

COLUMBIA

HOWARD COUNTY, MARYLAND

6 ELECTION DISTRICT

VILLAGE OF LONGREACH SEC. 1 AREA 11

WATER & SEWER MAINS

CONTRACT NO. 24-1843-D

GENERAL NOTES

PART I

- 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. UNDERGROUND DAMAGE CONTROL - 234-5621
 - BALTIMORE GAS & ELECTRIC CO. TROUBLE SHOOTING - 298-9013
 - MSS 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. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.

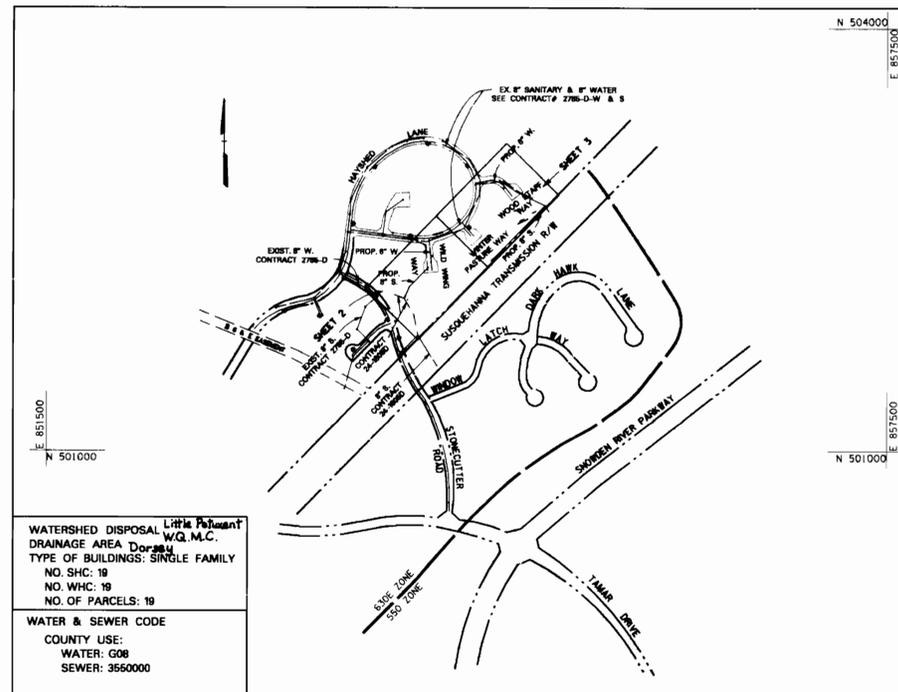
PART II - WATER

- 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 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.
- ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH A.W.W.A. SPECIFICATION C-153 DUCTILE IRON COMPACT FITTINGS, 3 INCH THROUGH 12 INCH FOR WATER AND OTHER LIQUIDS.

PART III - SEWER

- ALL SEWER MAINS SHALL BE C.S.P., 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.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- 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 65.52. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

QUANTITIES			
ITEM	ESTIMATED	AS BUILT	MATERIAL/SUPPLIER
8" SEWER	1098 L.F.		
MANHOLE - EA.	6 Ea.		
MANHOLE - VD.	54 VF.		
6" SAN. H.C.	650 L.F.		
3/4" W. H.C.	395 L.F.		
1" W. H.C.	307 L.F.		
6" WATER	450 L.F.		
FIRE HYDRANT	2 Ea.		
8" D.I.P.	88 L.F.		



LOCATION MAP

SCALE: 1" = 600'

BENCH MARKS

- B.M.# 2643006 - ELEV. 436.053
 DESCRIPTION: LOCATED ON TRANSMISSION LINES 100' S.W. OF B.G. & E. TOWER #12 & 12-E WHICH ARE SECOND PAIR OF B.G. & E. TOWERS S.W. OF RTE. # 108
- B.M.# 2643008 - ELEV. 437.481
 DESCRIPTION: LOCATED ON TRANSMISSION LINES 792' N.E. OF DOBBIN ROAD ON A RISE BETWEEN B.G. & E. TOWER # M & ME, NEAR SUPPLY YARD

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH THIS PLAN, WITH ARTICLE 15 OF THE STANDARD SPECIFICATIONS, AND ROAD CONSTRUCTION DRAWING: F-88-239.

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

James M. Hahn 11-3-88
 SIGNATURE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.

APPROVED *[Signature]* 11/3/88
 HOWARD S.C.D. DATE

VILLAGE OF LONGREACH
 SEC. 1 AREA 11
 WATER & SEWER MAIN EXTENSIONS
 CONTRACT 24-1843-D

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DAFT - McCUNE -
 WALKER, INC.



DESIGN BY:			
DRAWN BY:			
CHECKED BY:			
DATE:			
BY NO.		REVISION	DATE

TITLE SHEET

WATER & SEWER MAINS

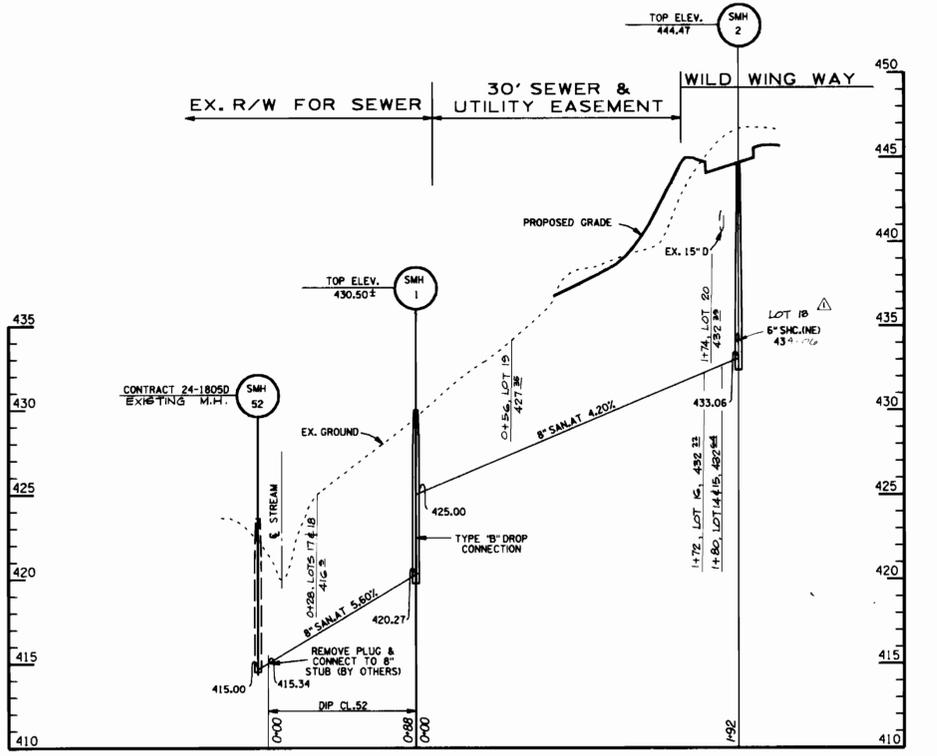
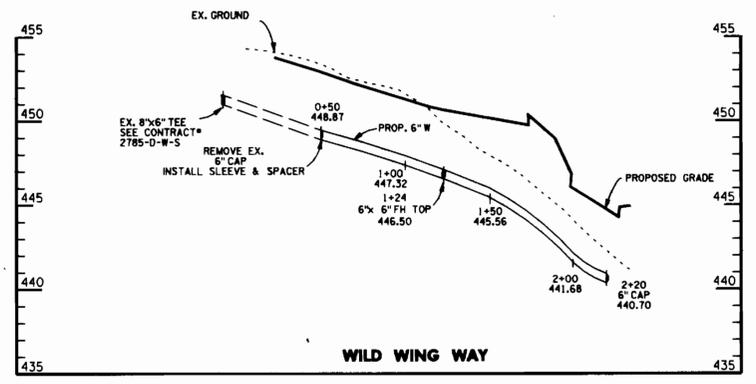
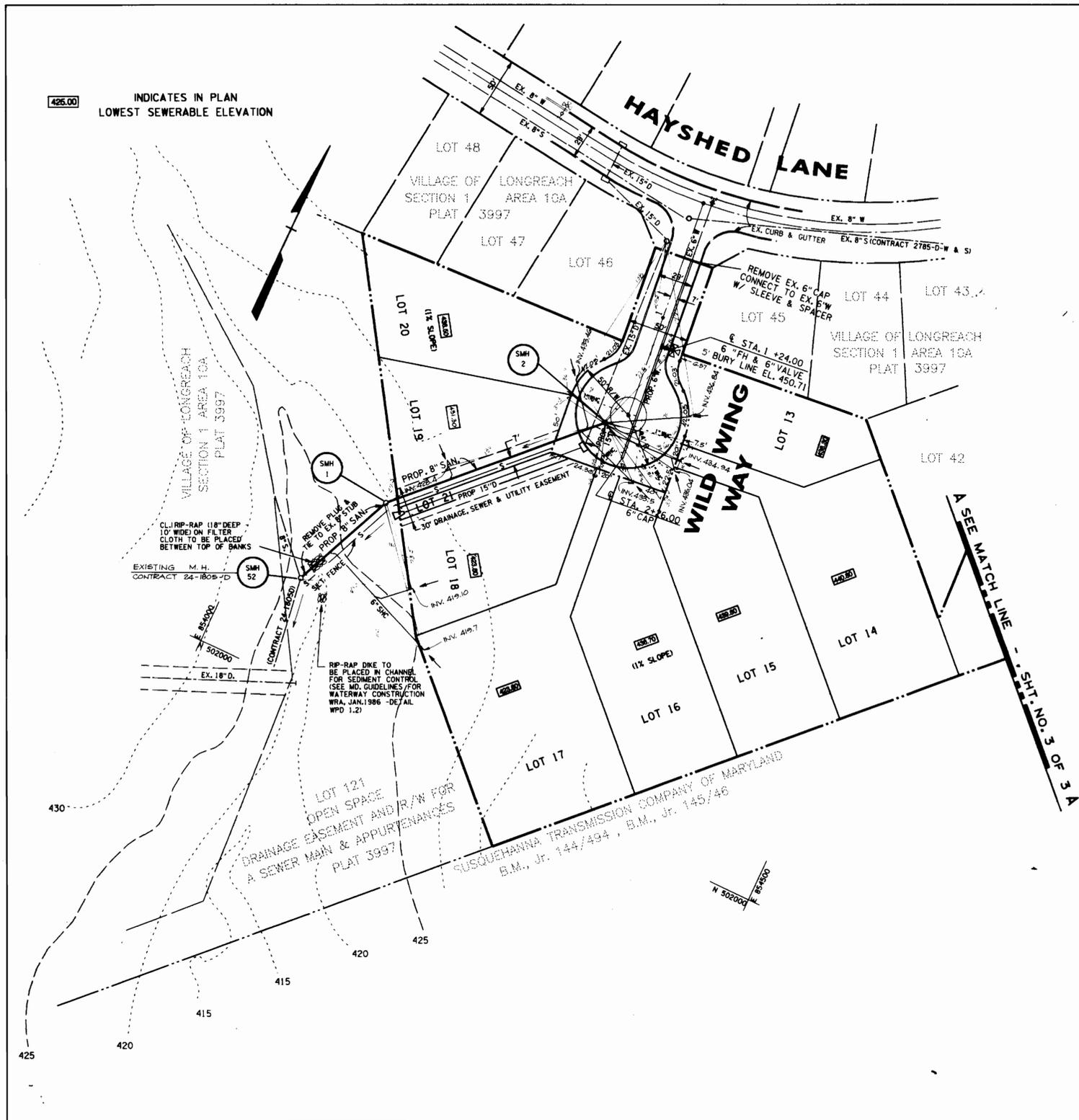
VILLAGE OF LONGREACH

SECTION 1
 8TH ELECTION DISTRICT

AREA 11
 HOWARD CO., MARYLAND

SCALE AS SHOWN
 SHEET 1 OF 3

CONTRACT NO. 24 - 1843 - D



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

John M. Taha 11-3-88
SIGNATURE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT

APPROVED *John P. Taha* 11-3-88
HOWARD S.C.D. DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James M. Taha 11/3/88
DIRECTOR OF PUBLIC WORKS - DATE

Richard M. Taha 11/3/88
Acting CHIEF - BUREAU OF ENGINEERING - DATE

Donald J. Taha 11/2/88
CHIEF - BUREAU OF UTILITIES - DATE

Donald J. Taha 11/2/88
CHIEF - LAND DEVELOPMENT DIVISION - DATE

DAFT - McCUNE - WALKER, INC.
LAND PLANNING CONSULTANTS
LANDSCAPE ARCHITECTS
ENGINEERS

200 E. PENNSYLVANIA AVE.
TOWSON, MARYLAND 21204

DESIGN BY:	JDC			
DRAWN BY:	DMA			
CHECKED BY:	JWR			
DATE:	5/3/88			
BY:	NO.			
REVISION:				
DATE:				

PLAN & PROFILE FOR
WATER & SEWER MAINS

600 SCALE MAP NO. _____ BLOCK NO. _____

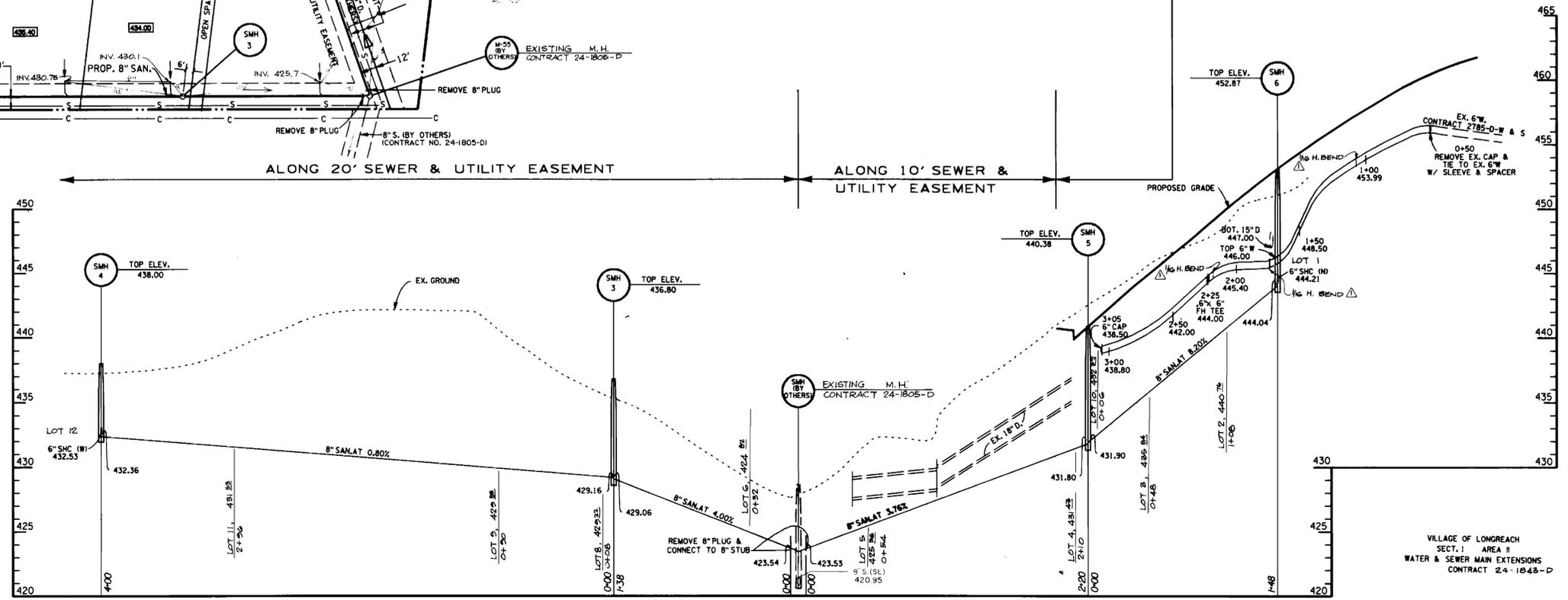
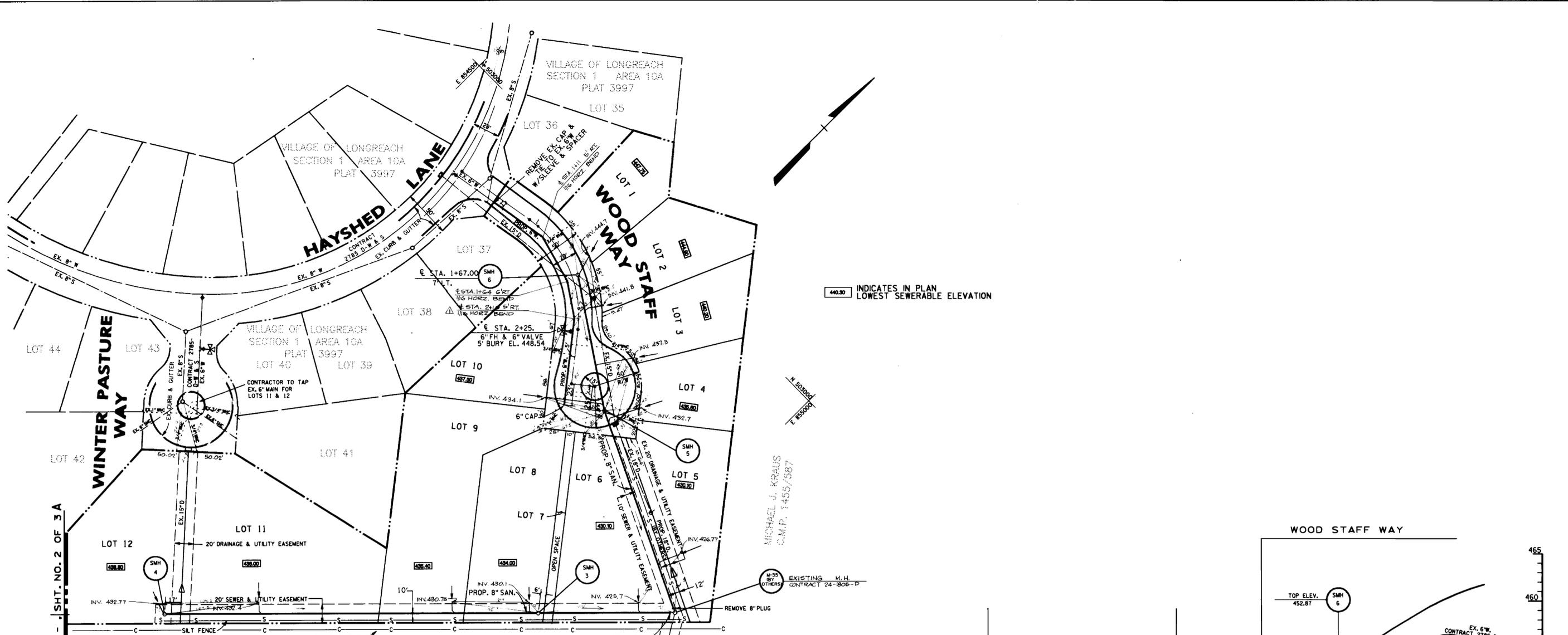
VILLAGE OF LONGREACH
SECTION 1
6TH ELECTION DISTRICT

AREA 11
HOWARD CO. MARYLAND

CONTRACT NO. 24-1843-D

PLAN: 1"-80'
PROFILES:
HOR. 1"=80'
VERT. 1"=8'

SHEET
2 OF 3



REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

James M. [Signature] 11-5-88
SIGNATURE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.

APPROVED *Stephen T. [Signature]* 11/3/88
HOWARD S.C.D. DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James M. [Signature] 11/3/88
DIRECTOR OF PUBLIC WORKS - DATE

Stephen T. [Signature] 11/2/88
CHIEF - BUREAU OF UTILITIES - DATE

[Signature] 11/3/88
CHIEF - LAND DEVELOPMENT DIVISION - DATE

DAFT - McCUNE - WALKER, INC.
LAND PLANNING CONSULTANTS
LANDSCAPE ARCHITECTS
ENGINEERS

200 E. PENNSYLVANIA AVE.
TOWSON, MARYLAND 21284



DESIGN BY:	JDC
DRAWN BY:	DMA
CHECKED BY:	JWR
DATE:	5/3/88
BY:	NO.
REVISION:	
DATE:	12-19-88

PLAN & PROFILE FOR
WATER & SEWER MAINS

600 SCALE MAP NO. _____ BLOCK NO. _____

VILLAGE OF LONGREACH
SECTION 1
6TH ELECTION DISTRICT

AREA 11
HOWARD CO. MARYLAND

CONTRACT NO. 24-1843-D

PLAN-T-87
PROFILES:
HOR. 1"=50'
VER. 1"=5'

SHEET
3 OF 3