

TYPE OF BUILDINGS	COMMERCIAL
NO. OF PARCELS	8
NO. OF WHC's	9
NO. OF SHC's	8
DRAINAGE AREA	SHALLOW RUN
WASTEWATER TREATMENT PLANT	PATAPSCO

TROY HILL CORPORATE CENTER

PARCEL A-1 THRU A-7

PHASE I - U.S. RTE. #1

QUANTITIES				
ITEMS	QTY. ESTIMATE	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
8" PVC SAN.	3027 LF	3027 LF.	PVC	J-M Manufacturing
8" D.I.P. SAN.	883 LF	864 LF.	DIP	Atlantic States
ST'D MH	15 EACH	15 Ea.	PRECAST CONCRETE	Atlantic Concrete Prod.
TERMINAL MH	1 EACH	1 Ea.	PRECAST CONCRETE	Atlantic Concrete Prod.
TYPE B DROP MH	2 EACH	2 Ea.	PRECAST CONCRETE	Atlantic Concrete Prod.
12" W	4030 LF	4149 LF.	DIP	Atlantic States
8" W	270 LF	226 LF.	DIP	Atlantic States
6" W	370 LF	375 LF.	DIP	Atlantic States
8" x 6" TEE	1 EACH	1 Ea.	DIP	Union Foundry
12" x 12" TEE	2 EACH	4 Ea.	DIP	Union Foundry
12" x 8" TEE	6 EACH	6 Ea.	DIP	Union Foundry
12" x 6" TEE	11 EACH	11 Ea.	DIP	Union Foundry
FIRE HYDRANT	10 EACH	12 Ea.	Cast Iron	Mueller Co.
12" VALVE	7 EACH	7 Ea.	Cast Iron Gate Valve	Mueller Co.
8" VALVE	6 EACH	6 Ea.	Cast Iron Gate Valve	Mueller Co.
6" VALVE	11 EACH	12 Ea.	Cast Iron Gate Valve	Mueller Co.
12" PLUG & BUTTRESS	3 EACH	4 Ea.	DIP CONCRETE	Union Foundry
8" PLUG & BUTTRESS	7 EACH	7 Ea.	DIP CONCRETE	Union Foundry
CONNECT TO EX. W/M	1 EACH	1 Ea.	DIP	Union Foundry
AIR RELEASE VALVE MH	1 EACH	1 Ea.	CONCRETE BRASS	APCO INDUSTRIES ATLANTIC CONCRETE

NAME OF UTILITY CONTRACTOR : Gaines & Co., Inc.
SURVEY AND DRAFTING DIVISION AS-BUILT DATE : 11/25/97

SHEET INDEX	
1	PROPOSED WATER MAIN & SEWER SYSTEM COVER SHEET
2-4	PROPOSED WATER AND SEWER PLAN SHEETS
5	PROPOSED PUBLIC SEWER SYSTEM PLAN AND PROFILE
6	PROPOSED PUBLIC WATER MAIN PROFILE
7	PROPOSED PUBLIC WATER MAIN & SEWER SYSTEM PROFILE
8	PROPOSED PUBLIC WATER MAIN PROFILE
9-10	PROPOSED PUBLIC SEWER SYSTEM PROFILES
11	PROPOSED PUBLIC WATER AND SEWER STUBS

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS AND GP 96-121

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

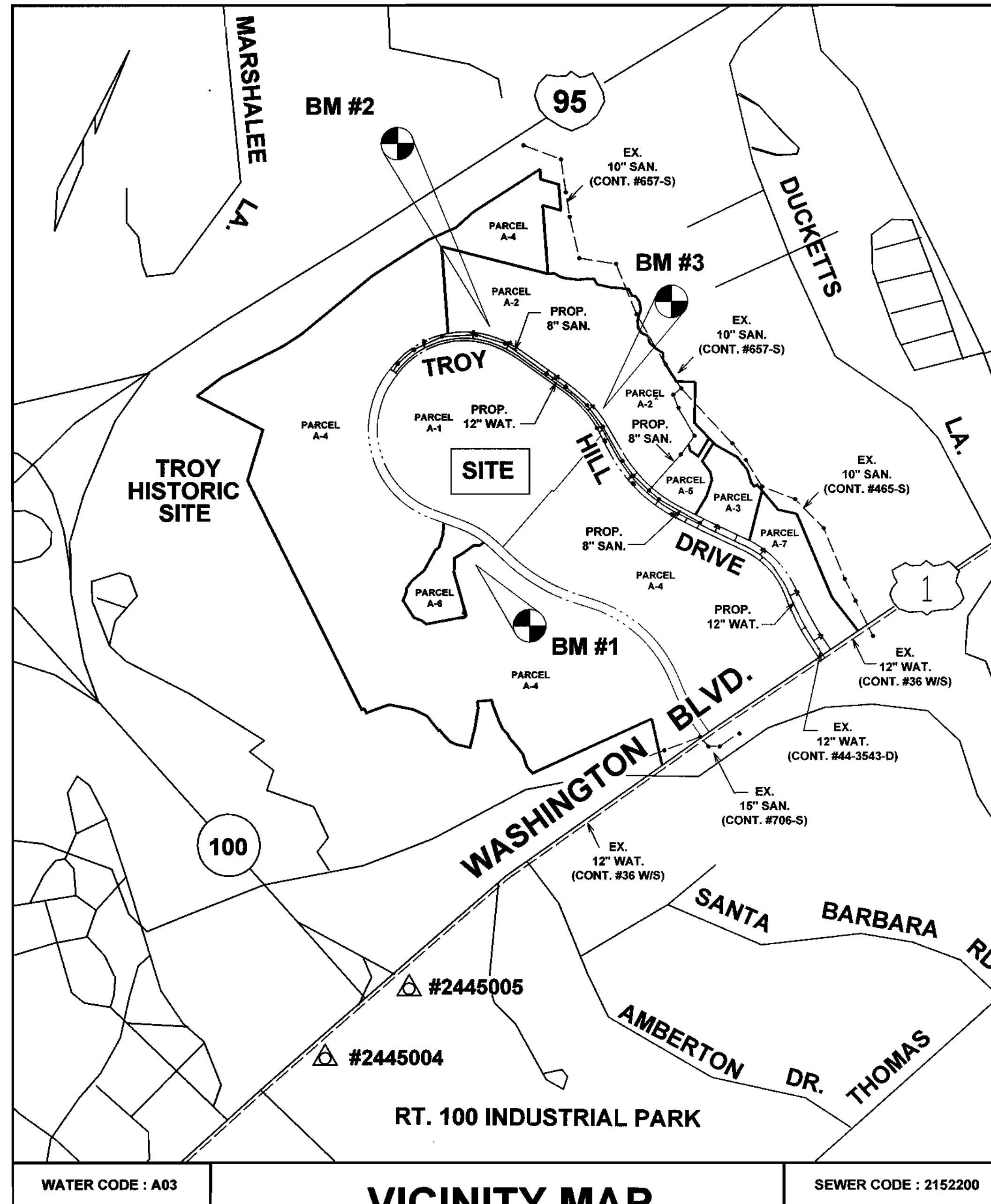
APPROVED : *John R. Robertson* 7/30/96
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

APPROVED : *J. E. Wolford* 7/30/96
U.S. SOIL CONSERVATION SERVICE DATE

OWNER / APPLICANT
TROY HILL BUSINESS PARK PARTNERSHIP
C/O MANEKIN CORP.
4185 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046
(301) 290-1400
ATTN : COLE SCHNORF

NOTE :
THESE REVISED WATER AND SEWER CONSTRUCTION PLANS SUPERSEDE THE WATER AND SEWER CONSTRUCTION PLANS OF TROY HILL (CONTRACT 14-3070-D) APPROVED AND SIGNED BY THE DIRECTOR OF PUBLIC WORKS ON OCTOBER 23, 1992.



BENCHMARK #1	BENCHMARK #2	BENCHMARK #3
IRON PIN @ TRAVERSE #1066 N 496501.3597 E 8669134.4576 ELEV. = 175.92	IRON PIN @ TRAVERSE #1061 N 498036.6945 E 866791.1502 ELEV. = 242.49	IRON PIN @ TRAVERSE #1034 N 497636.7437 E 866935.6586 ELEV. = 214.85

- #### GENERAL NOTES
- PART ONE :
- 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. (NORTH AMERICAN DATUM OF 1983 (NAD '83).
 - ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
 - ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS 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 THE BRACING OF ADDITIONAL POLES, OR DAMAGE SHALL BE DEDUCTED FROM THE MONEY OWED TO THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF POLES.
 - FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOL. IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION) THE CONTRACTOR SHALL HAVE A COPY OF VOL. 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 RESULTS OF THE TEST 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 UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS :
STATE HIGHWAY ADMINISTRATION : 531-5533
BALTIMORE GAS & ELECTRIC COMPANY - CONTRACTOR SERVICES : 860-4620
BALTIMORE GAS & ELECTRIC COMPANY - UNDERGROUND DAMAGE CONTROL : 787-9068
MISS UTILITY : 1-800-257-7777
COLONIAL PIPELINE CO. : 796-1390
BUREAU OF UTILITIES, HOWARD COUNTY DEPT. OF PUBLIC WORKS : 313-4900
 - TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE DAMAGED OR REMOVED BY THE CONTRACTOR.
 - CONTRACTOR SHALL REMOVE TREES, STUMPS, AND ROOTS ALONG THE LINE OF EXCAVATION. PAVEMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
 - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (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 D.P.W. REQUIREMENTS PER SECTION 18.114 (a) OF THE HOWARD COUNTY CODE.

- PART TWO : 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 ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED 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.
 - FOR SPRINKLER SYSTEM FOR ALL TOWNHOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1" CONNECTION WITH A 1/2" METER.

- PART III : SEWER
- ALL SEWER MAINS SHALL BE D.I.P., ~~CLASS 52~~, AND P.V.C. UNLESS OTHERWISE NOTED.
 - 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.

BY	NO.	REVISION	DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Michael A. ... 7/30/96
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

... 7/30/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



GEORGE W. STEPHENS, JR.
AND ASSOCIATES, INC.
Civil Engineers and Land Surveyors
658 Kenilworth Drive, Suite 100
Towson Maryland 21204 (410) 825-8120
203 East Broadway
Bel Air, Maryland 21014 (410) 838-3800



DESIGNED : RLM
DRAWN : BWW
CHECKED : XXX

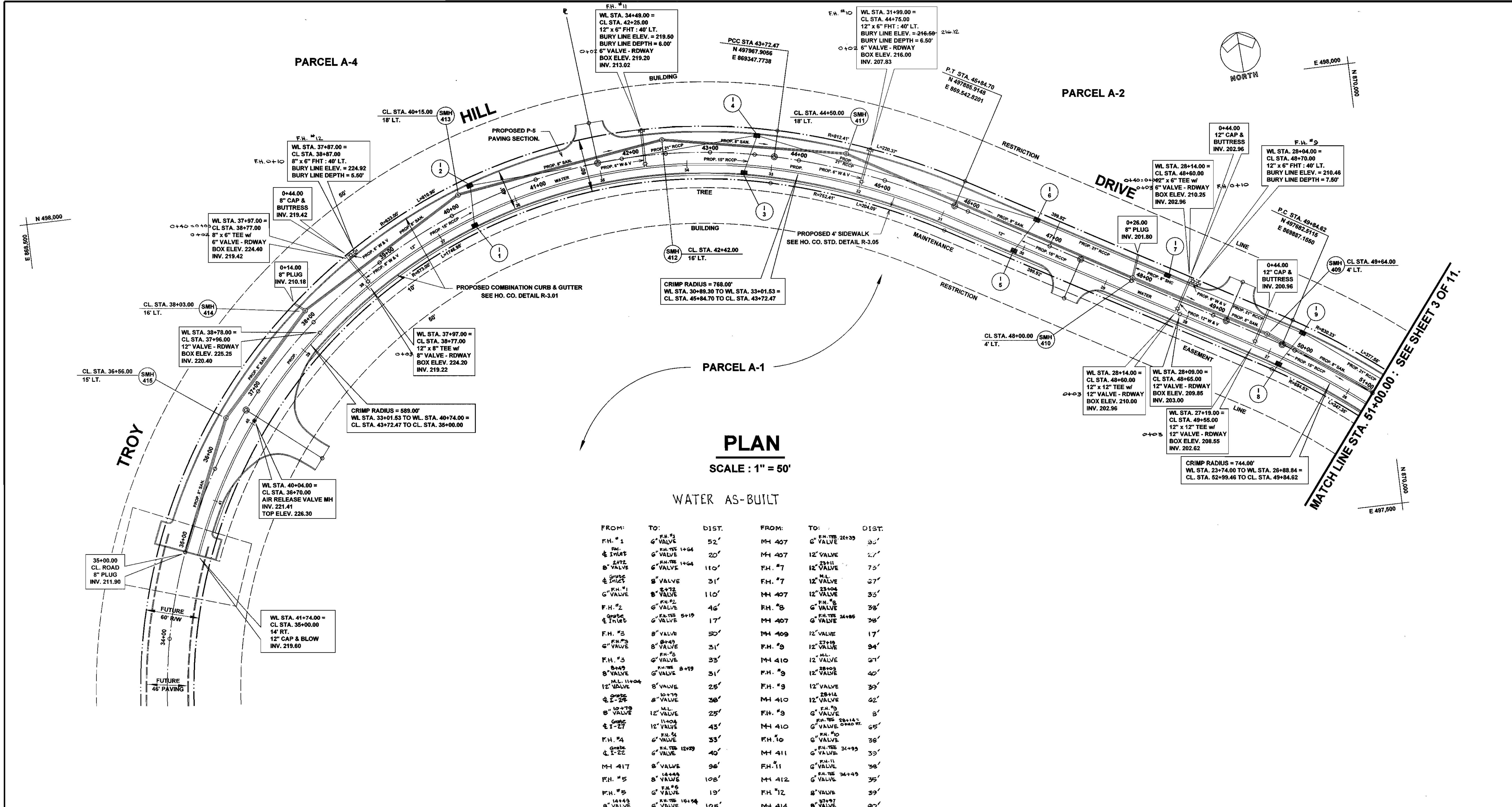
PROPOSED WATER MAIN & SEWER SYSTEM COVER SHEET

CONTRACT NO. 14-3070-D
600 SCALE MAP NO. 37 BLOCK NO. 18

TROY HILL CORPORATE CENTER
PARCEL A-1 THRU A-7
PHASE I - U.S. RTE. #1

HOWARD COUNTY, MARYLAND
ELECTION DISTRICT #1

MAY 31, 1996
SHEET 1 OF 11
P/N 8130 - WSTITLE.DGN



PLAN
SCALE: 1" = 50'

WATER AS-BUILT

FROM:	TO:	DIST.	FROM:	TO:	DIST.
F.H. #1	6" VALVE	52'	MH 407	6" VALVE	30'
6" INLET	6" VALVE	20'	MH 407	12" VALVE	2'
6" VALVE	6" VALVE	110'	F.H. #7	12" VALVE	75'
6" VALVE	6" VALVE	31'	F.H. #7	12" VALVE	27'
6" VALVE	6" VALVE	110'	MH 407	12" VALVE	35'
6" VALVE	6" VALVE	46'	F.H. #8	6" VALVE	38'
6" VALVE	6" VALVE	17'	MH 407	6" VALVE	36'
6" VALVE	6" VALVE	50'	MH 409	12" VALVE	17'
6" VALVE	6" VALVE	31'	F.H. #9	12" VALVE	94'
6" VALVE	6" VALVE	35'	MH 410	12" VALVE	27'
6" VALVE	6" VALVE	31'	F.H. #9	12" VALVE	40'
6" VALVE	6" VALVE	25'	F.H. #9	12" VALVE	39'
6" VALVE	6" VALVE	38'	MH 410	12" VALVE	62'
6" VALVE	6" VALVE	25'	F.H. #9	6" VALVE	8'
6" VALVE	6" VALVE	43'	MH 410	6" VALVE	65'
6" VALVE	6" VALVE	33'	F.H. #10	6" VALVE	36'
6" VALVE	6" VALVE	40'	MH 411	6" VALVE	39'
6" VALVE	6" VALVE	96'	F.H. #11	6" VALVE	38'
6" VALVE	6" VALVE	108'	MH 412	6" VALVE	35'
6" VALVE	6" VALVE	19'	F.H. #12	6" VALVE	39'
6" VALVE	6" VALVE	105'	MH 414	6" VALVE	20'
6" VALVE	6" VALVE	19'	F.H. #12	6" VALVE	8'
6" VALVE	6" VALVE	43'	MH 414	6" VALVE	80'
6" VALVE	6" VALVE	20'	F.H. #12	12" VALVE	98'
6" VALVE	6" VALVE	57'	MH 414	12" VALVE	29'
6" VALVE	6" VALVE	19'			

OWNER / APPLICANT
TROY HILL BUSINESS PARK PARTNERSHIP
C/O MANEKIN CORP.
4165 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046
(301) 290-1400
ATTN: COLE SCHNORF

BY	NO.	REVISION	DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Richard A. ...
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

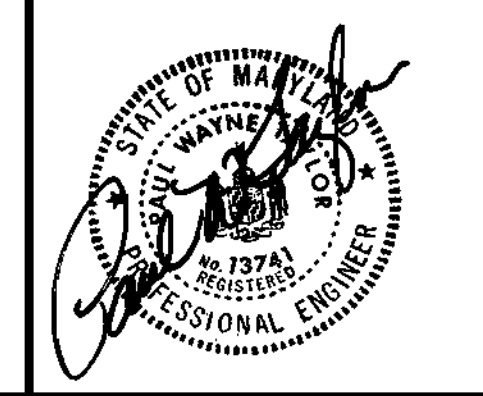
...
CHIEF, DEVELOPMENT
ENGINEERING DIVISION

GWS

**GEORGE W. STEPHENS, JR.
AND ASSOCIATES, INC.**

Civil Engineers and Land Surveyors

658 Kenilworth Drive, Suite 100
Towson Maryland 21204 (410) 825-8120
203 East Broadway
Bel Air, Maryland 21014 (410) 838-3800



DESIGNED: BWW
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CHECKED: XXX

**PROPOSED
WATER AND SEWER PLAN SHEET
STA. 35+00.00 TO STA. 51+00.00**

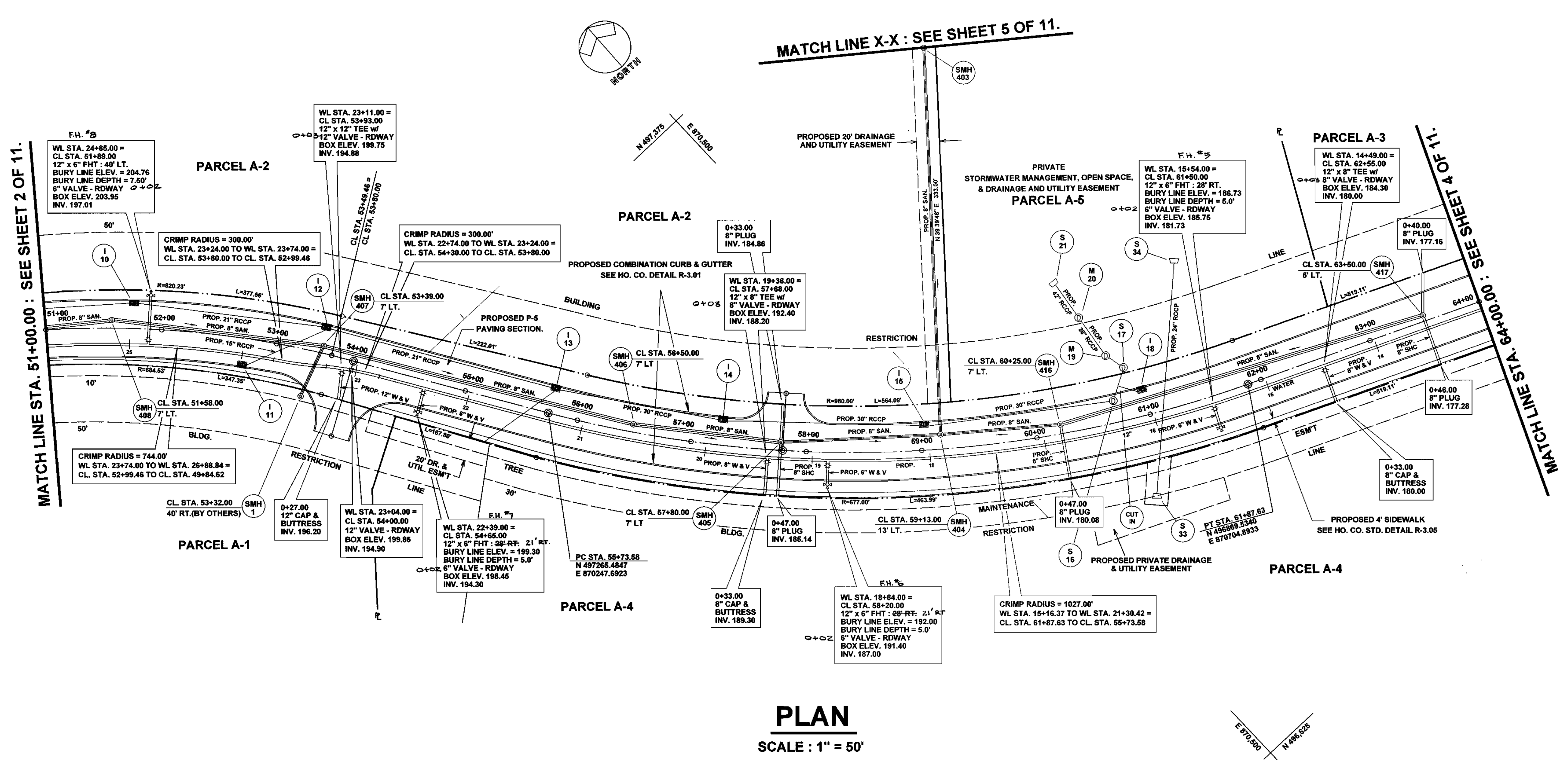
CONTRACT NO. 14-3070-D

SCALE: AS SHOWN

TROY HILL CORPORATE CENTER
PARCEL A-1 THRU A-7
PHASE I - U.S. RTE. #1

HOWARD COUNTY, MARYLAND
ELECTION DISTRICT #1

JULY 8, 1996
SHEET 2 OF 11



PLAN
SCALE : 1" = 50'

OWNER / APPLICANT
TROY HILL BUSINESS PARK PARTNERSHIP
C/O MANEKIN CORP.
4165 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046
(301) 290-1400
ATTN : COLE SCHNORF

BY	NO.	REVISION	DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

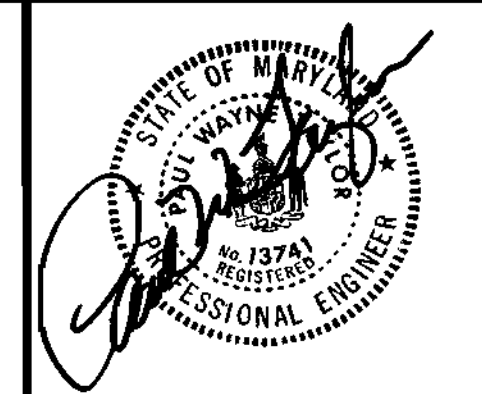
Michael J. Berman
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

William J. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GWS

GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
Civil Engineers and Land Surveyors
658 Kenilworth Drive, Suite 100
Towson Maryland 21204 (410) 825-8120
203 East Broadway
Bel Air, Maryland 21014 (410) 838-3800



DESIGNED : BWW
DRAWN : BWW
CHECKED : XXX

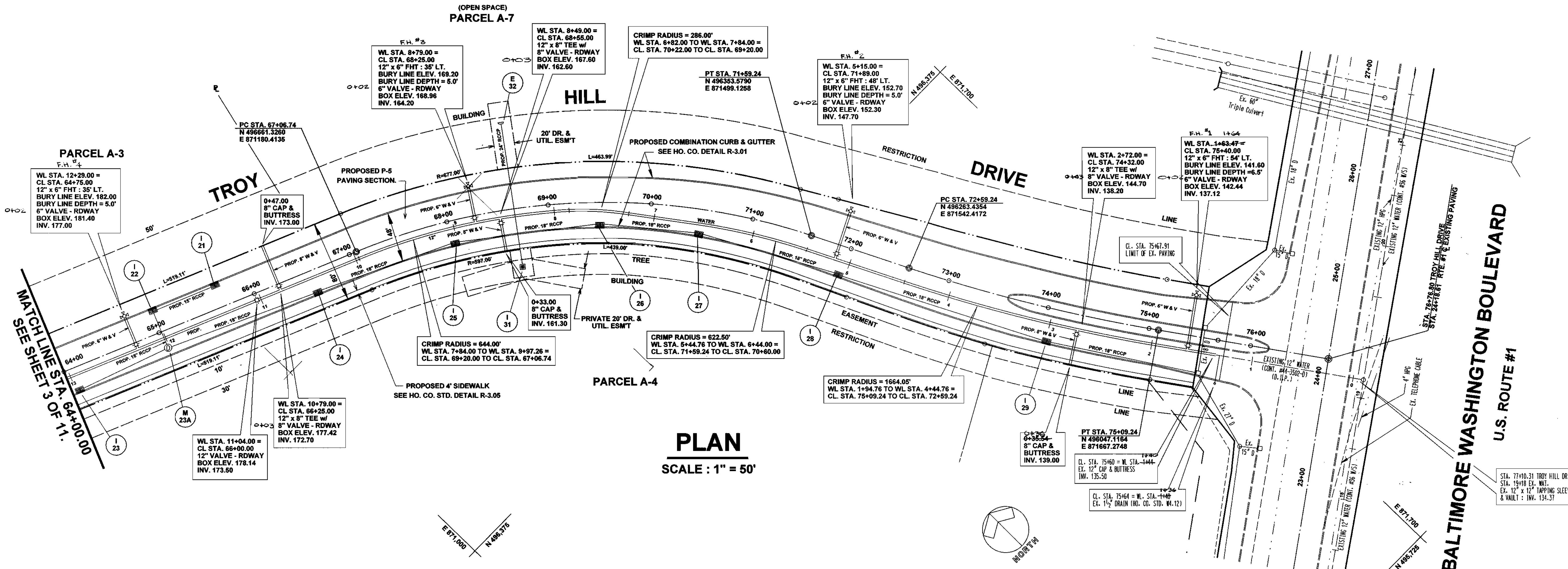
PROPOSED WATER AND SEWER PLAN SHEET
STA. 51+00.00 TO STA. 64+00.00

CONTRACT NO. 14-3070-D
SCALE : AS SHOWN

TROY HILL CORPORATE CENTER
PARCEL A-1 THRU A-7
PHASE I - U.S. RTE. #1

HOWARD COUNTY, MARYLAND
ELECTION DISTRICT #1

JULY 8, 1996
SHEET 3 OF 11



PLAN
SCALE : 1" = 50'

OWNER / APPLICANT

TROY HILL BUSINESS PARK PARTNERSHIP
C/O MANEKIN CORP.
4165 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046
(301) 290-1400
ATTN : COLE SCHNORF

BY	NO.	REVISION	DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Michael J. ...
CHIEF, BUREAU OF UTILITIES DATE

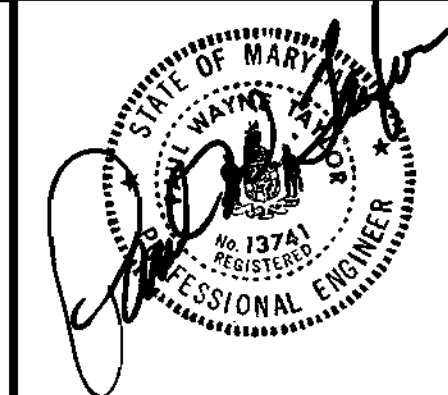
DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

William ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GWS

**GEORGE W. STEPHENS, JR.
AND ASSOCIATES, INC.**
Civil Engineers and Land Surveyors

658 Kenilworth Drive, Suite 100
Towson Maryland 21204 (410) 825-8120
203 East Broadway
Bel Air, Maryland 21014 (410) 838-3800



DESIGNED : BWW
DRAWN : BWW
CHECKED : XXX

**PROPOSED
WATER AND SEWER PLAN SHEET
STA. 64+00.00 TO STA. 77+10.31**

CONTRACT NO. 14-3070-D

SCALE : AS SHOWN

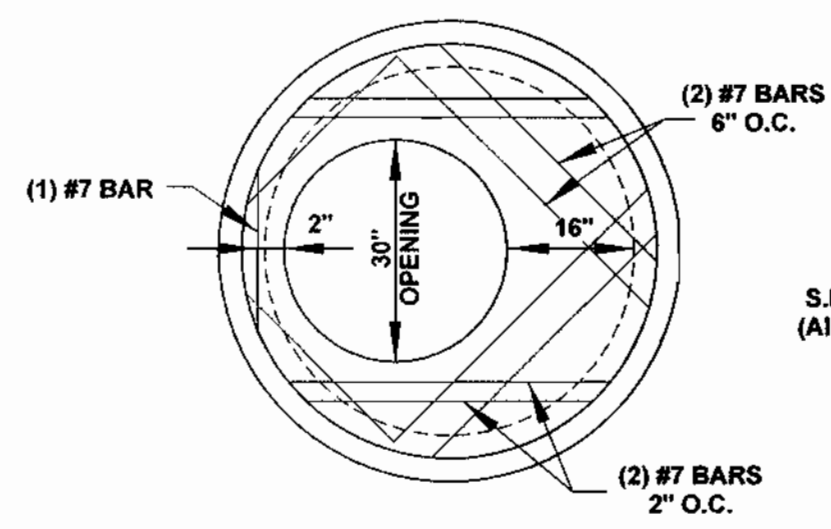
**TROY HILL CORPORATE CENTER
PARCEL A-1 THRU A-7
PHASE I - U.S. RTE. #1**

HOWARD COUNTY, MARYLAND
ELECTION DISTRICT #1

JULY 8, 1996
SHEET 4 OF 11

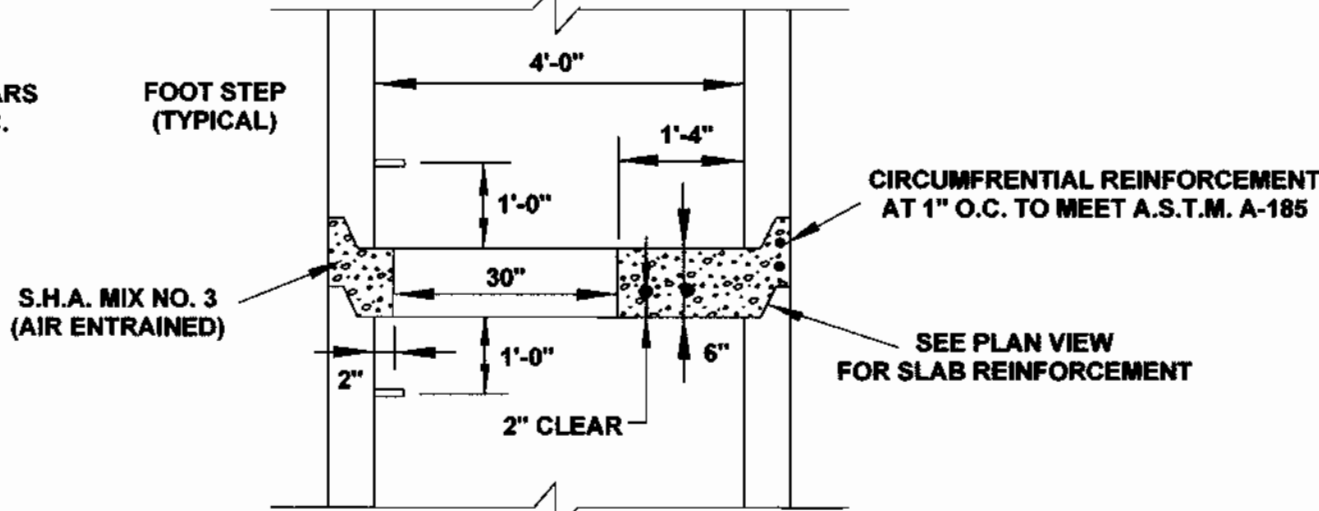
P/N 8130 - WSPLANS.DGN

NOTE:
INTERMEDIATE LANDING TO BE USED
WHEN MANHOLE DEPTH EXCEEDS 18',
WHEN DEPTH EXCEEDS 25' SPACE
AT MAX. 10'-0" INTERVALS.



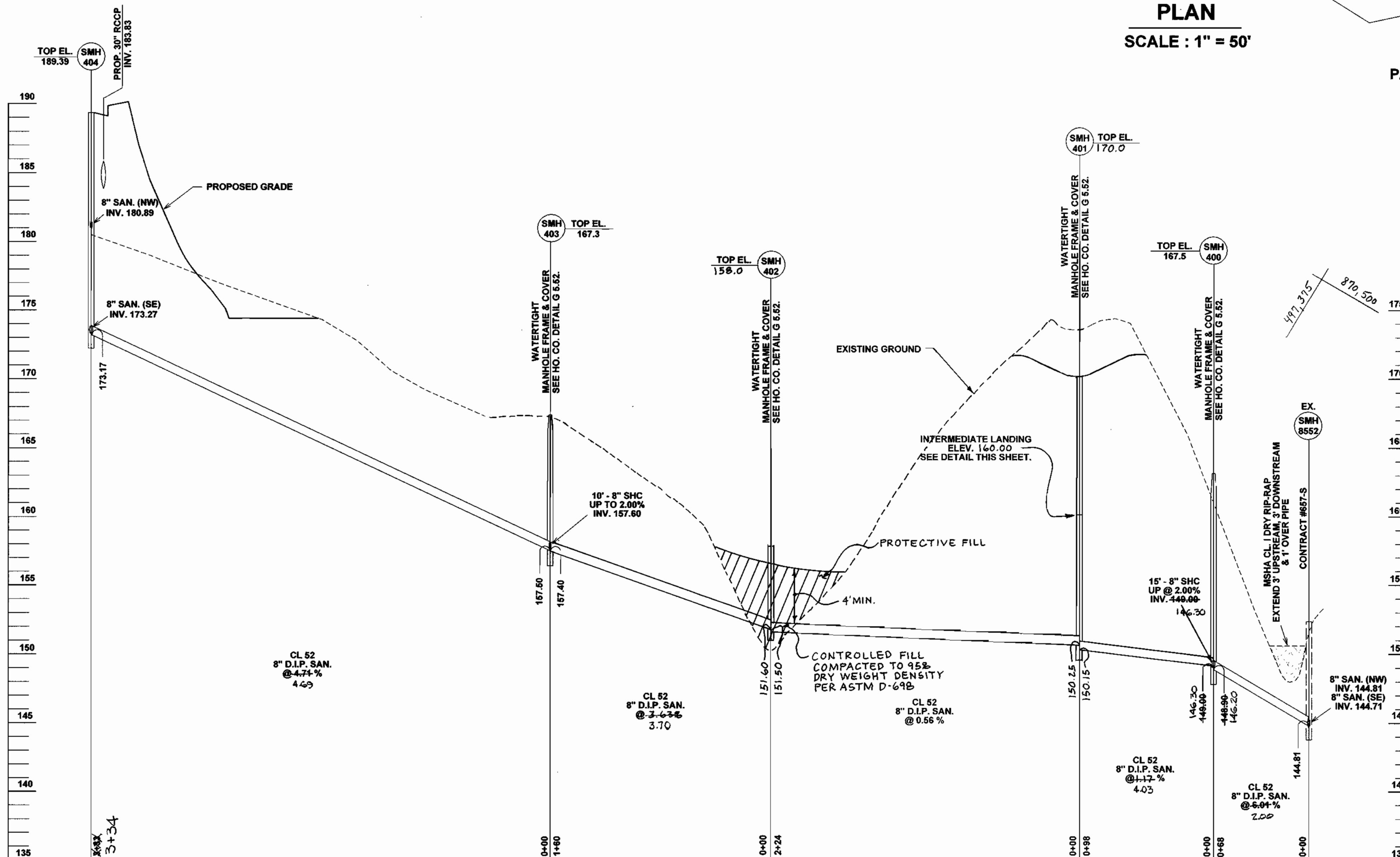
PLAN VIEW

FOR GENERAL NOTES AND DETAILS ON
STANDARD PRECAST MANHOLES
SEE DETAILS G-5.11 AND G-5.12.

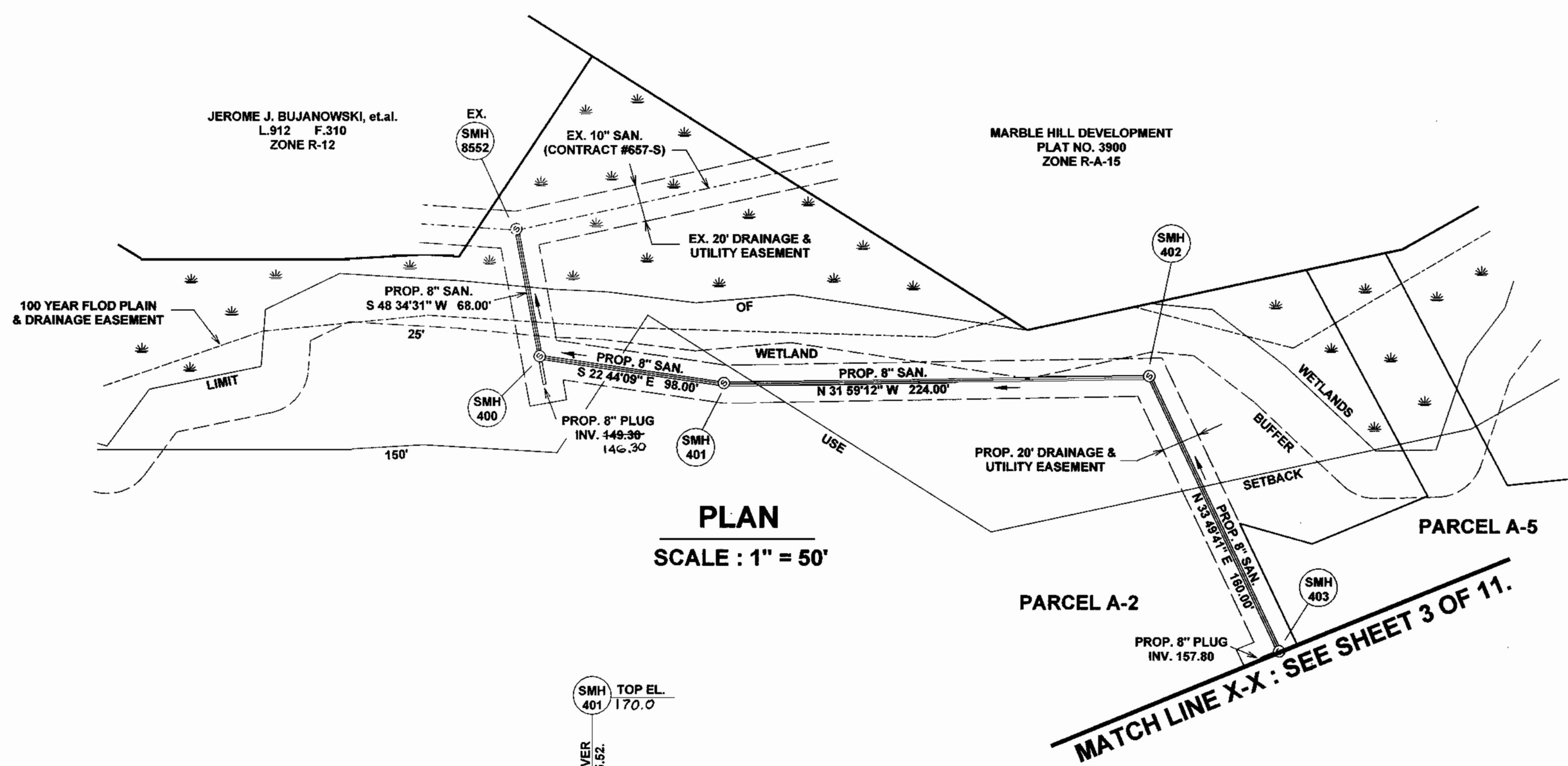


SECTION VIEW

INTERMEDIATE LANDING
DETAIL
NO SCALE



PROFILE
SCALE : HORZ. 1" = 50'
VERT. 1" = 5'



PLAN
SCALE : 1" = 50'

MATCH LINE X-X : SEE SHEET 3 OF 11.

OWNER / APPLICANT
TROY HILL BUSINESS PARK PARTNERSHIP
C/O MANEKIN CORP.
4165 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046
(301) 290-1400
ATTN : COLE SCHNORF

BY	NO.	REVISION	DATE
G.W.S.	△	REVISED PROFILE FROM SMH 400 TO SMH 402	11/4/96

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Michael A. Savinelli 7/26/96
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
Michael A. Savinelli 7/26/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

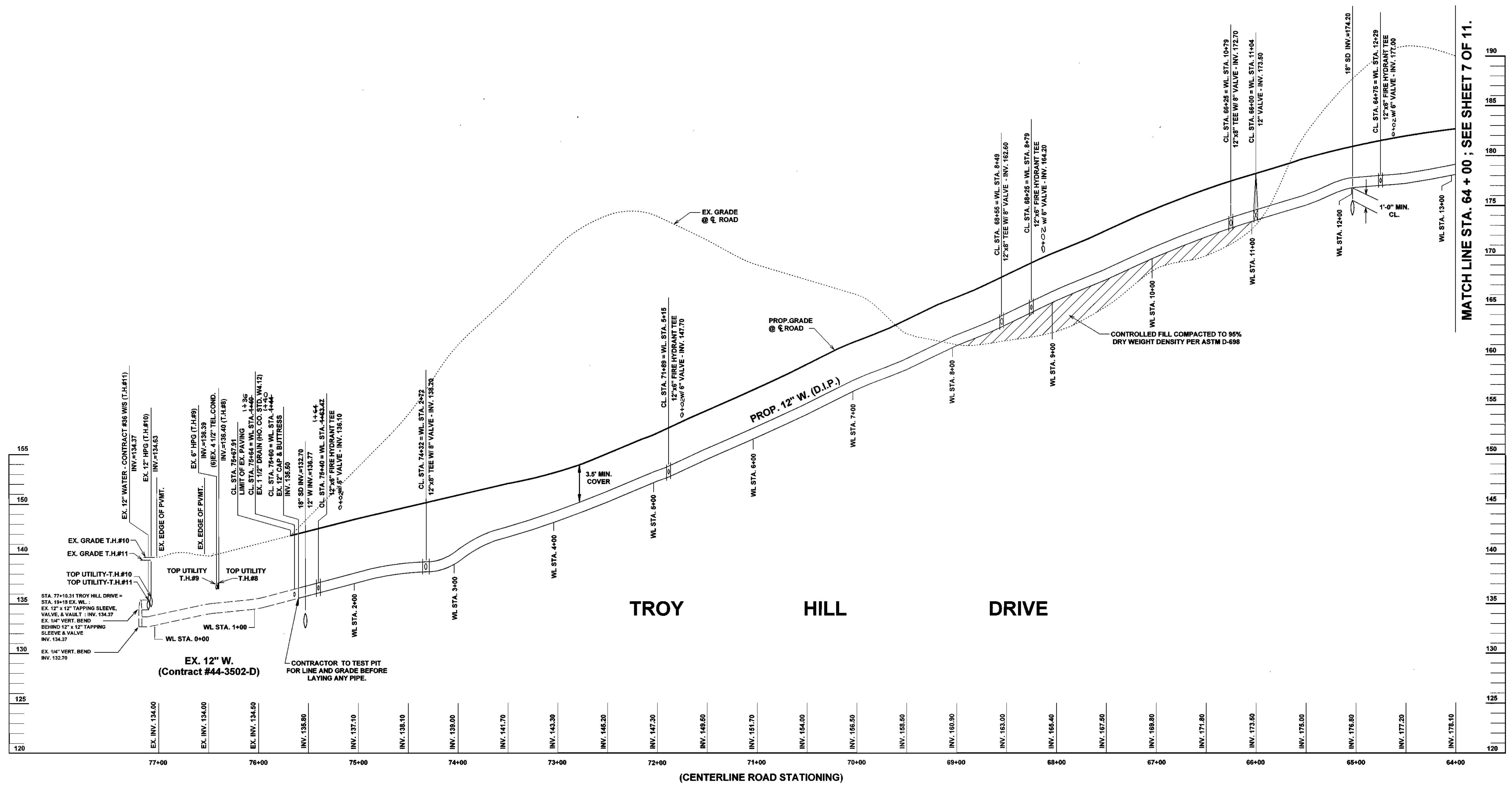
**GEORGE W. STEPHENS, JR.
AND ASSOCIATES, INC.**
Civil Engineers and Land Surveyors
658 Kenilworth Drive, Suite 100
Towson Maryland 21204 (410) 825-8120
203 East Broadway
Bel Air, Maryland 21014 (410) 838-3800



DESIGNED : BWW
DRAWN : BWW
CHECKED : XXX

**PROPOSED
PUBLIC SEWER SYSTEM
PLAN AND PROFILE**
CONTRACT NO. 14-3070-D
SCALE : AS SHOWN

TROY HILL CORPORATE CENTER
PARCEL A-1 THRU A-7
PHASE I - U.S. RTE. #1
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT #1
JULY 8, 1996
SHEET 5 OF 11
PIN 8130 - WS7.DGN



PROFILE
 SCALE : HOR.: 1" = 50'
 VERT.: 1" = 5'

OWNER / APPLICANT
 TROY HILL BUSINESS PARK PARTNERSHIP
 C/O MANEKIN CORP.
 4165 COLUMBIA GATEWAY DRIVE
 COLUMBIA, MARYLAND 21046
 (301) 290-1400
 ATTN : COLE SCHNORF

BY	NO.	REVISION	DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Michael A. Kormanillo, P.E. 7/21/96
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
 [Signature] 7/21/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
 Civil Engineers and Land Surveyors
 658 Kenilworth Drive, Suite 100
 Towson Maryland 21204 (410) 825-8120
 203 East Broadway
 Bel Air, Maryland 21014 (410) 838-3800

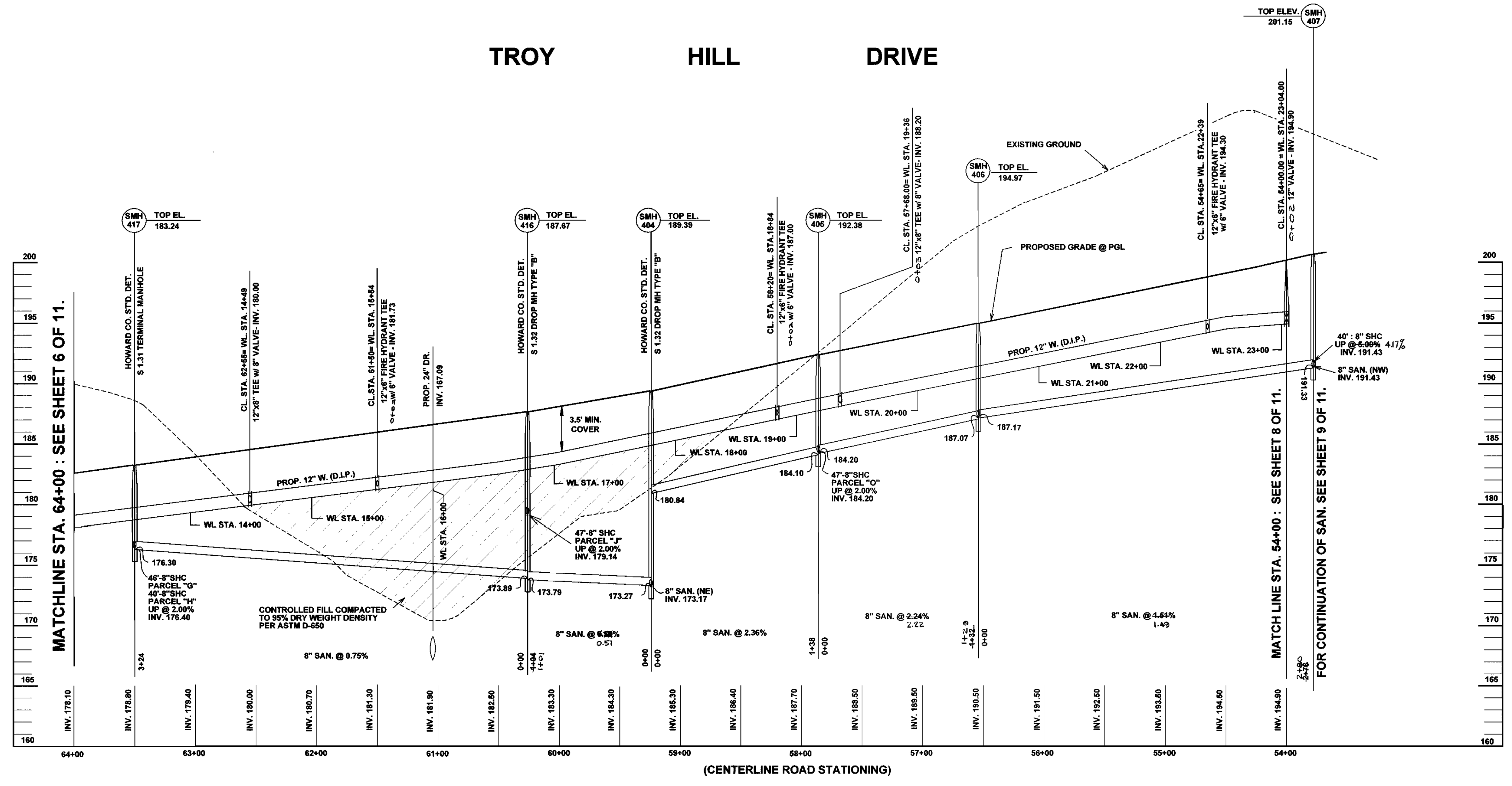


DESIGNED : BWW
 DRAWN : BWW
 CHECKED : XXX

PROPOSED PUBLIC WATER MAIN PROFILE
 CONTRACT NO. 14-3070-D
 600 SCALE MAP NO. 37 BLOCK NO. 18

TROY HILL CORPORATE CENTER
 PARCEL A-1 THRU A-7
 PHASE I - U.S. RTE. #1
 HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT #1
 JULY 8, 1996
 SHEET 6 OF 11
 P/N 8130 - WS2.DGN

TROY HILL DRIVE



PROFILE
SCALE : HORZ. 1" = 50'
VERT. 1" = 5'

OWNER / APPLICANT
TROY HILL BUSINESS PARK PARTNERSHIP
C/O MANEKIN CORP.
4165 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046
(301) 290-1400
ATTN: COLE SCHNORF

BY	NO.	REVISION	DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Richard A. ... 7/26/96
CHIEF, BUREAU OF UTILITIES DATE

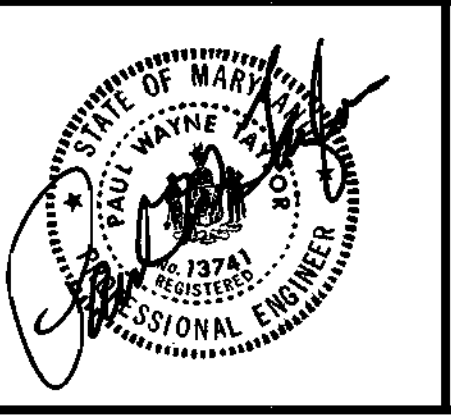
DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

... 7/31/96
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

**GEORGE W. STEPHENS, JR.
AND ASSOCIATES, INC.**

Civil Engineers and Land Surveyors

658 Kenilworth Drive, Suite 100
Towson Maryland 21204 (410) 825-8120
203 East Broadway
Bel Air, Maryland 21014 (410) 838-3800



DESIGNED : BWW
DRAWN : BWW
CHECKED : XXX

**PROPOSED
PUBLIC WATER MAIN & SEWER SYSTEM
PROFILE**

CONTRACT NO. 14-3070-D

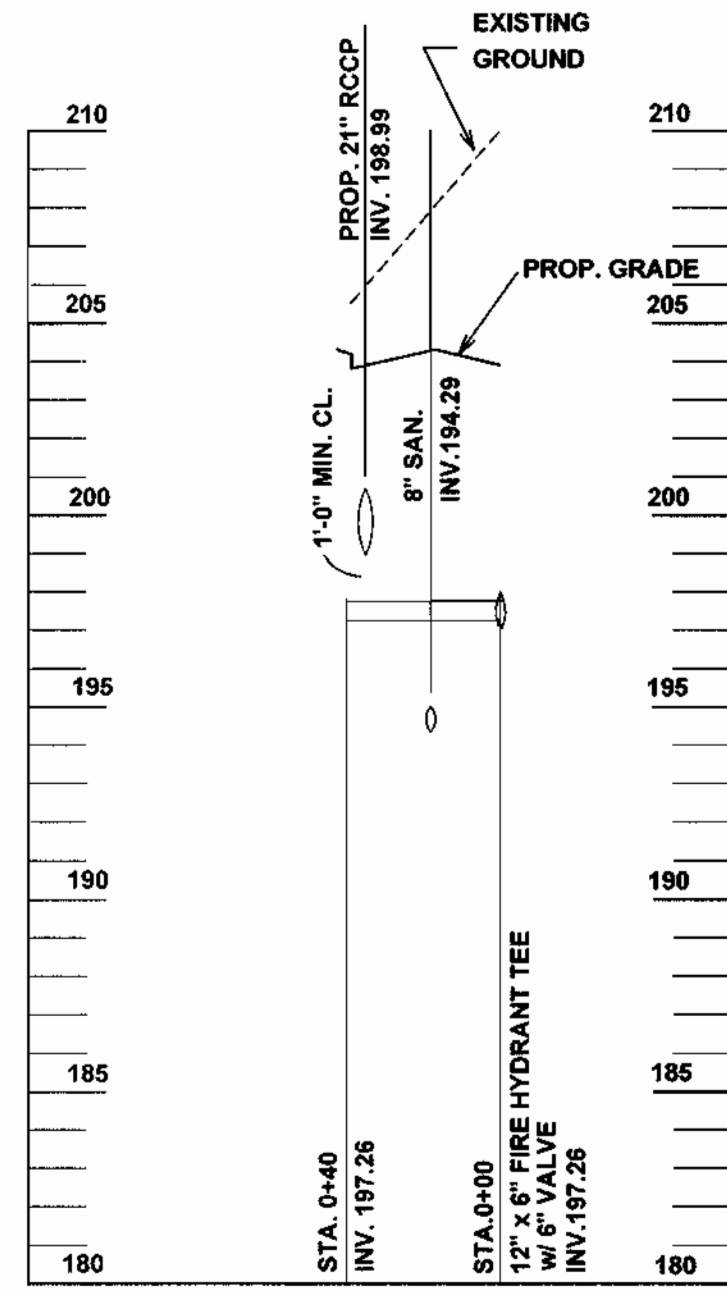
SCALE : AS SHOWN

TROY HILL CORPORATE CENTER
PARCEL A-1 THRU A-7
PHASE I - U.S. RTE. #1

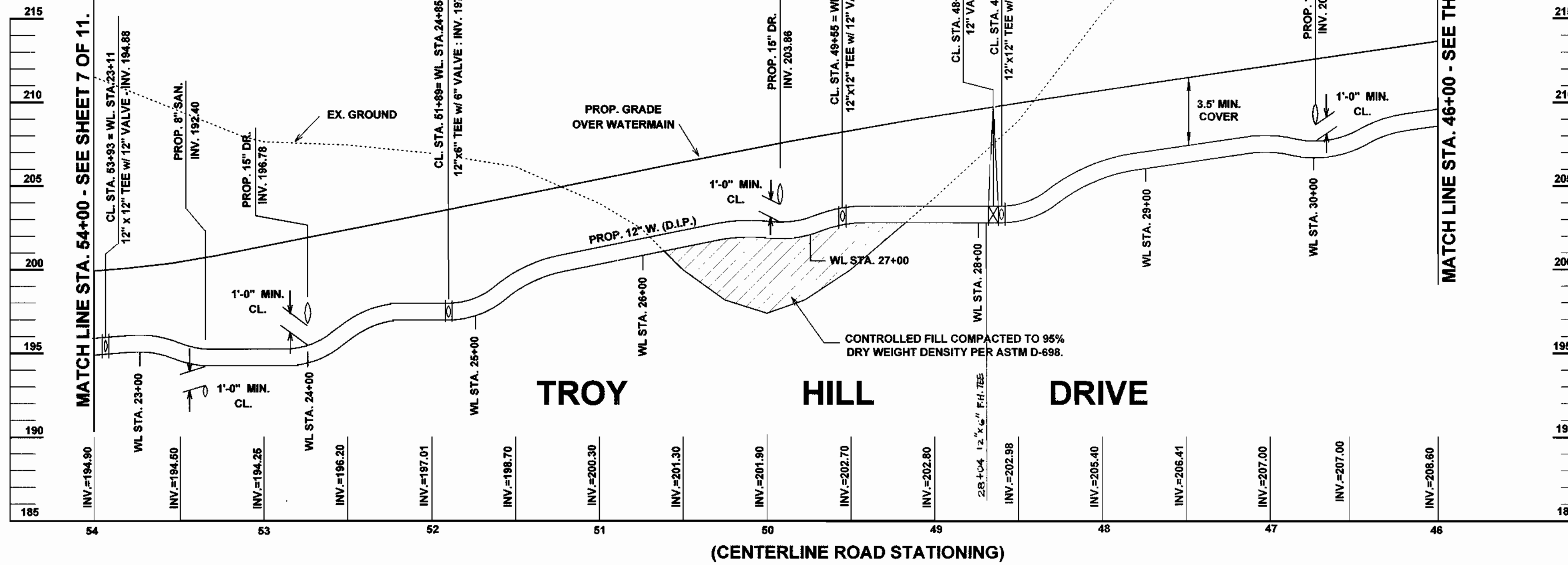
HOWARD COUNTY, MARYLAND
ELECTION DISTRICT #1

JULY 8, 1996
SHEET 7 OF 11

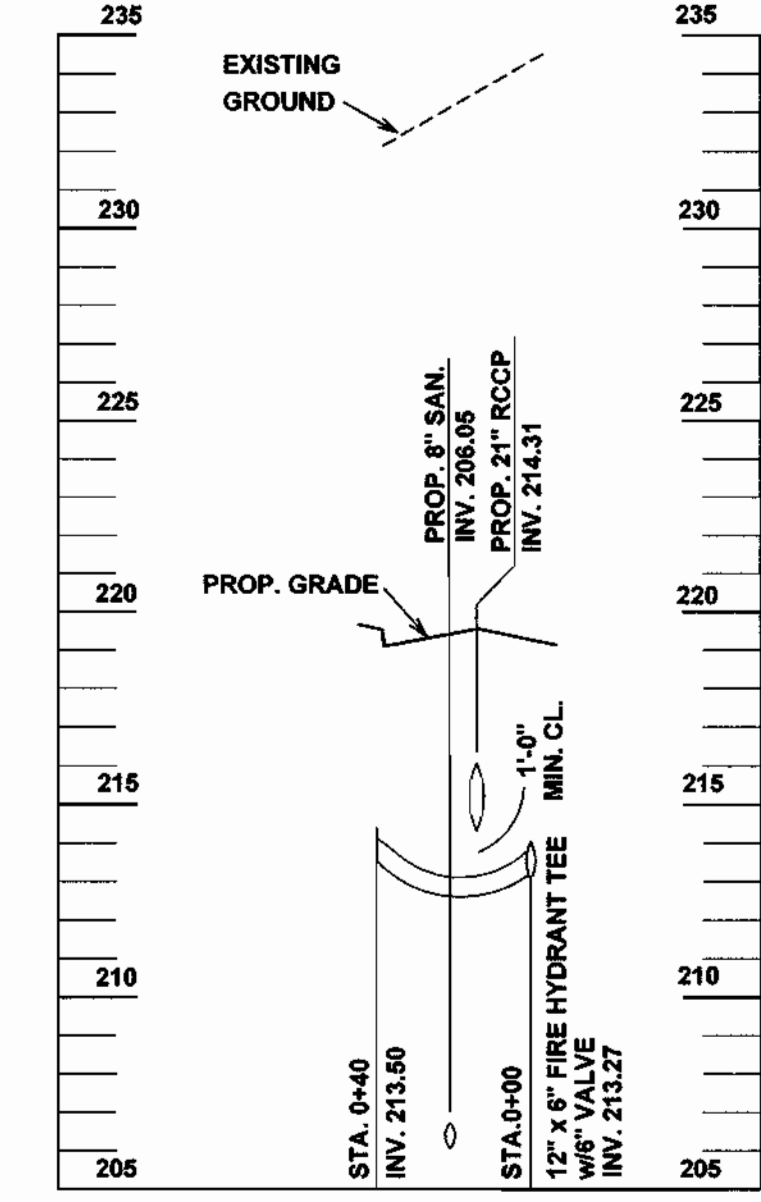
P/N 8130 - WS4.DGN



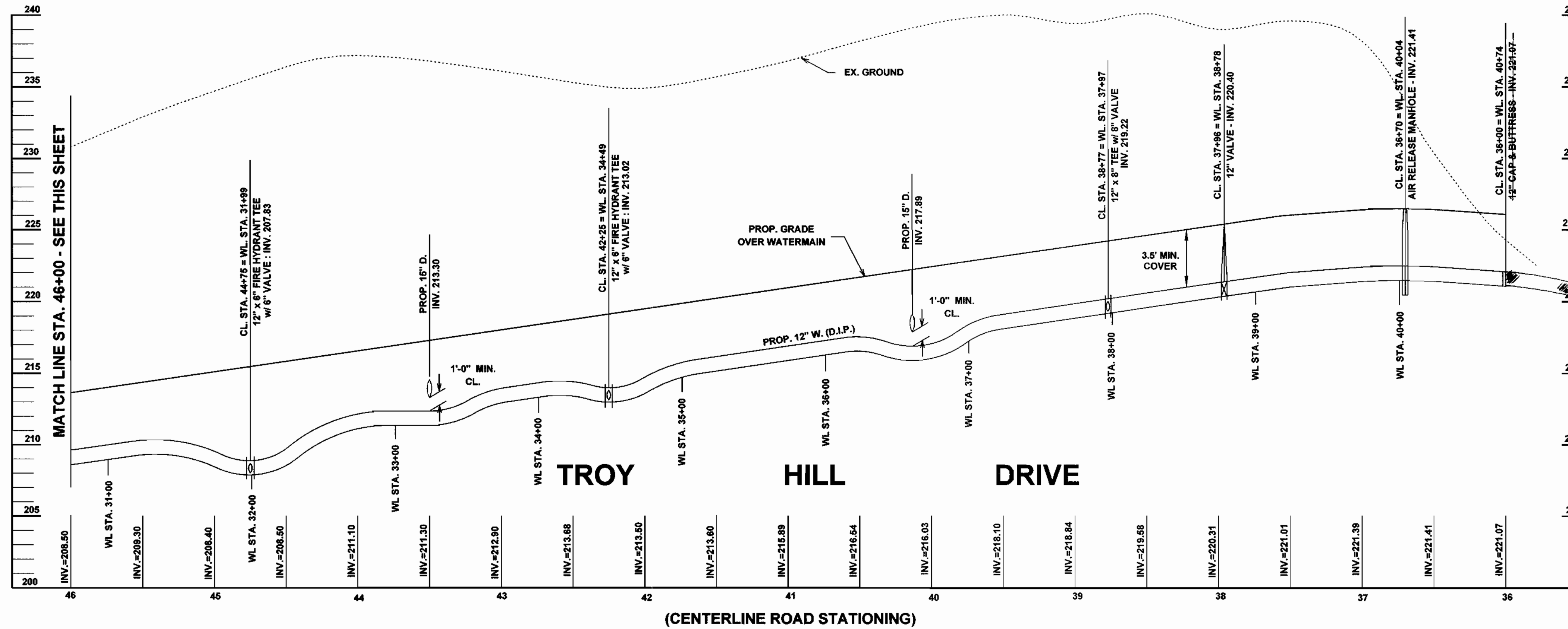
FIRE HYDRANT PROFILE
WL STA. 24+85 =
CL STA. 51+89



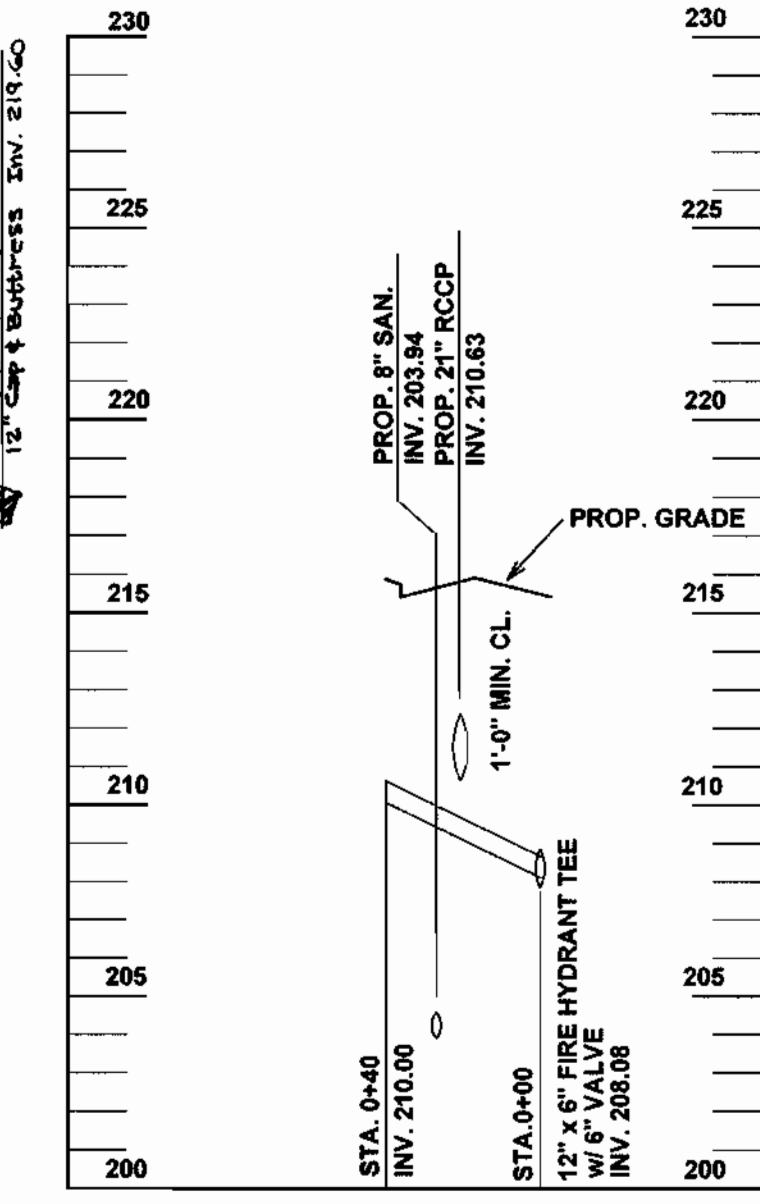
(CENTERLINE ROAD STATIONING)



FIRE HYDRANT PROFILE
WL STA. 34+49 =
CL STA. 42+25



(CENTERLINE ROAD STATIONING)



FIRE HYDRANT PROFILE
WL STA. 31+99 =
CL STA. 44+75

PROFILES
SCALE: HORZ. 1" = 50'
VERT. 1" = 5'

OWNER / APPLICANT

TROY HILL BUSINESS PARK PARTNERSHIP
C/O MANEKIN CORP.
4165 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046
(301) 290-1400
ATTN: COLE SCHNORF

BY	NO.	REVISION	DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND



**GEORGE W. STEPHENS, JR.
AND ASSOCIATES, INC.**

Civil Engineers and Land Surveyors

658 Kenilworth Drive, Suite 100
Towson Maryland 21204 (410) 825-8120
203 East Broadway
Bel Air, Maryland 21014 (410) 838-3800



DESIGNED: BWW

DRAWN: BWW

CHECKED: XXX

**PROPOSED
PUBLIC WATER MAIN
PROFILES**

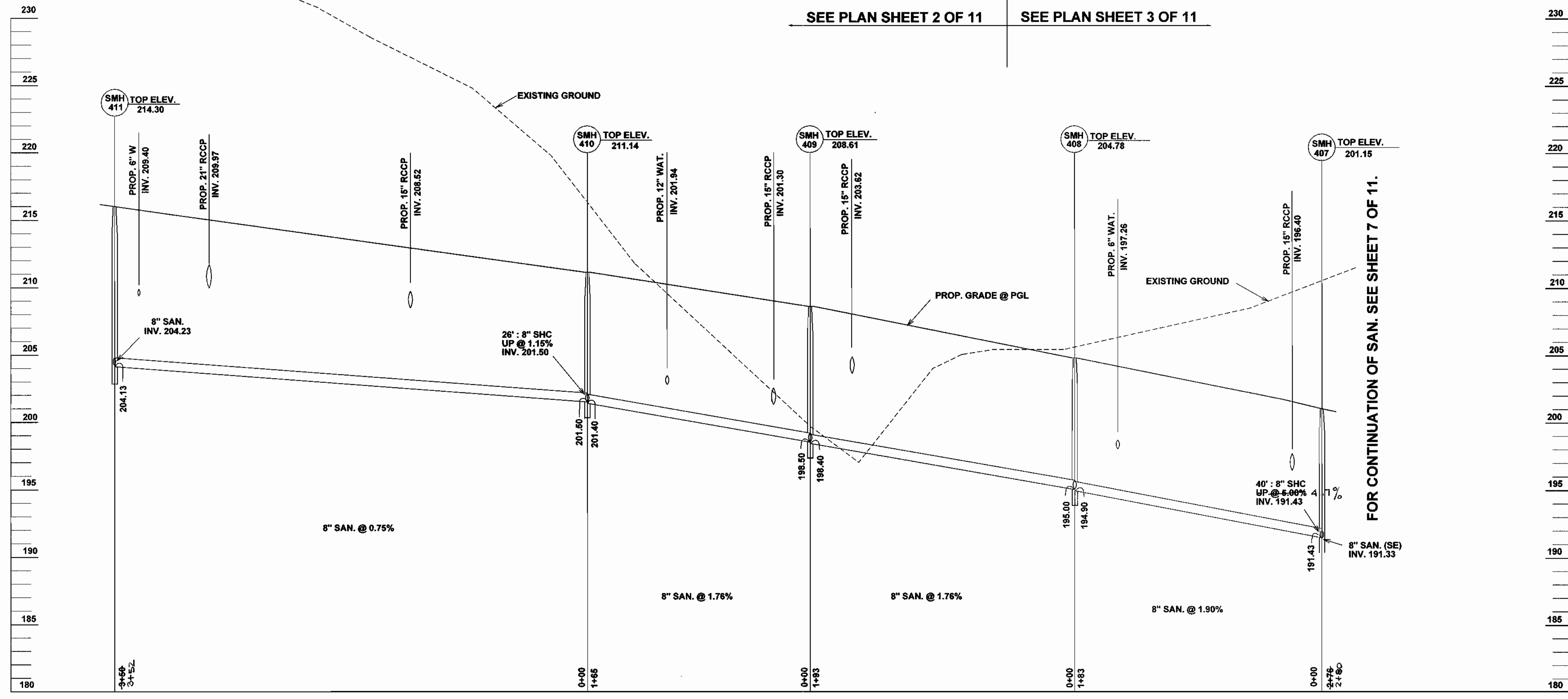
CONTRACT NO. 14-3070-D

SCALE: AS SHOWN

TROY HILL CORPORATE CENTER
PARCEL A-1 THRU A-7
PHASE I - U.S. RTE. #1

HOWARD COUNTY, MARYLAND
ELECTION DISTRICT #1

JULY 8, 1996
SHEET 8 OF 11



SEE PLAN SHEET 2 OF 11 SEE PLAN SHEET 3 OF 11

PROFILE
 SCALE : HORZ. 1" = 50'
 VERT. 1' = 5'

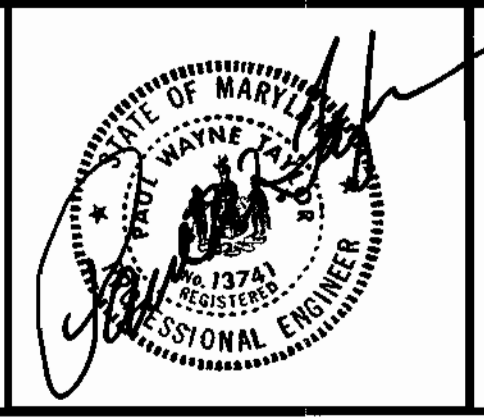
OWNER / APPLICANT
 TROY HILL BUSINESS PARK PARTNERSHIP
 C/O MANEKIN CORP.
 4165 COLUMBIA GATEWAY DRIVE
 COLUMBIA, MARYLAND 21046
 (301) 290-1400
 ATTN: COLE SCHNORF

BY	NO.	REVISION	DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Michael B. ...
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
 ...
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
 Civil Engineers and Land Surveyors
 658 Kenilworth Drive, Suite 100
 Towson Maryland 21204 (410) 825-8120
 203 East Broadway
 Bel Air, Maryland 21014 (410) 838-3800

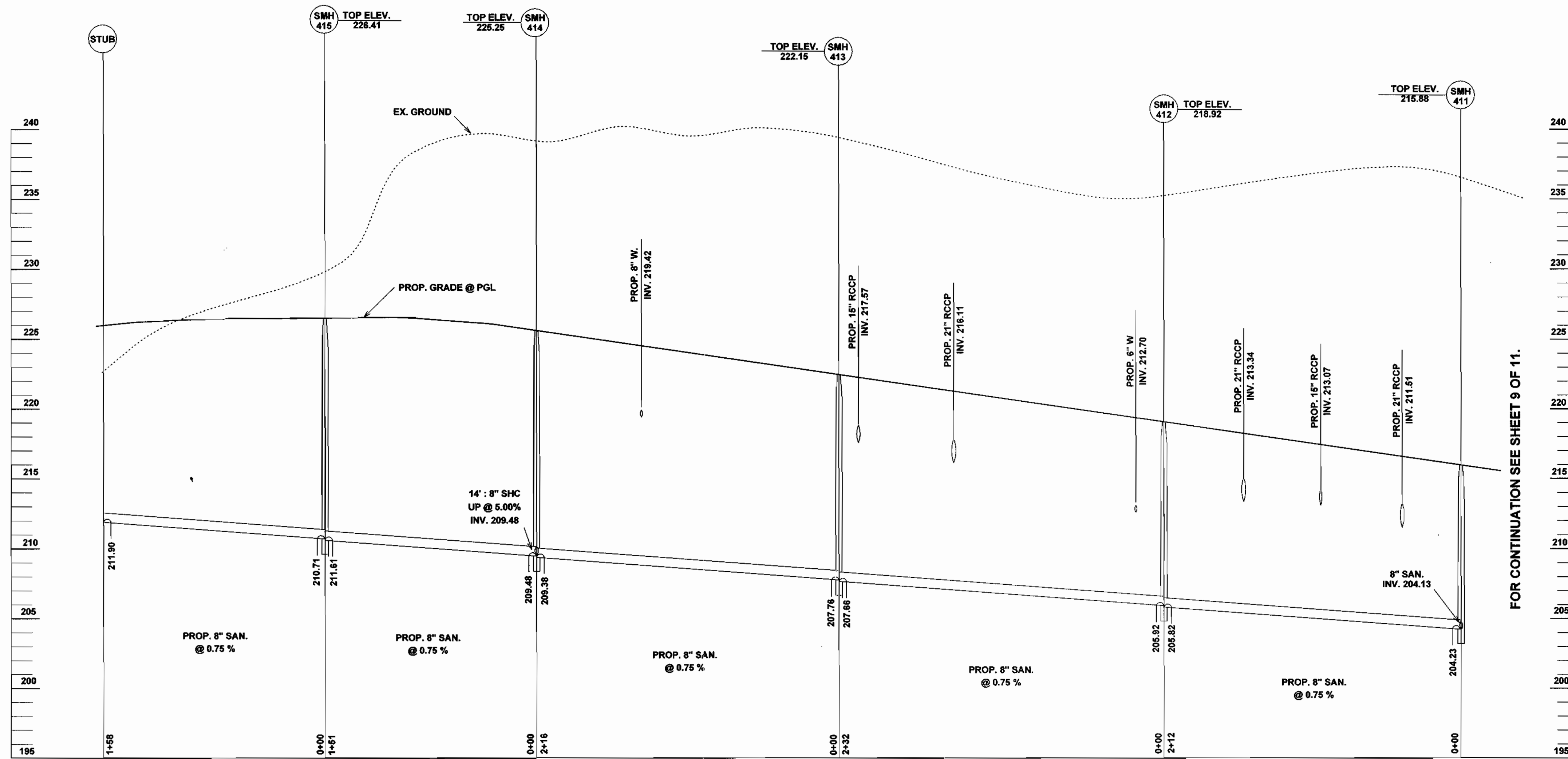


DESIGNED : BWW
 DRAWN : BWW
 CHECKED : XXX

PROPOSED PUBLIC SEWER SYSTEM PROFILE
 CONTRACT NO. 14-3070-D
 SCALE : AS SHOWN

TROY HILL CORPORATE CENTER
 PARCEL A-1 THRU A-7
 PHASE I - U.S. RTE. #1
 HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT #1
 JULY 8, 1996
 SHEET 9 OF 11
 P/N 8130 - WS5.DGN

SEE PLAN SHEET 2 OF 11



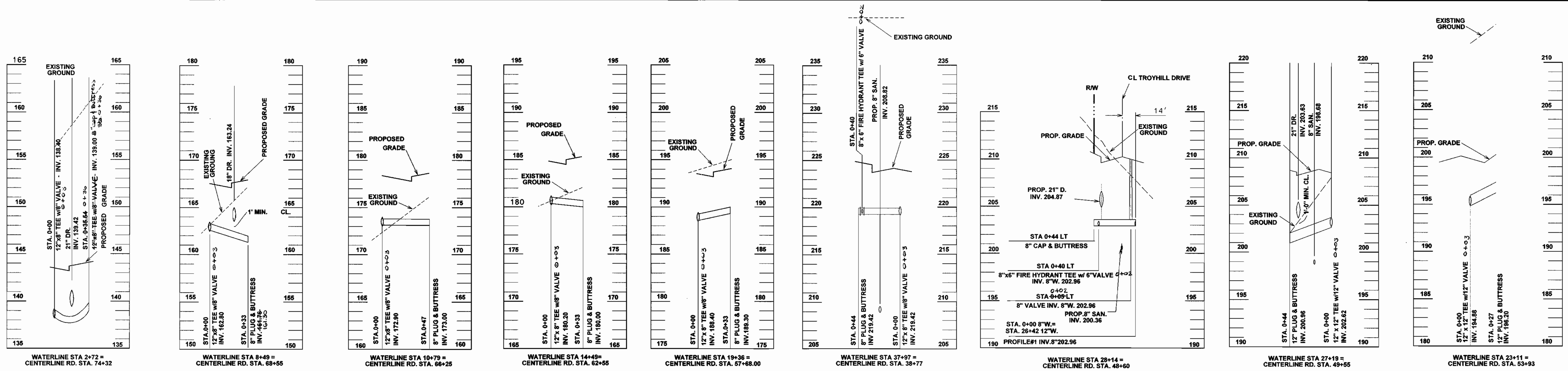
FOR CONTINUATION SEE SHEET 9 OF 11.

PROFILE
 SCALE : HORZ. 1" = 50'
 VERT. 1' = 5'

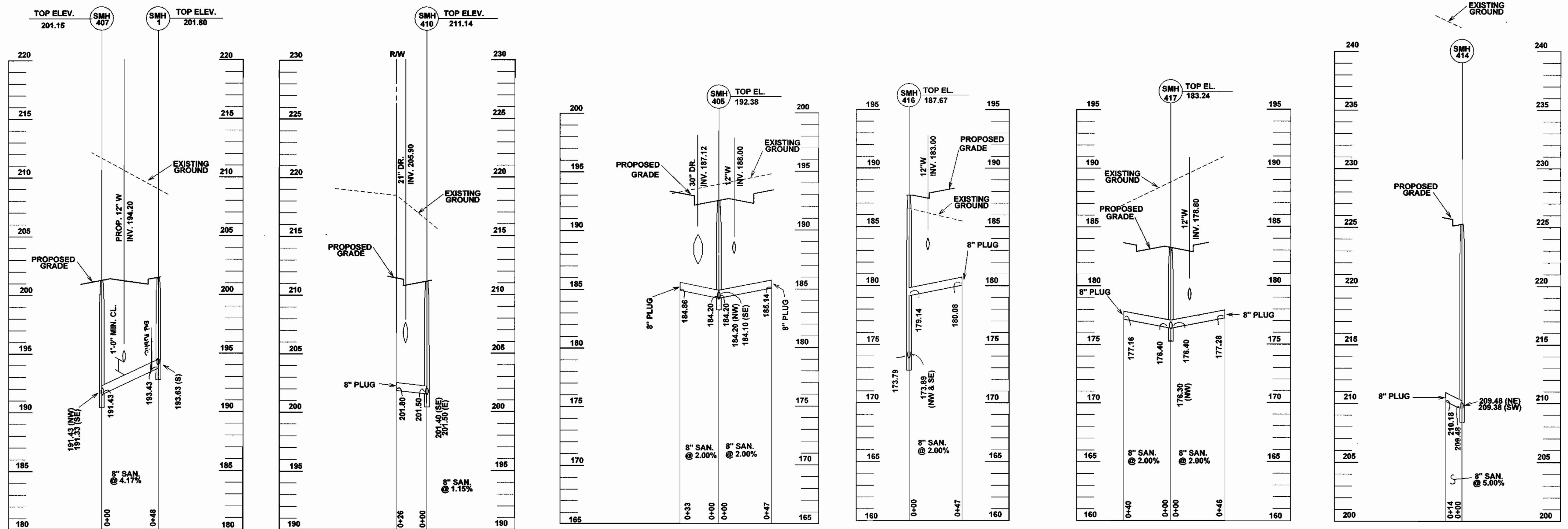
OWNER / APPLICANT
 TROY HILL BUSINESS PARK PARTNERSHIP
 C/O MANEKIN CORP.
 4165 COLUMBIA GATEWAY DRIVE
 COLUMBIA, MARYLAND 21046
 (301) 280-1400
 ATTN : COLE SCHNORF

BY	NO.	REVISION	DATE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND [Signature] CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND [Signature] CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	 <p>GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC. Civil Engineers and Land Surveyors 658 Kenilworth Drive, Suite 100 Towson Maryland 21204 (410) 825-8120 203 East Broadway Bel Air, Maryland 21014 (410) 838-3800</p>		DESIGNED : BWW DRAWN : BWW CHECKED : XXX	<p align="center">PROPOSED PUBLIC SEWER SYSTEM PROFILE</p> CONTRACT NO. 14-3070-D SCALE : AS SHOWN	<p align="center">TROY HILL CORPORATE CENTER PARCEL A-1 THRU A-7 PHASE I - U.S. RTE. #1</p> HOWARD COUNTY, MARYLAND ELECTION DISTRICT #1 JULY 8, 1996 SHEET 10 OF 11 P/N 8130 - WSS.DGN
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WATERLINE STUBS ON TROY HILL DRIVE



OWNER / APPLICANT
 TROY HILL BUSINESS PARK PARTNERSHIP
 C/O MANEKIN CORP.
 4165 COLUMBIA GATEWAY DRIVE
 COLUMBIA, MARYLAND 21046
 (301) 290-1400
 ATTN: COLE SCHNORF

SEWER STUBS ON TROY HILL DRIVE

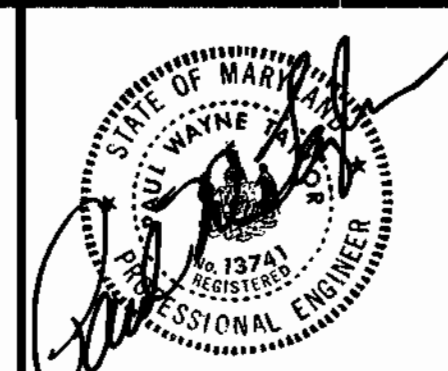
BY	NO.	REVISION	DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Michael A. ... 7/24/96
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
 ... 7/31/96
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE



**GEORGE W. STEPHENS, JR.
 AND ASSOCIATES, INC.**
 Civil Engineers and Land Surveyors
 658 Kenilworth Drive, Suite 100
 Towson Maryland 21204 (410) 825-8120
 203 East Broadway
 Bel Air, Maryland 21014 (410) 838-3800



DESIGNED : BWW
 DRAWN : BWW
 CHECKED : XXX

**PROPOSED
 PUBLIC WATER AND SEWER
 STUB PROFILES**
 CONTRACT NO. 14-3070-D
 600 SCALE MAP NO. 37 BLOCK NO. 18

TROY HILL CORPORATE CENTER
 PARCEL A-1 THRU A-7
 PHASE I - U.S. RTE. #1
 HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT #1
 JULY 8, 1996
 SHEET 11 OF 11
 P/N 8130 - WS3.DGN