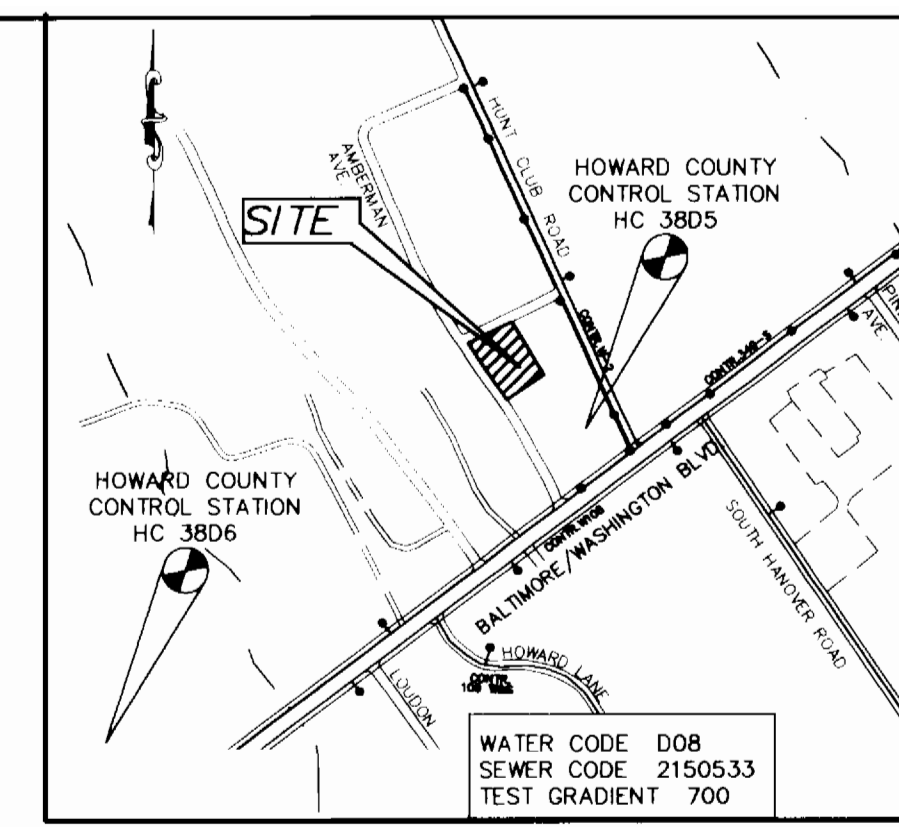


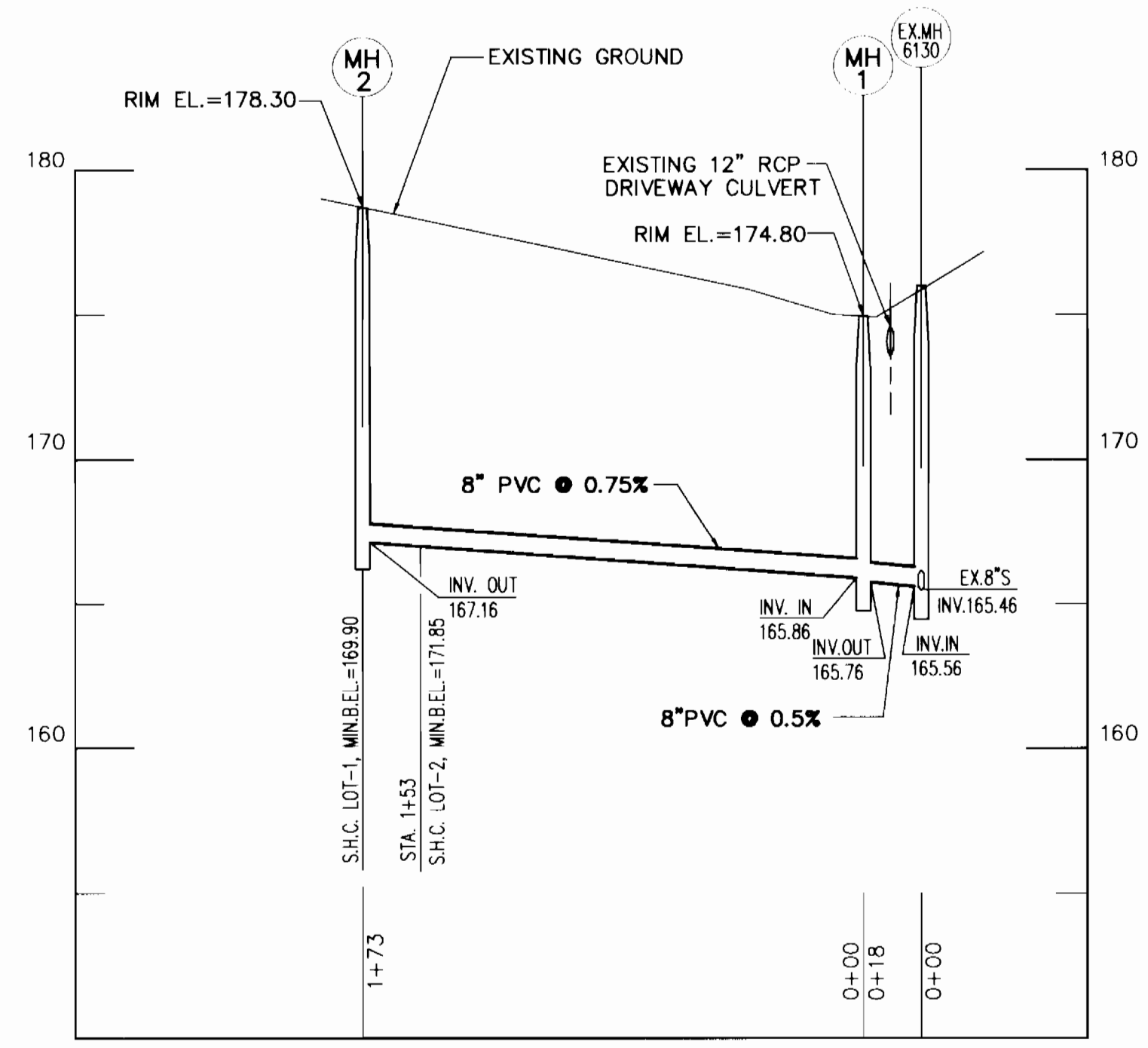
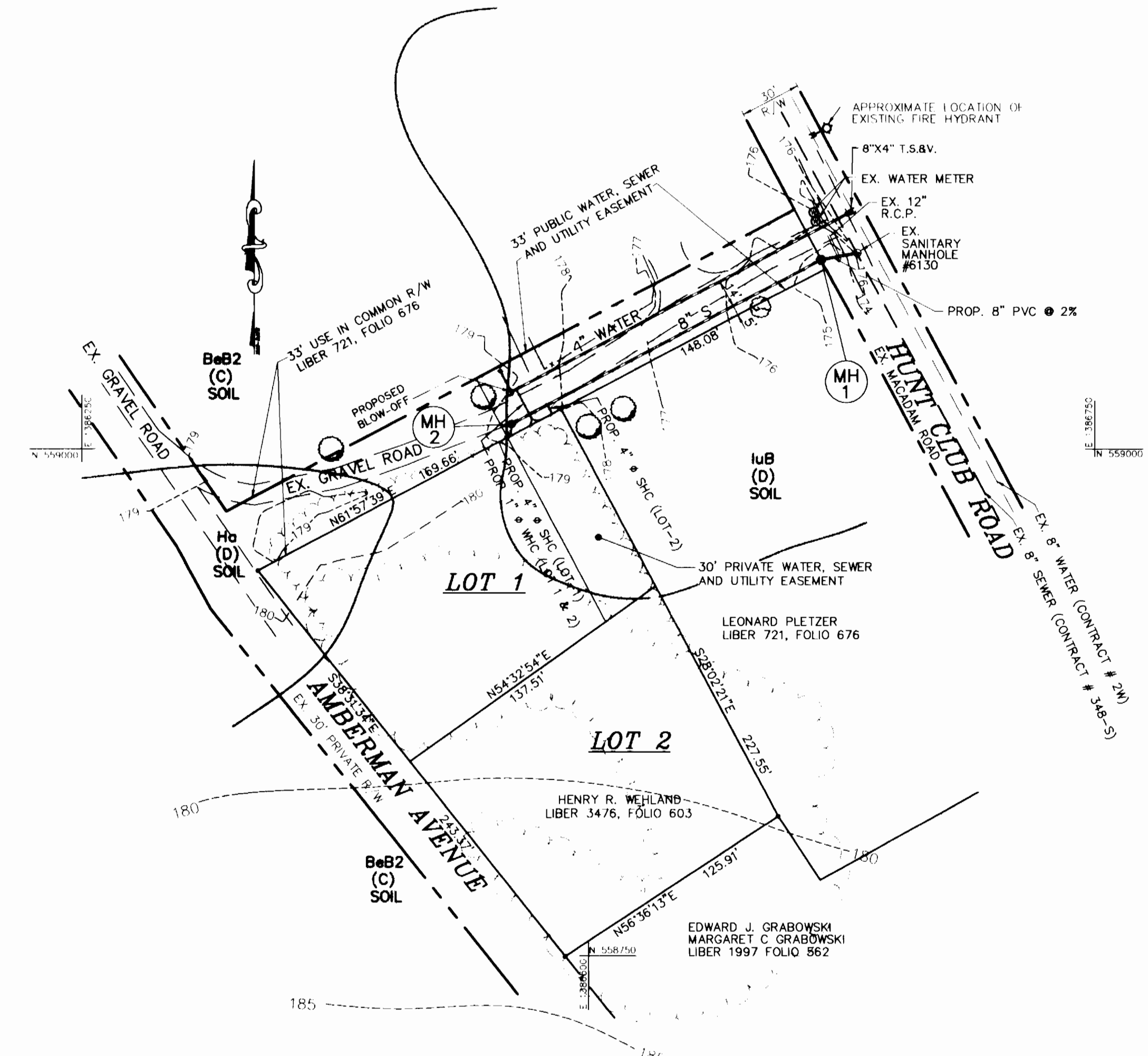
3442 WS/1 WEHLAND PRCP.



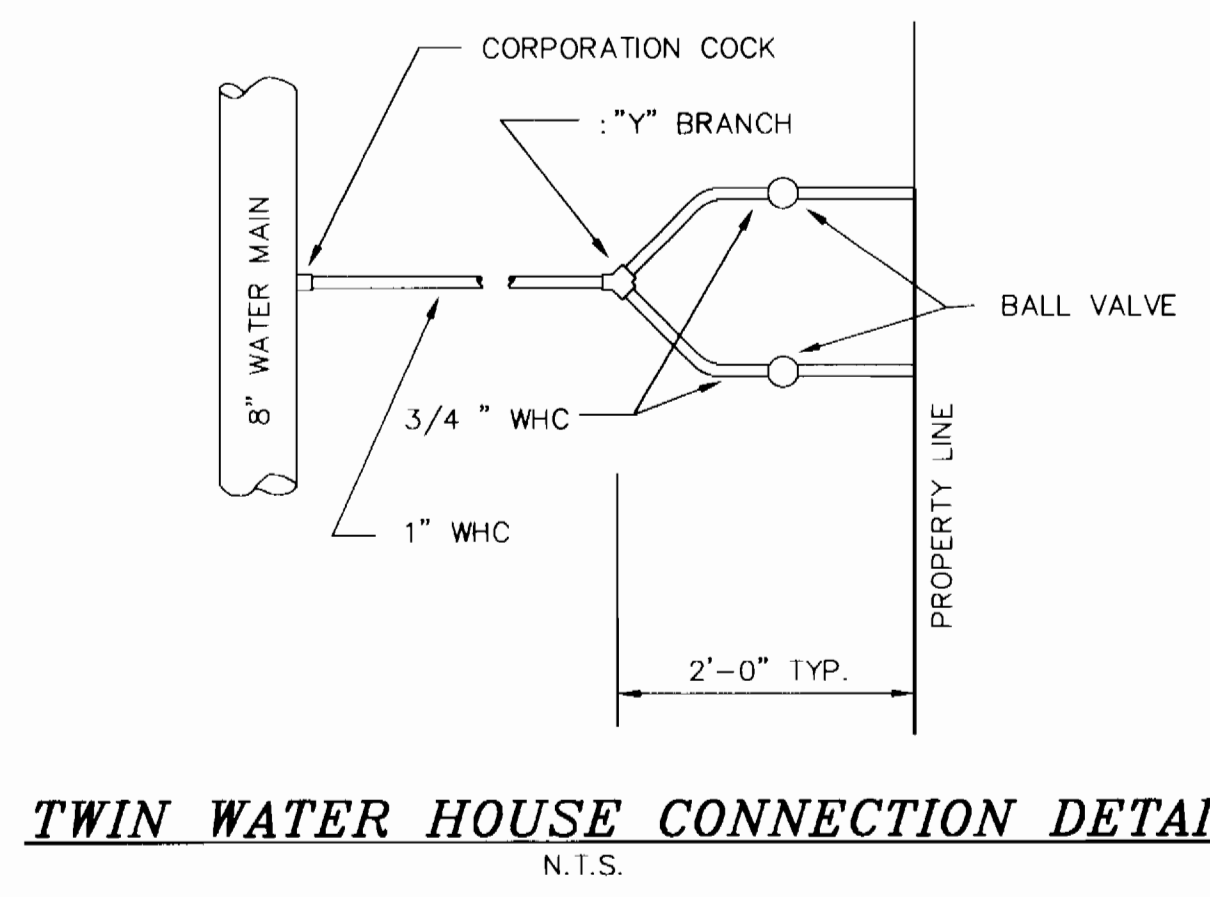
VICINITY MAP
SCALE: 1" = 600'

TYPE OF BUILDING	RESIDENTIAL
No. OF LOTS/PARCELS	2
No. OF WATER HOUSE CONNECTIONS	2
No. OF SEWER HOUSE CONNECTIONS	2
DRAINAGE AREA	PATAFSCO
TERRAIN PLAN	PATAFSCO

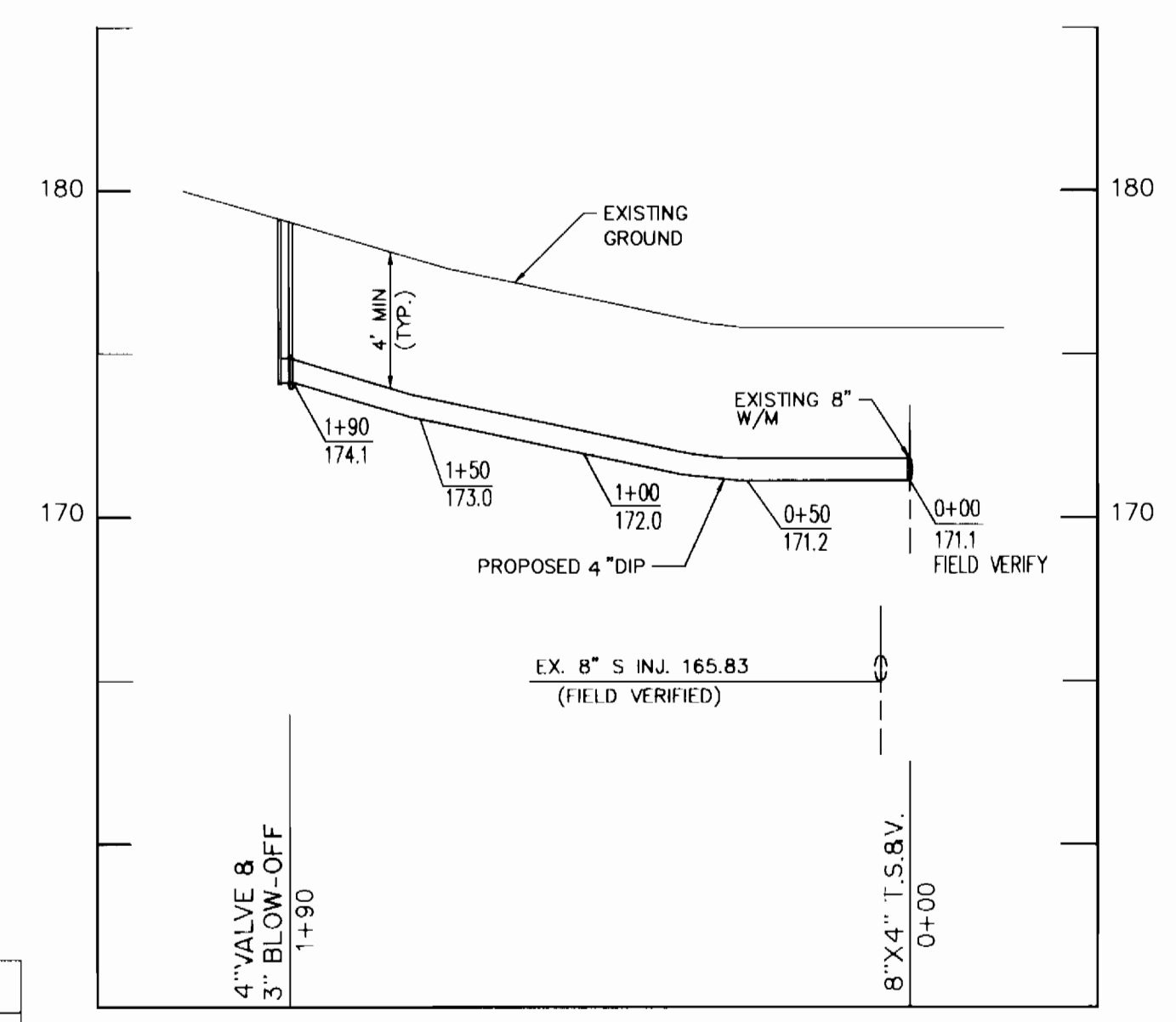
WATER CODE DOB
SEWER CODE 2150533
TEST GRADIENT 700



PROPOSED 8" SEWER PROFILE
SCALE: HOR. 1" = 50'
VER. 1" = 5'



TWIN WATER HOUSE CONNECTION DETAIL
N.T.S.



PROPOSED 4" WATER PROFILE
SCALE: HOR. 1" = 50'
VER. 1" = 5'

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". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL REQUIRED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAIL FOR CONSTRUCTION (LATEST EDITION). 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 LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
STATE HIGHWAY ADMINISTRATION 531-5533
BG & E CO. CONTRACTOR SERVICES 850-4620
BG & E CO. UNDERGROUND DAMAGE CONTROL 787-9068
MISS UTILITY 1-800-257-7777
COLONIAL PIPELINE CO. 795-1390
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF UTILITIES 313-4900
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITH 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 IN ACCORDANCE WITH SECTION 1000 AND 1005 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 PLANS OR IN SPECIFICATIONS.
- ALL SEWER MAINS SHALL BE P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITH 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 G5.52. 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.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(c) OF THE HOWARD COUNTY CODE.

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER'S SIGNATURE: _____ DATE: _____
DEVELOPER'S NAME: _____

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

ENGINEER'S SIGNATURE: *Theresa Egan* DATE: 11/22/95
ENGINEER'S NAME: _____
REVIEWED FOR HOWARD SCD AND MEET TECHNICAL REQUIREMENTS.

USDA-NATURAL RESOURCES CONSERVATION SERVICE

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

John P. Robinson DATE: 11/22/95
HOWARD SCD

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8"x4" T.S. & V.	1			
3" BLOW-OFF w/ 4" V	1			
4" DIP	190 L.F.			
WHC	20 L.F.			
MH	2			
8" PVC	191 L.F.			
SHC	10 L.F.			

NAME OF UTILITY CONTRACTOR _____
SURVEY AND DRAFTING DIVISION AS-BUILT DATE _____

WATER MAIN TABULATION				MANHOLE TABULATION			SEWER HOUSE CONNECTION TABLE				
WATER MAIN STA.	APPURTENANCE	MH #	SEWER MAIN STA.	RIM EL.	LOT #	SLOPE	INV. @ PL	MIN BASEMENT EL.	TYPE OF CONNECTION		
0+00	8"x4" T.S. & V.	1	0+18	174.80	1	2.00%	167.70	169.90	SHC @ MH		
1+90	3" BLOW OFF w/ 4" V	2	1+73	178.30	2	2.00%	167.45	171.85	SHC		

PLAN REFERENCE NUMBERS
F-96-08

CONTRACT NO. 14-3442-D
WEHLAND PROPERTY
LOTS 1 & 2
WATER AND SEWER EXTENSION
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John P. Robinson 11-20-95
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

John P. Robinson 11/22/95
CHIEF, DEVELOPMENT ENGINEERING DIVISION

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Fax (301) 621-5521 Wash (410) 997-0298 Fax

M.P.					
illustration	M.P.				
approval	J.H.				
project	94026				
date	OCT.95	BY	NO.	REVISION	DATE

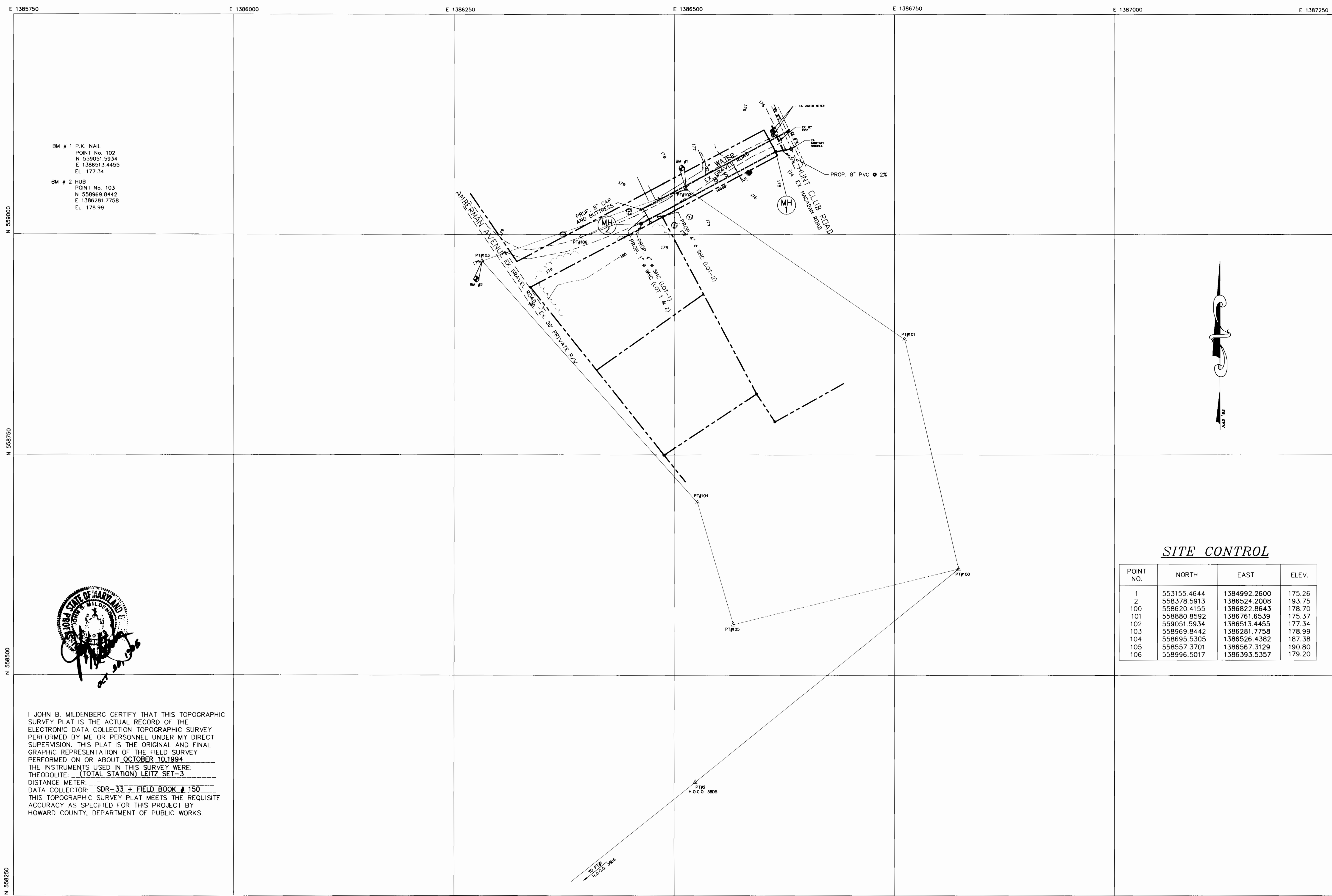
WATER AND SEWER PLAN AND PROFILES

600' SCALE MAP NO. 38 BLOCK NO. 7

WEHLAND PROPERTY
LOTS 1 & 2
CONTRACT-NO 14-3442-D
1ST-ELECTION DISTRICT
HOWARD-COUNTY

scale 1"=50'
1 OF 1

344Z WEHLAND PROP. / TOPO SHIT.



BM # 1 P.K. NAIL
 POINT No. 102
 N 559051.5934
 E 1386513.4455
 EL. 177.34

BM # 2 HUB
 POINT No. 103
 N 558969.8442
 E 1386281.7758
 EL. 178.99

TOPOGRAPHIC
 SURVEY
 PLAT

LEGEND

- R/W LINE, LOT LINE
- ~ EDGE OF TREE LINE
- o IRON PIPE FOUND

SUBD. NAME WEHLAND PROPERTY
 SEC. _____ AREA _____
 STREET NAME AMBERMAN AVE. _____
 CAP. PROJ. NO. _____
 CONTRACT NO. 14-3442-D _____
 FIELD BOOK NO. 150 _____
 SCALE: 1"=50'

SITE CONTROL

POINT NO.	NORTH	EAST	ELEV.
1	553155.4644	1384992.2600	175.26
2	558378.5913	1386524.2008	193.75
100	558620.4155	1386822.8643	178.70
101	558880.8592	1386761.6539	175.37
102	559051.5934	1386513.4455	177.34
103	558969.8442	1386281.7758	178.99
104	558695.5305	1386526.4382	187.38
105	558557.3701	1386567.3129	190.80
106	558996.5017	1386393.5357	179.20



I JOHN B. MILDENBERG CERTIFY THAT THIS TOPOGRAPHIC SURVEY PLAT IS THE ACTUAL RECORD OF THE ELECTRONIC DATA COLLECTION TOPOGRAPHIC SURVEY PERFORMED BY ME OR PERSONNEL UNDER MY DIRECT SUPERVISION. THIS PLAT IS THE ORIGINAL AND FINAL GRAPHIC REPRESENTATION OF THE FIELD SURVEY PERFORMED ON OR ABOUT OCTOBER 10, 1994. THE INSTRUMENTS USED IN THIS SURVEY WERE: THEODOLITE: (TOTAL STATION) LEITZ SET-3 DISTANCE METER: SDR-33 + FIELD BOOK # 150 DATA COLLECTOR: THIS TOPOGRAPHIC SURVEY PLAT MEETS THE REQUISITE ACCURACY AS SPECIFIED FOR THIS PROJECT BY HOWARD COUNTY, DEPARTMENT OF PUBLIC WORKS.

PREPARED BY:
MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 5072 Dorsey Hall Drive, Suite 202, Elkton City, Maryland 21042
 (410) 397-0296 Bal. (301) 621-5521 Vaux (410) 397-0298 Fax

4			8		
3			7		
2			6		
1			5		
NO.	REVISION	DATE	NO.	REVISION	DATE