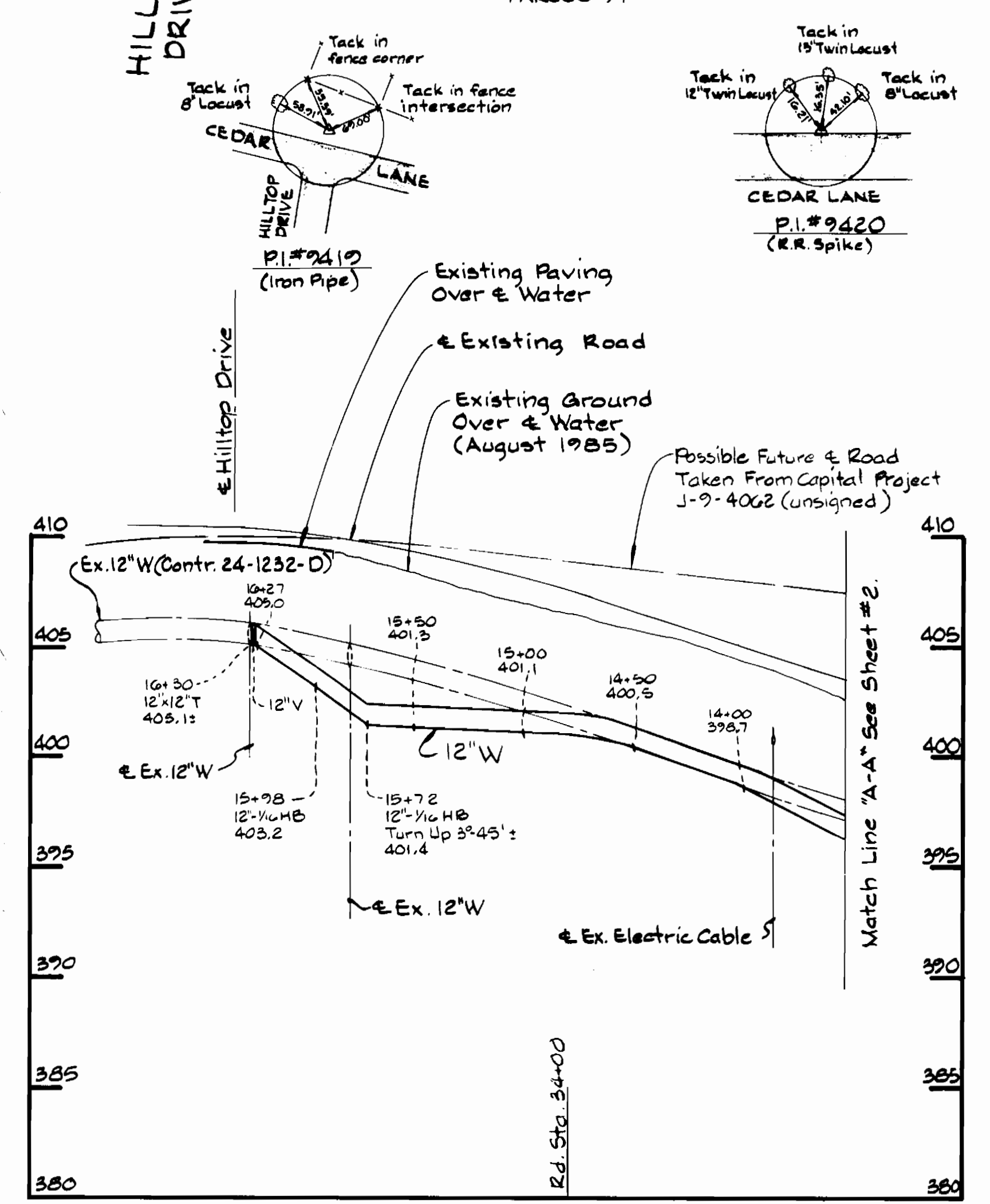


**BENCH MARKS**  
 W.R.F.A. B.M.#1 Elev. 424.18  
 R.R. Spike in B.G. Pole #229038 on the south side of Hilltop Lane 400' west of Green View Way.  
 W.R.F.A. B.M.#2 Elev. 397.27  
 R.R. Spike in C&P Pole #12 on the northwest corner of the intersection of Cedar Lane and Harmel Drive.

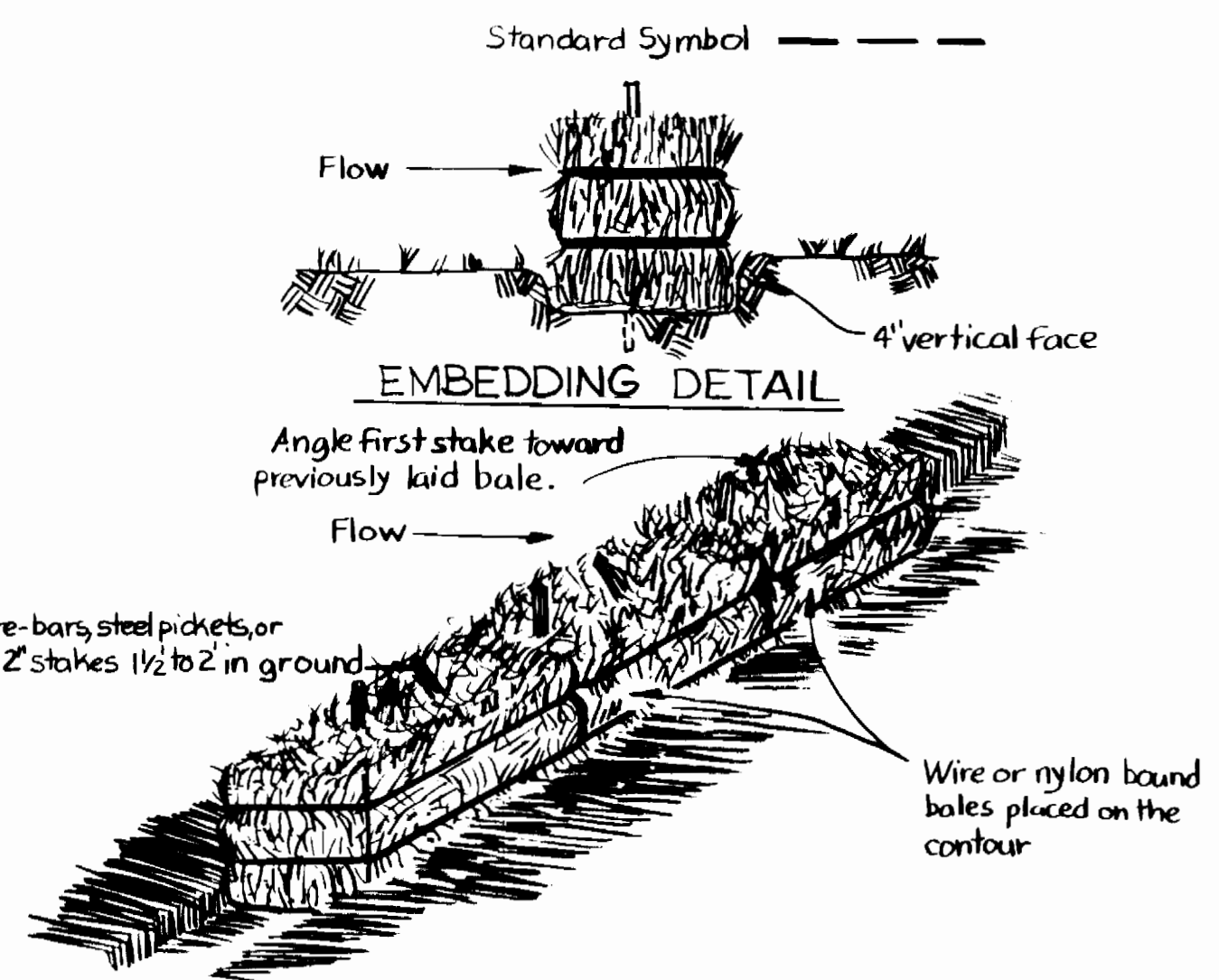
**PLAN**  
 Scale: 1"=50'



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



35-495/833 FB#7046 Cedar Lane Water Main



**ANCHORING DETAIL**  
**STRAW BALE DIKE**

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

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

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

PLAN & PROFILE OF WATER MAINS  
 600' SCALE MAP NO. 35 BLOCK NO. 11

COLUMBIA VILLAGE OF HICKORY RIDGE SECTION AREA ELECTION DISTRICT NO. 5 CONTRACT NO. 44-1438-D

SCALE AS SHOWN  
 SHEET 3 OF 3