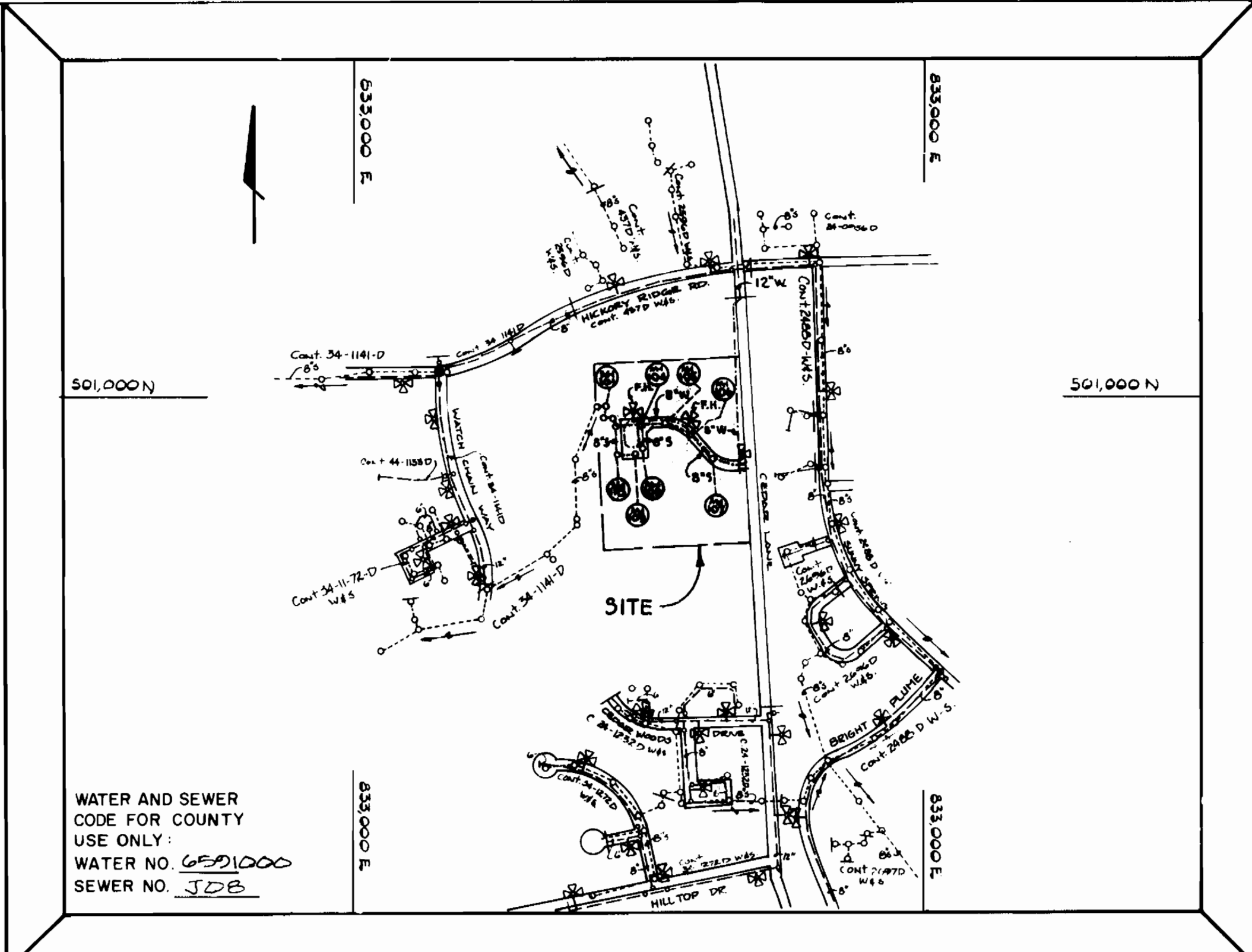
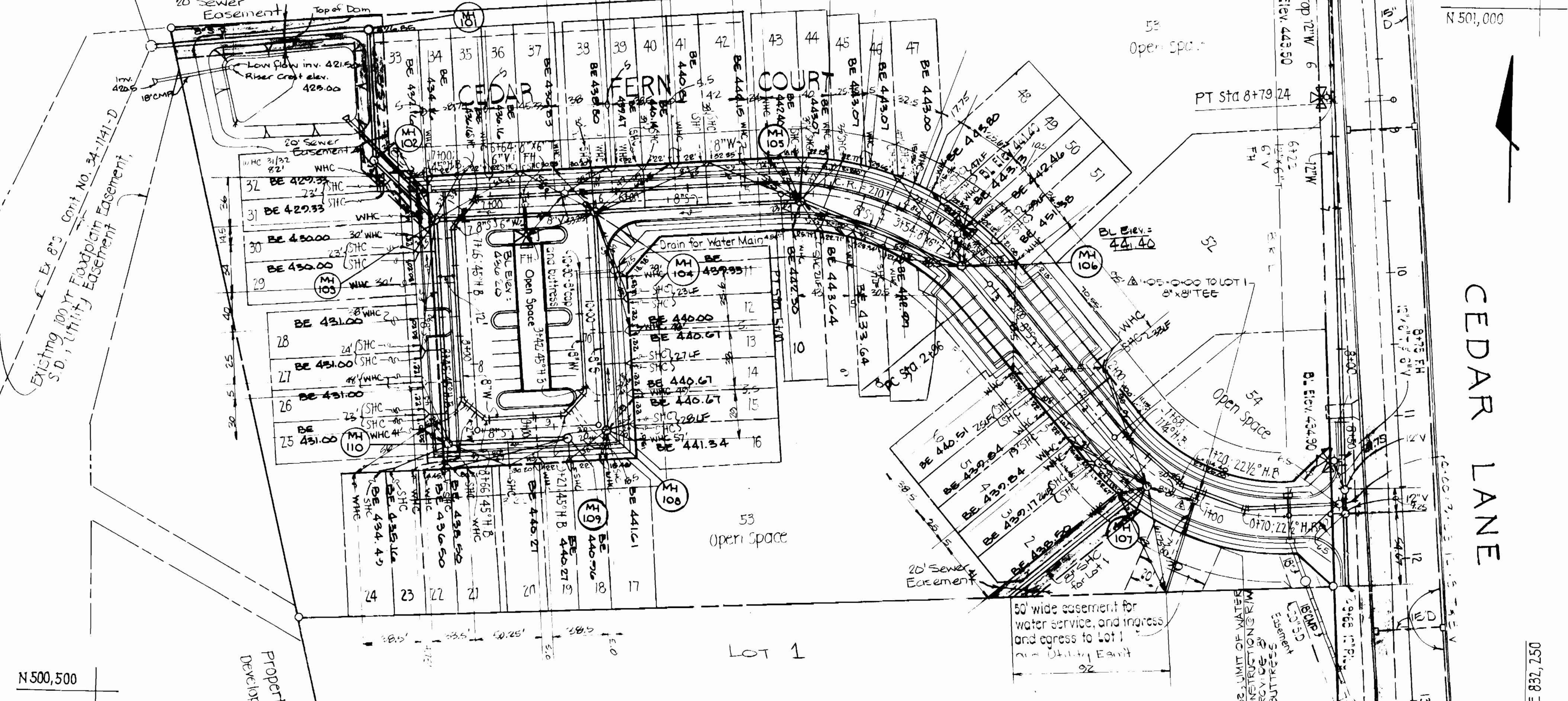


QUANTITIES							
ITEM	EST.	AS BUILT	ITEM	EST.	AS BUILT	ITEM	EST.
8" S	1422 LF	1441 LF	22" x 4" H.B.	2	0	3/4" W	508 LF
SHC	775 LF	775 LF	11 7/4" H.B.	1	1	1" W	302 LF
Manhole	87 VF	87 VF	45" H.B.	0	8	2" W	95 LF
12" V	3	3	8" x 6" T	2	2	8" x 8" Tee	1
8" W	1062 LF	1132 LF	12" x 6" T	3	3		
12" W	968 LF	968 LF	12" x 8" T	1	1		
SHC	238 LF	238 LF	8" x 12" Reducer	1	1		
FH	0	5	8" Cop	1	1		
C.V	5	5	12" Plug	1	1		
B.V	3	3					

Property of Howard County Teachers Association
627/0197, Zoned RSC

Note: Provide water tight manhole covers for
MH's 101 & 102 and set 1'-6" above grade.

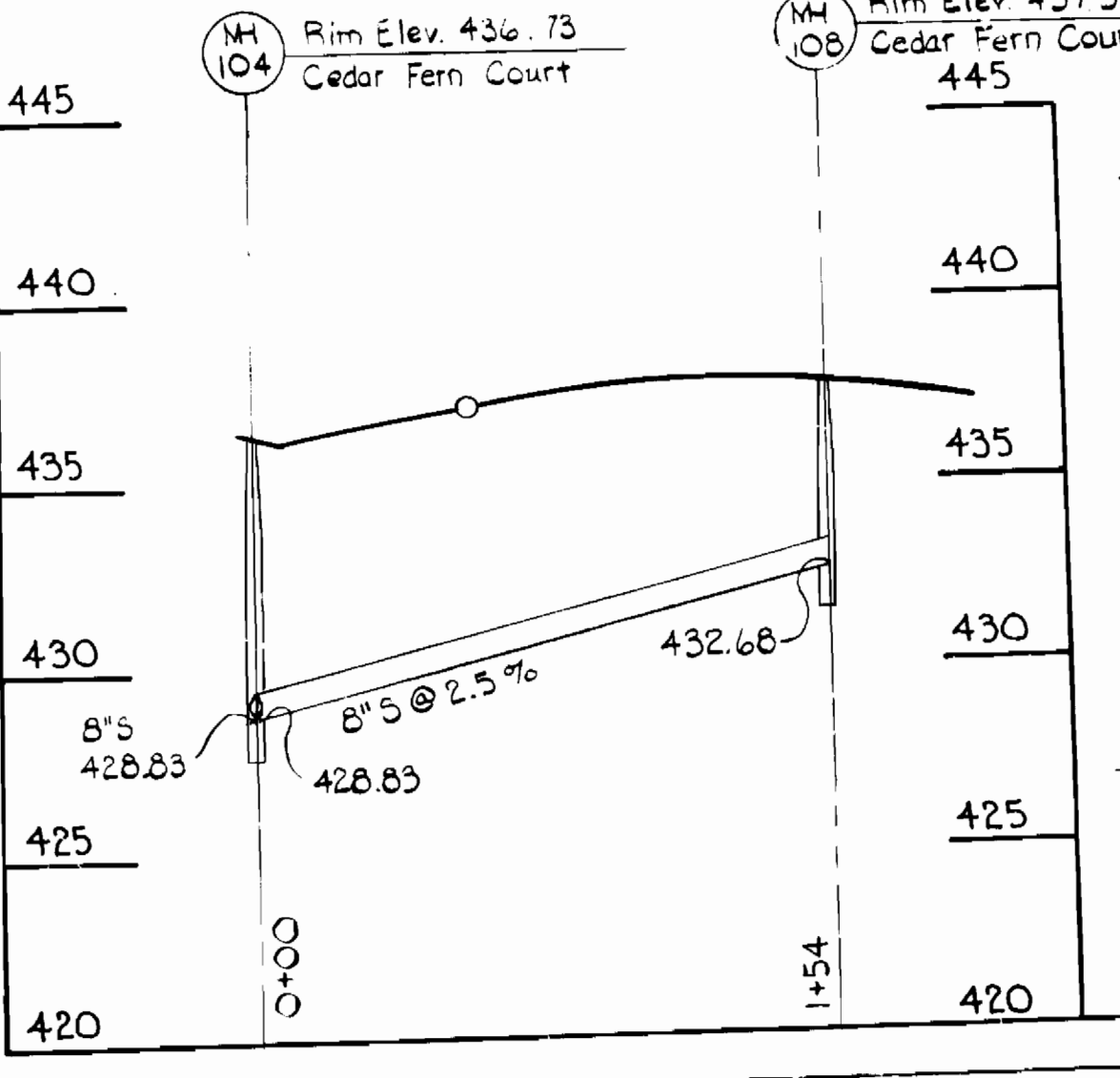
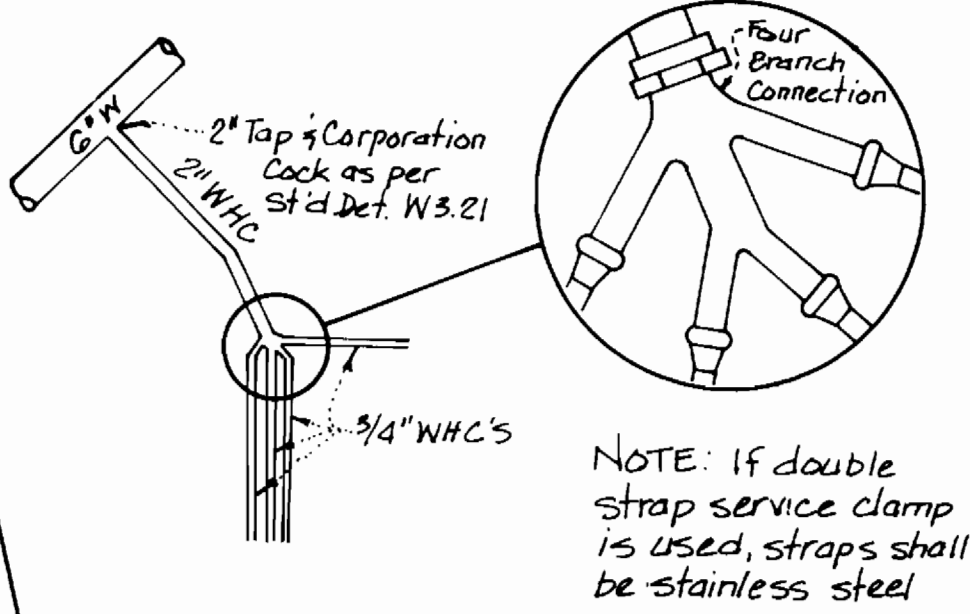


TYPE OF BUILDING: SINGLE FAMILY
NO. OF LOTS: 52
NO. OF WATER HOUSE CONN.: 52
NO. OF SEWER HOUSE CONN.: 52
DRAINAGE AREA: MIDDLE PATUXENT

VICINITY MAP
SCALE: 1"=600'
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. DATA.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6'.
- 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
 - MISSISSIPPI - 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. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- 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 WITH SECTION 1003 AND 1008 OF 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 SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS. (STD DETAIL W 321)
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED SO AS TO HAVE AT LEAST ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS STANDARD DETAIL G 5.52 WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL SEWER MAINS SHALL BE C.S.P.X., R.C.S.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 FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G 5.52 WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- MANHOLES LOCATED WITHIN PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAME AND COVER, STANDARD DETAIL G 5.51.

Lot No. (s)	Invert E. of
2 and 3	432.97
4	432.70
5 & 6	432.51
50 & 51	432.04
48 & 49	431.94
7 & 8	430.98
46 & 47	431.62
45	431.13
7 & 10	430.70
43 & 44	430.62
41 & 42	430.22
39 & 40	429.78
38	429.39
36 & 37	427.95
34 & 35	426.73
33	425.07
31 & 32	423.72
29 & 30	425.55
27 & 28	426.24
25 & 26	426.69
24	427.45
22 & 23	427.01
21	431.64
20	432.08
18 & 19	432.54
17	433.00
15 & 16	433.04
13 & 14	431.84
11 & 12	430.73



CEDAR ACRES
Block 3
PB 4 - F. 11
Zoned RSC

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DIRECTOR OF PUBLIC WORKS: [Signature] 10/1/86
CHIEF, BUREAU OF UTILITIES: [Signature] 11/15/86
CHIEF, BUREAU OF ENGINEERING: [Signature] 10/3/86
CHIEF, LAND DEVELOPMENT DIVISION: [Signature] 11/8/86

PURDUM & JESCHKE
CONSULTING ENGINEERS
LAND SURVEYORS
1029 NORTH CALVERT STREET
BALTIMORE, MARYLAND 21202 301/837-0194

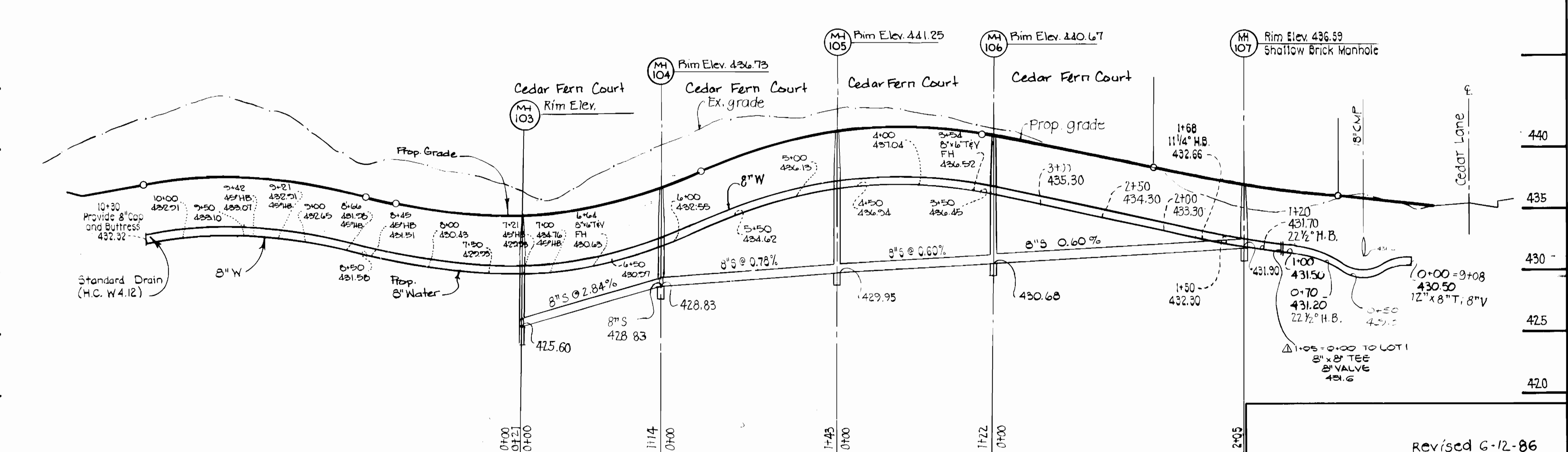
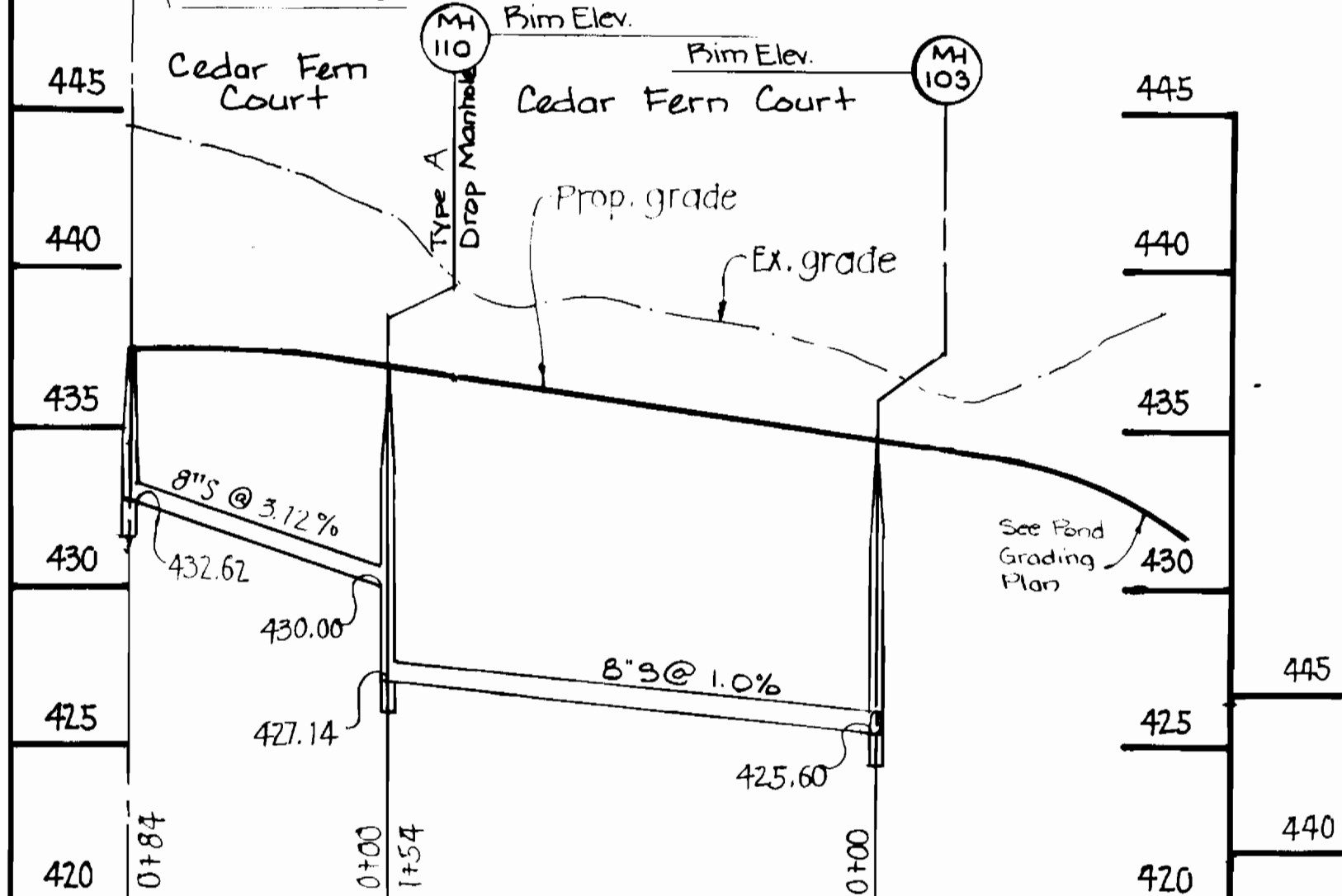
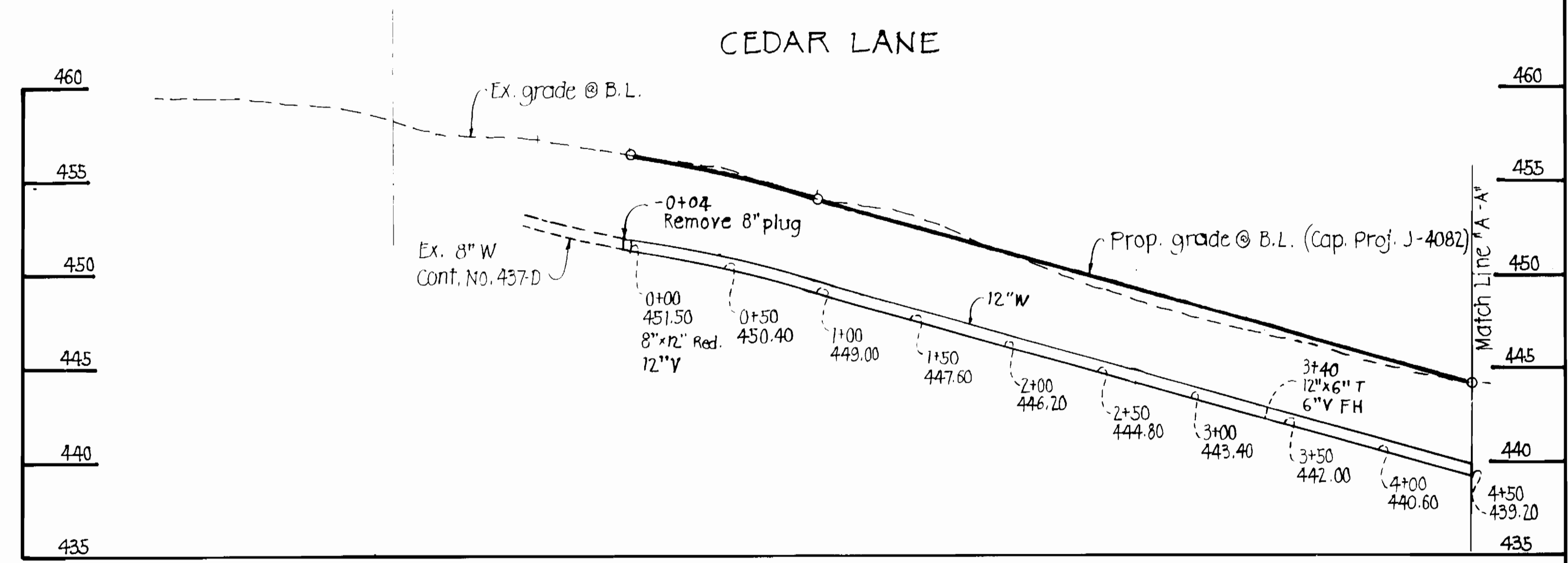
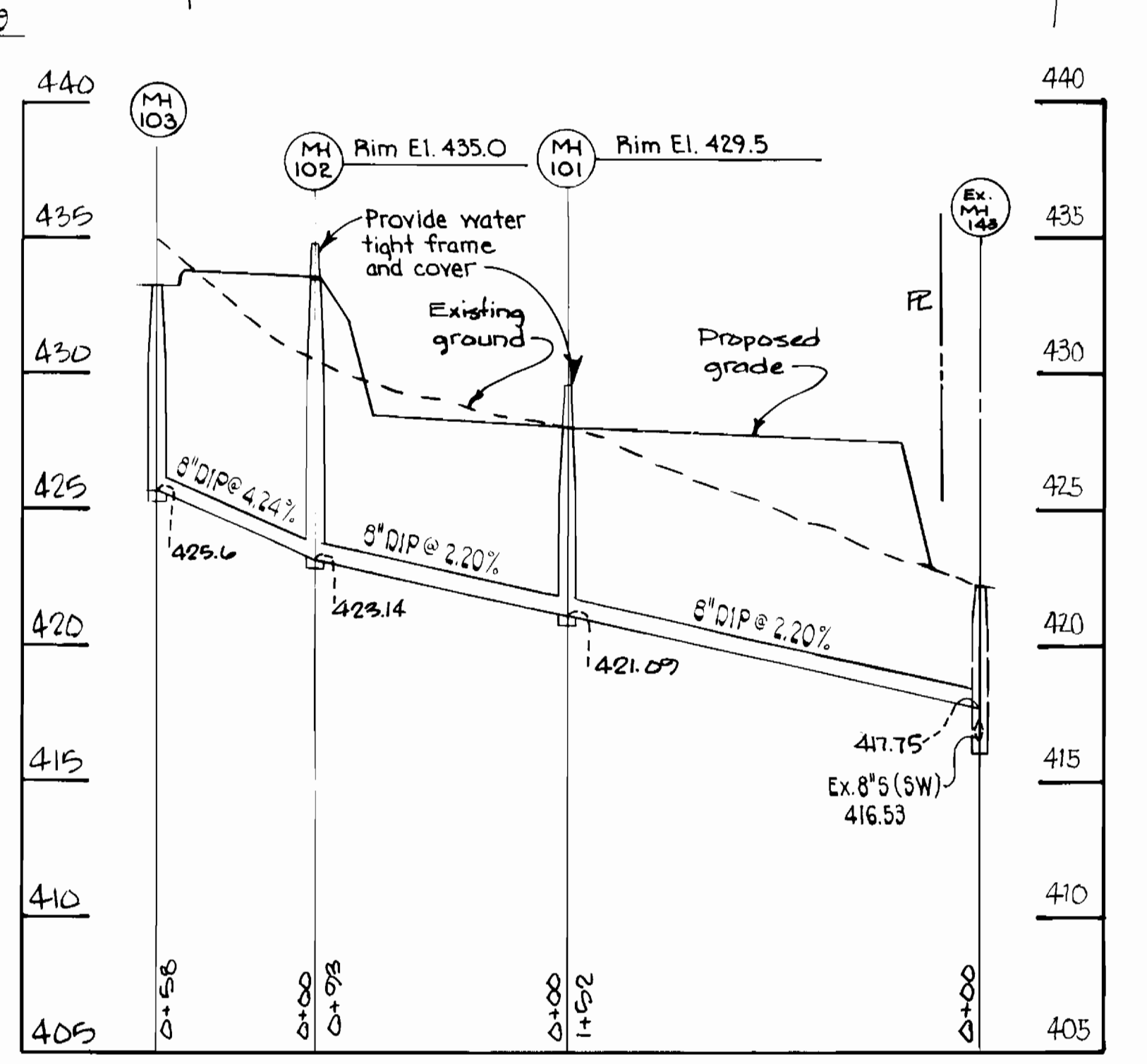
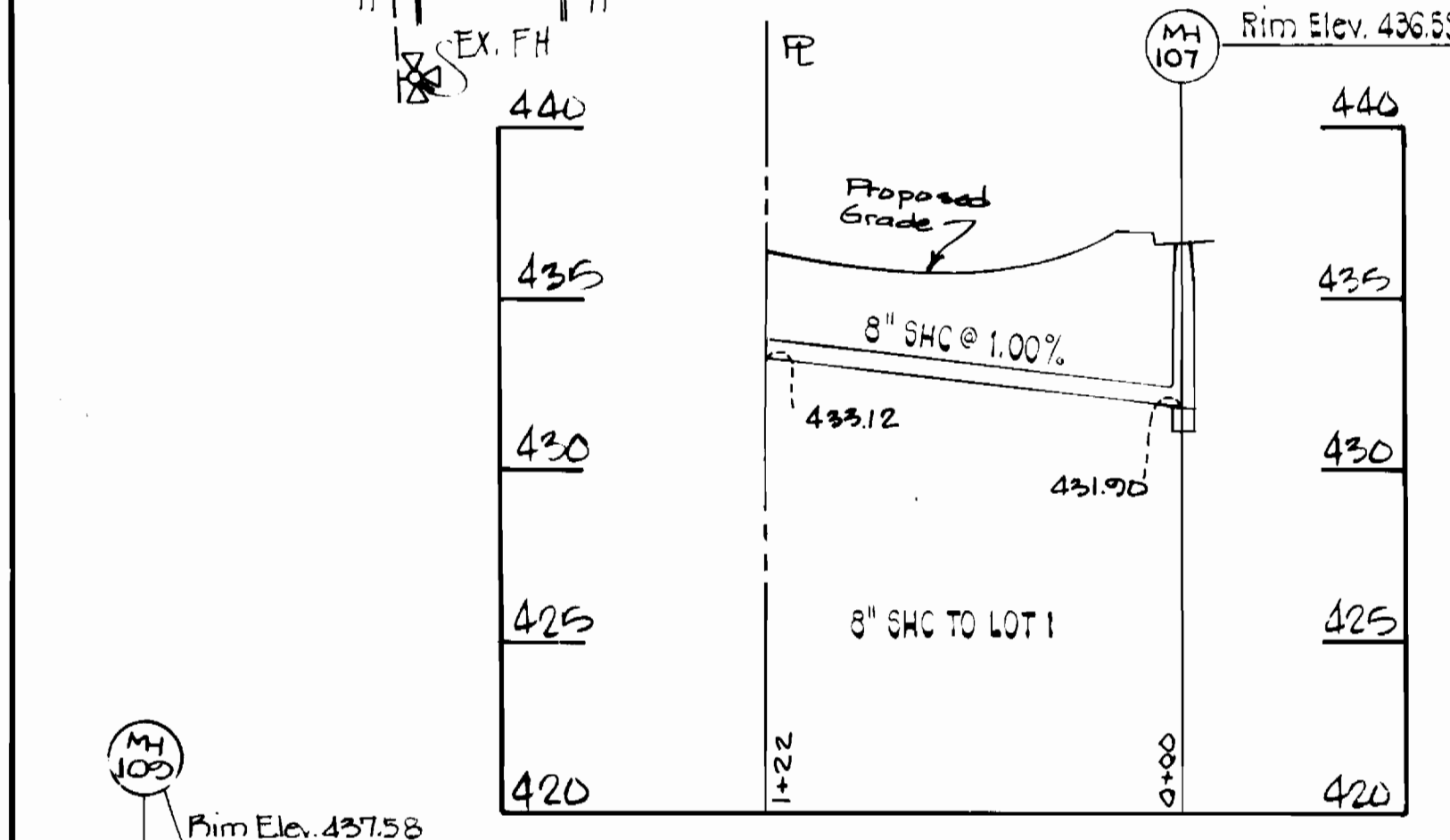
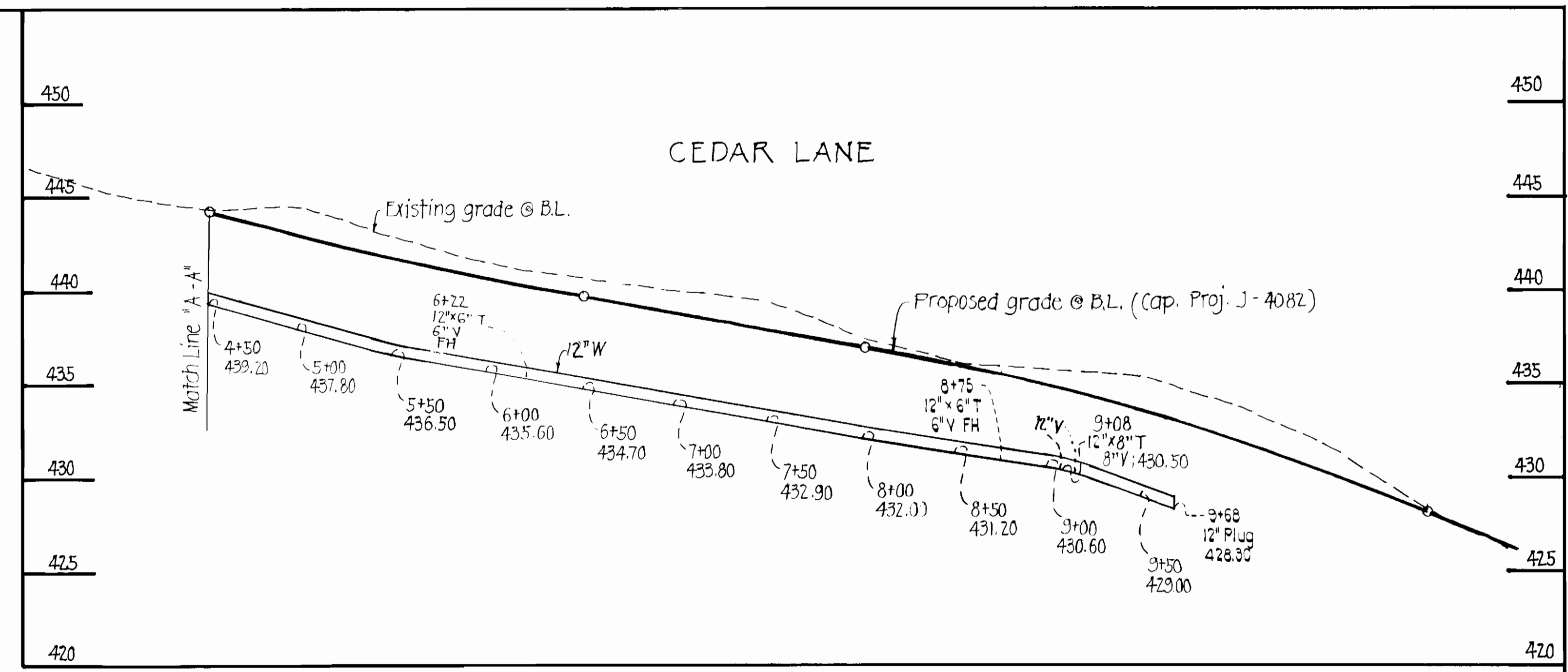
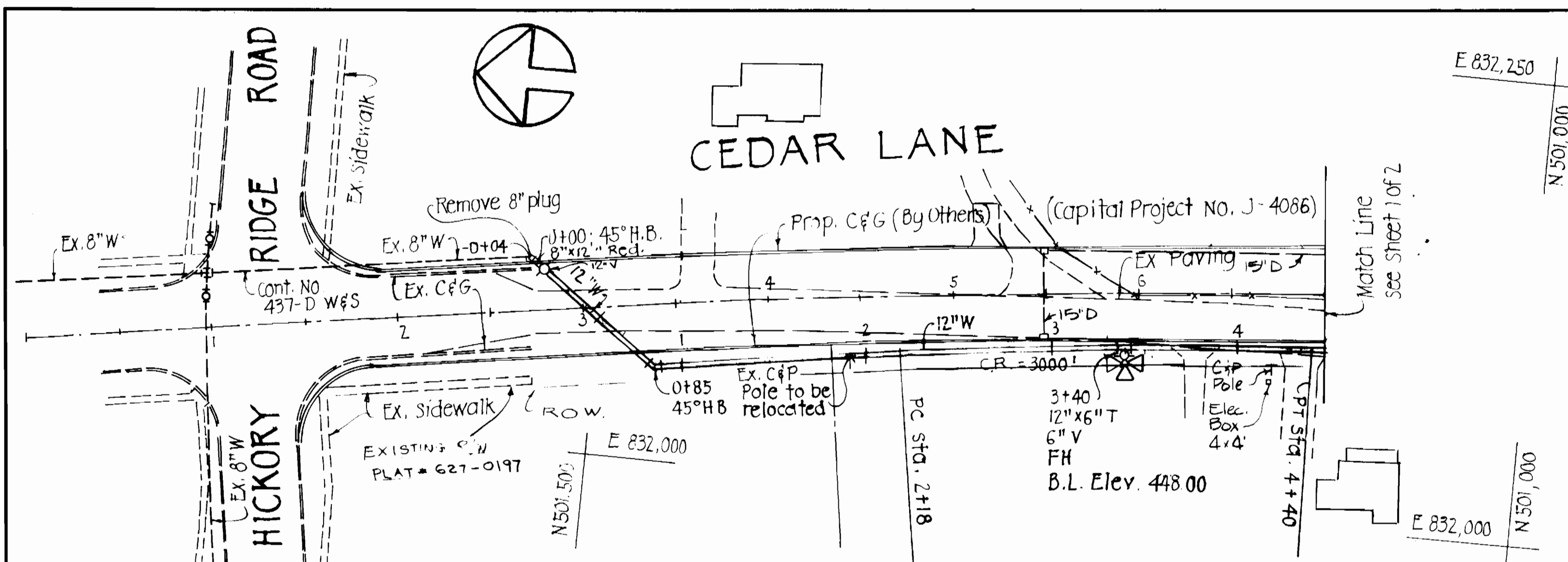
DES: A.R.T.	M.A.H. 1	Manhole Numbers / Profiles	9/25/86
DRN: A.R.T.	D.A.N. 2	REVISE CONNECTION TO LOT 1	4/1/87
CHK: A.R.T.	D.A.N. 2	REVISE QUANTITIES; CONNECTION TO LOT 1	4/1/87
DATE:	BY NO.	REVISION	DATE

WATER AND SEWER MAINS
PLAN
600' SCALE MAP NO. 33 BLOCK NO.

CEAR WOODS
5th ELECTION DISTRICT
CONTRACT NO. 34-1505-D
(LOTS 1 THRU 55)
SCALE 1"=50'
SHEET 1 OF 2

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
SIGNATURE: [Signature] DATE: 9/24/86
U.S. SOIL CONSERVATION SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
APPROVED: [Signature] DATE: 9/24/86
Ho. Co. Soil Cons. Dist. DATE



Sediment Control Measures will be implemented in accordance with Article No. 15 of the Specifications & with Road Construction Plan F, Drawing Sediment & Erosion Control

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

SIGNATURE: *[Signature]* DATE: 9-29-86

US SOIL CONSERVATION SERVICE

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

APPROVED: *[Signature]* DATE: 9/29/86

Howard S.C.D.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 10-9-86
DIRECTOR OF PUBLIC WORKS

[Signature] 10-9-86
CHIEF, BUREAU OF ENGINEERING

[Signature] 10-9-86
CHIEF, BUREAU OF UTILITIES

[Signature] 10-9-86
CHIEF, LAND DEVELOPMENT DIV.

PURDUM & JESCHKE
ENGINEERS
1029 N. CALVERT ST.
BALTIMORE, MARYLAND

[Signature]

DES. A.R.T.	D.A.N.	Δ	REVISION CONNECTION TO LOT 1	DATE
				9/1/86
DRN. A.R.T.				
CHK. A.R.T.				
DATE:	BY:	NO:	REVISION:	DATE:

**WATER AND SEWER MAINS
PLAN & PROFILES**

600' SCALE MAP NO. 35 BLOCK NO.

CEDAR WOODS
5th ELECTION DISTRICT
CONTRACT NO. 34-1505-D
(LOTS 1 THRU 55)

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

SHEET
2 OF 2