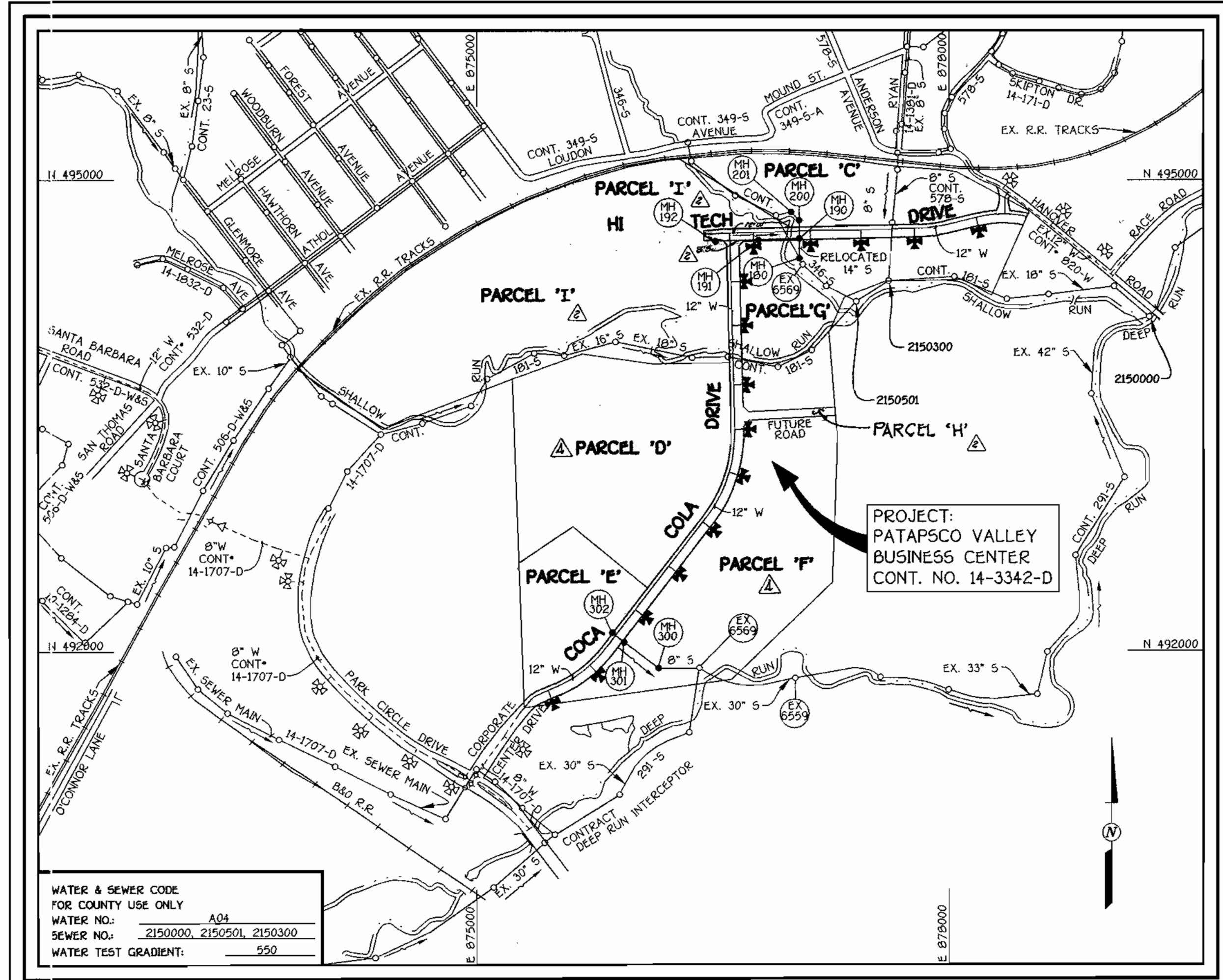


QUANTITIES				
ITEM	ESTIMATED	QUANTITIES	AS-BUILT TYPE	SUPPLIER
12" WATER	5805 LF.		12" DIP	U.S. PIPE
8" WATER	322 LF.	480	8" CL 52 DIP	U.S. PIPE
6" WATER	295 LF.			
FIRE HYDRANTS	16 EACH			MULLER CO.
3" BLOWOFF	1 EACH			KUPFERLE
AIR RELEASE MH	1 EACH			APCO
12" VALVE	10 EACH	12		MUELLER CO.
12" x 12" TEE	3 EACH			U.S. PIPE
12" x 8" TEE	2 EACH	2		U.S. PIPE
12" x 6" TEE	17 EACH	17		U.S. PIPE
12" x 8" REDUCER	2 EACH	1		U.S. PIPE
12" 1/8" H.B.	4 EACH	4		U.S. PIPE
12" 1/16" H.B.	1 EACH	1		U.S. PIPE
12" 1/32" H.B.	3 EACH	3		U.S. PIPE
12" x 8" CROSS	5 EACH	5		U.S. PIPE
12" PLUG & BUTTRESS	7 EACH			
12" TAPPING SLEEVE	1 EACH			DRESSOR
8" VALVE	2 EACH	12		MUELLER CO.
8" PLUG & BUTTRESS	8 EACH	12		U.S. PIPE
6" VALVE	16 EACH	16		MUELLER
6" 1/4" H.B.	1 EACH	1		U.S. PIPE
6" x 4" REDUCER	1 EACH	1		U.S. PIPE
4" VALVE	1 EACH	1		MUELLER CO.
4" x 3" REDUCER	1 EACH	1		U.S. PIPE
8" D.I.P. SEWER	420 LF.			U.S. PIPE
8" SEWER	590 LF.			J.M. MANUFACT.
14" D.I.P. SEWER	485 LF.			U.S. PIPE
MANHOLES	9 EACH	9		ATLANTIC CONC.
12" x 12" CROSS	3 EACH			
NAME OF UTILITY CONTRACTOR: W.F. WILSON				
SURVEY & DRAFTING DIVISION AS-BUILT DATE:				



WATER & SEWER CODE FOR COUNTY USE ONLY	WATER NO.: A04
SEWER NO.: 2150000, 2150501, 2150300	WATER TEST GRADIENT: 550
TYPE OF BUILDING: COMMERCIAL	NUMBER OF PARCELS: 7 (BUILDABLE G.)
NO. OF WATER SERVICE CONNECTIONS: 11	NO. OF SEWER SERVICE CONNECTIONS: 2
DRAINAGE AREA: PATAPSCO	TREATMENT PLANT: PATAPSCO
WASTEWATER TREATMENT PLANT: CITY OF BALTIMORE	

**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 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 (0991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- 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 - 850-4620
  - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 767-9068
  - MESS UTILITY - 1-800-257-7777
  - COLONIAL PIPELINE CO. - 795-1390
  - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT 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 REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- ALL SEWER MAINS SHALL BE D.I.P., R.C.P., C.S.P.X., R.C.C.P., V.C.P.X. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- T.B. DENOTES TEST BORING.
- 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 PLANS OR IN THE SPECIFICATIONS.
- HOUSES WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE AND COVERS, STANDARD DETAIL G5.51.
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- ALL WATER MAINS SHALL 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 ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE 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 D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATIONS C-153; DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
- 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.

**CONTRACT No. 14-3342-D**  
**PATAPSCO VALLEY BUSINESS CENTER**  
**WATER AND SEWER MAIN EXTENSIONS**  
**HOWARD COUNTY, MARYLAND**  
**DEPARTMENT OF PUBLIC WORKS**

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

*Chief Simmons* 5/4/00  
U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE

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

APPROVED:  
*J.P.M. Palant* 5/4/00  
HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AS SHOWN ON THESE PLANS AND ON F94-24.

*Paul W. Rindal* FOR PERCONTEE 04/18/00  
SIGNATURE OF DEVELOPER DATE

**DEVELOPER'S CERTIFICATION**

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

*Paul W. Rindal* FOR PERCONTEE 04/18/00  
SIGNATURE OF DEVELOPER DATE

**ENGINEER'S CERTIFICATION**

\* 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.

*A. K. Lane* 4/18/00  
SIGNATURE OF ENGINEER DATE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Robert M. Beaman</i> April 27, 2000 CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND <i>John D. ...</i> 5/8/00 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTONIAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE GLENNVIEW, MARYLAND 21042 (410) 481-2955	9757  TERRELL A. FISHER	DES: M.J.M./M.S.V. DRAWN: D.L.H. CHK: P.W.K. DATE: FEBRUARY, 00 BY: NO.	REVISIONS: <table border="1"> <tr> <th>NO.</th> <th>REVISION</th> <th>DATE</th> </tr> <tr> <td>1</td> <td>AS-BUILT DATA ADDED TO PLAN</td> <td>11/7/00</td> </tr> <tr> <td>2</td> <td>REVISED WATER SERVICE TO 12" PARCELS 'D' &amp; 'E'</td> <td>2-17-00</td> </tr> <tr> <td>3</td> <td>REVISE NO. OF PARCELS AND NO. OF WM CONNECTIONS</td> <td>5-4-01</td> </tr> <tr> <td>4</td> <td>REVISE CONT. OF HI TECH DRIVE &amp; PARCEL ASSIGNMENT</td> <td>5-4-01</td> </tr> <tr> <td>5</td> <td>REVISE QUANTITIES; LIMIT OF 4" TECH DRIVE REVISED</td> <td>5-4-01</td> </tr> </table>	NO.	REVISION	DATE	1	AS-BUILT DATA ADDED TO PLAN	11/7/00	2	REVISED WATER SERVICE TO 12" PARCELS 'D' & 'E'	2-17-00	3	REVISE NO. OF PARCELS AND NO. OF WM CONNECTIONS	5-4-01	4	REVISE CONT. OF HI TECH DRIVE & PARCEL ASSIGNMENT	5-4-01	5	REVISE QUANTITIES; LIMIT OF 4" TECH DRIVE REVISED	5-4-01	<b>TITLE SHEET</b> 600' SCALE MAP NO. 38 BLOCK NO. 22 T.C.C. WORK ORDER NO. 10195 FILE NAME: 14-3342-PATAPSCO VALLEY BUSINESS CENTER-042000.DWG	<b>PATAPSCO VALLEY BUSINESS CENTER</b> <b>CONTRACT No. 14-3342-D</b> <b>FIRST ELECTION DISTRICT</b> <b>HOWARD COUNTY, MARYLAND</b>	SCALE AS SHOWN SHEET L. OF 3
NO.	REVISION	DATE																								
1	AS-BUILT DATA ADDED TO PLAN	11/7/00																								
2	REVISED WATER SERVICE TO 12" PARCELS 'D' & 'E'	2-17-00																								
3	REVISE NO. OF PARCELS AND NO. OF WM CONNECTIONS	5-4-01																								
4	REVISE CONT. OF HI TECH DRIVE & PARCEL ASSIGNMENT	5-4-01																								
5	REVISE QUANTITIES; LIMIT OF 4" TECH DRIVE REVISED	5-4-01																								

ELEV. 1300  
N 494.000



PARCEL 'I'

NOTE: SETTING OF 12" PILE TO BE ABANDONED & REMOVED  
100 YEAR FLOODPLAIN ELEVATION

PARCEL 'I'

NOTE: FOR WATER MAIN TABULATION CHART; SEE SHEET G OF D

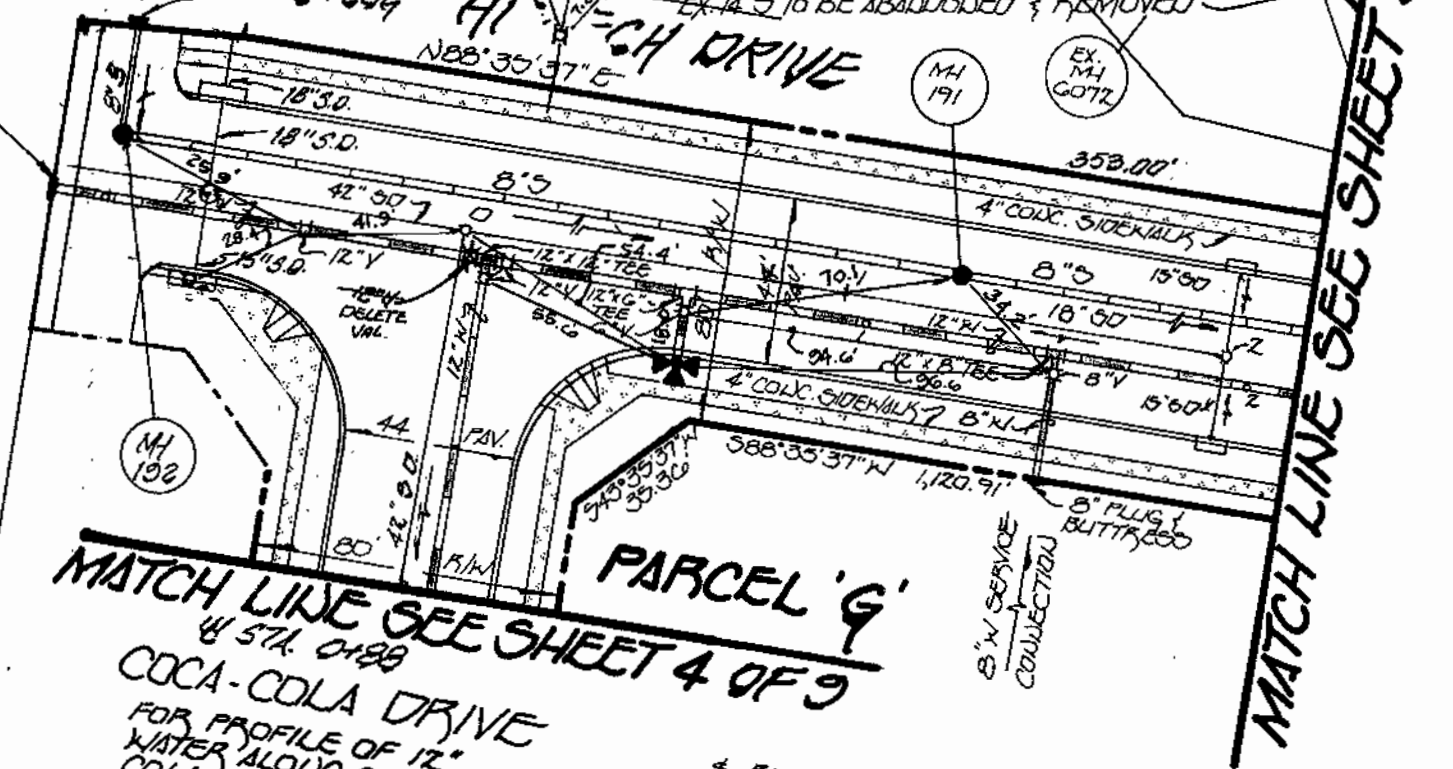
ELEV. 1300  
N 494.000

SEE SHEET B FOR PROFILE OF ALLOCATED 14" C&G

PARCEL 'C'

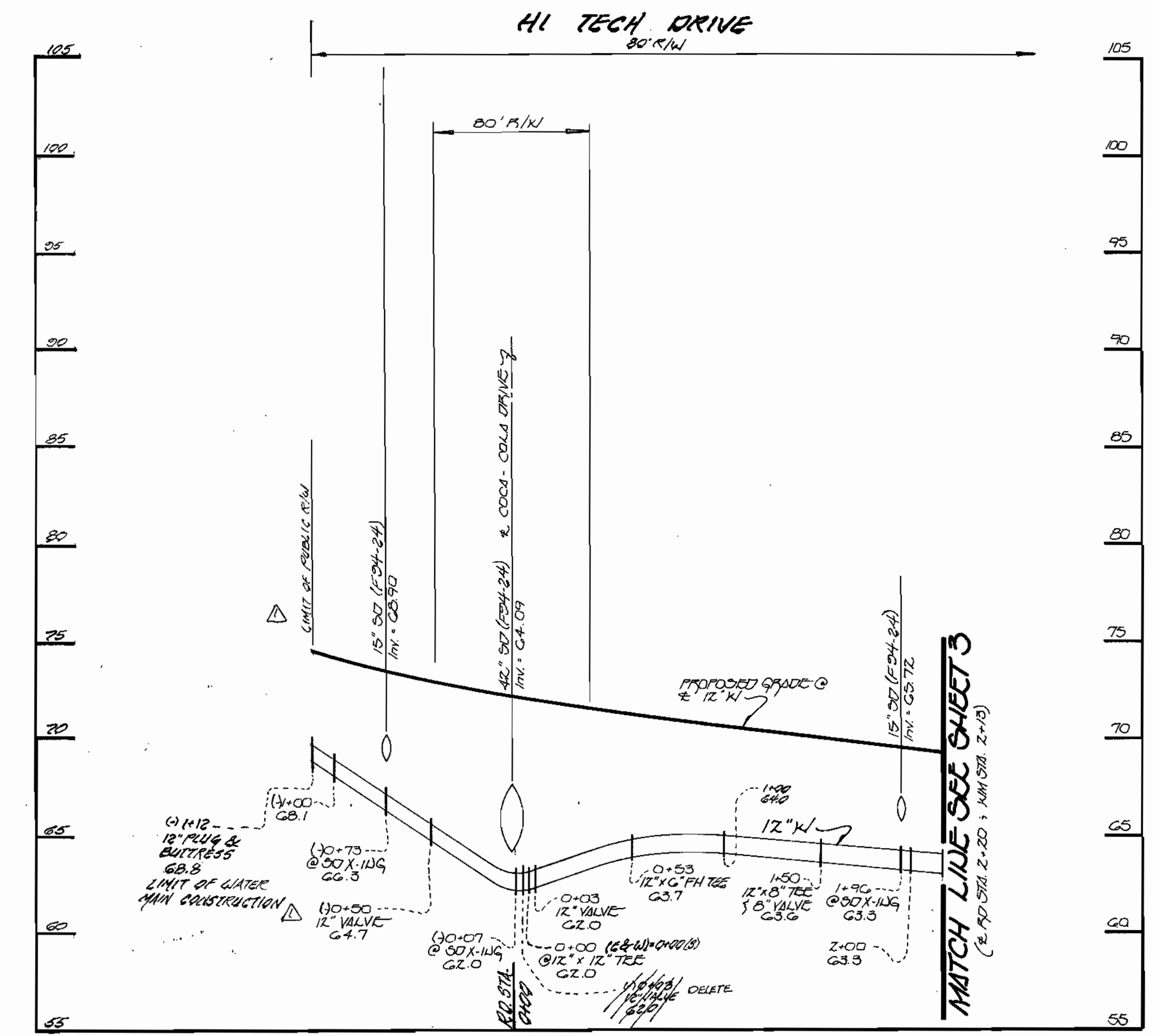
SEE SHEET B FOR COMPLETE PLAN VIEW OF 14" C&G (MAN RELIEF)

PARCEL 'I'



MATCH LINE SEE SHEET 4 OF 3  
COCA-COLA DRIVE  
FOR PROFILE OF 12" WATER MAINS SEE SHEETS 4, 5 & 6

14" DIA. 0+00  
FINE HYDRAULIC CURVE L&L = 71.55  
(2.5 V.F.)  
SET 8' BEHIND CROCK OF CURB



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

CONTRACT NO. 14-3342-D  
PATAPSCO VALLEY BUSINESS CENTER  
WATER AND SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Robert M. Baunig April 27, 2000  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
Hon. [Signature] 5/10/00  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Fisher, Collins & Carter, Inc.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK  
10712 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MARYLAND 21032  
(410) 401-2800

#9757  
[Signature]  
TERRELL A. FISHER

DES: M.J.M.			
DRWN: J.M.M.			
CHK: P.W.K.	K.C.I. b	AS BUILT DATA ADDED TO PLAN	11/7/00
	D.A.N.	REVISE PARCEL INFORMATION	5/4/01
	C.A.M.	REVISE LIMIT OF SUBMISSIONS; REVERSE LIMIT OF HI TECH DRIVE	5/14/01
DATE: FEB 00	BY NO.	REVISION	DATE

WATER AND SEWER MAINS  
PLAN & PROFILE  
60' SCALE MAP NO. 38 BLOCK NO. 20

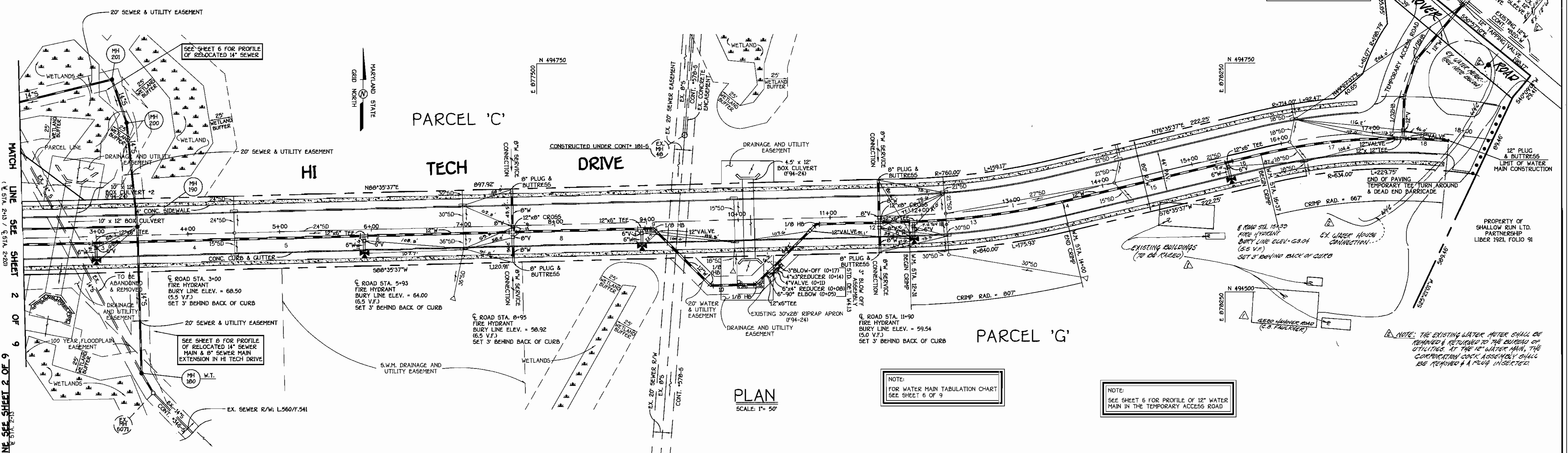
PATAPSCO VALLEY BUSINESS CENTER  
CONTRACT NO. 14-3342-D  
FIRST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 2 OF 9



NOTE: SEE SHEET 8 FOR COMPLETE PLAN VIEW OF 14" SEWER MAIN RELOCATION.

SEE SHEET 6 OF 9 FOR PROFILE OF 12" WATER MAIN TO HANOVER ROAD



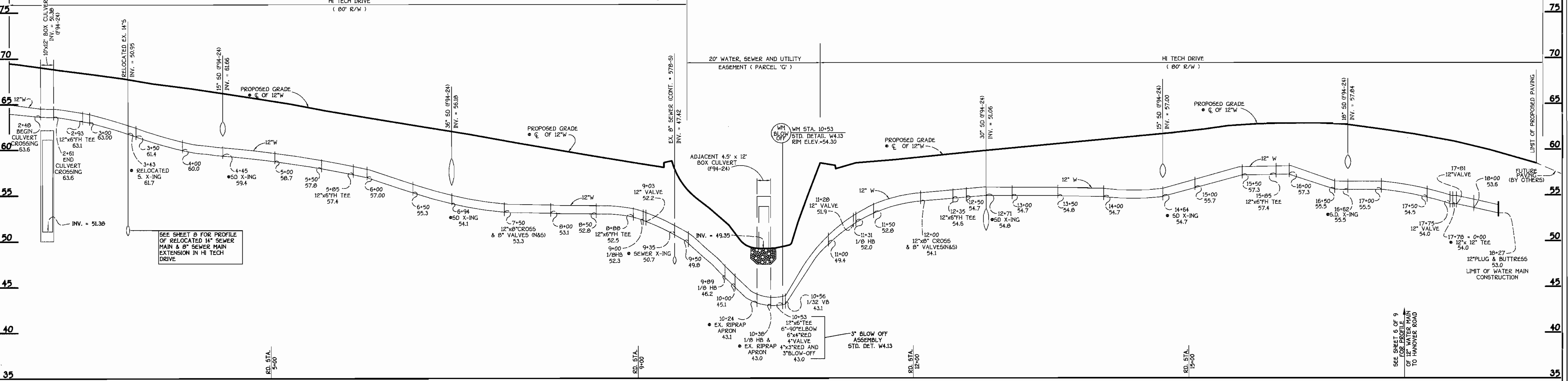
PLAN  
SCALE: 1" = 50'

NOTE:  
FOR WATER MAIN TABULATION CHART  
SEE SHEET 6 OF 9

NOTE:  
SEE SHEET 6 FOR PROFILE OF 12" WATER MAIN IN THE TEMPORARY ACCESS ROAD

NOTE: THE EXISTING WATER METER SHALL BE REMOVED & RETURNED TO THE BUREAU OF UTILITIES. AT THE 12" WATER MAIN, THE COMPARISON COCK ASSEMBLY SHALL BE REMOVED & A PLUG INSERTED.

MATCH LINE SEE SHEET 2 OF 9

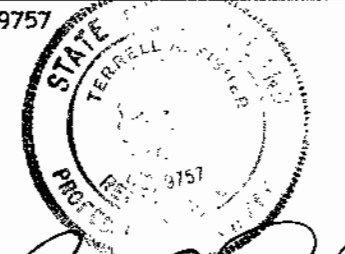


PROFILE  
SCALE: 1" = 50' HORIZ.  
1" = 5' VERT.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK 10272 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MARYLAND 21042  
4101 461-1899



DESIGNED BY:	M.J.M./M.S.V.
DRAWN BY:	
DLH	
CHECKED BY:	KCI ASBUILT DATA ADDED TO PLAN 11/07/08
P.W.C.	
DATE:	FEBRUARY, 00
BY NO.	
REVISION	

WATER AND SEWER MAINS  
PLAN & PROFILE

600' SCALE MAP NO. 38 BLOCK NO. 20  
F.C.C. WORK ORDER NO. 40225  
FILE NAME: 4012WS3.DWG

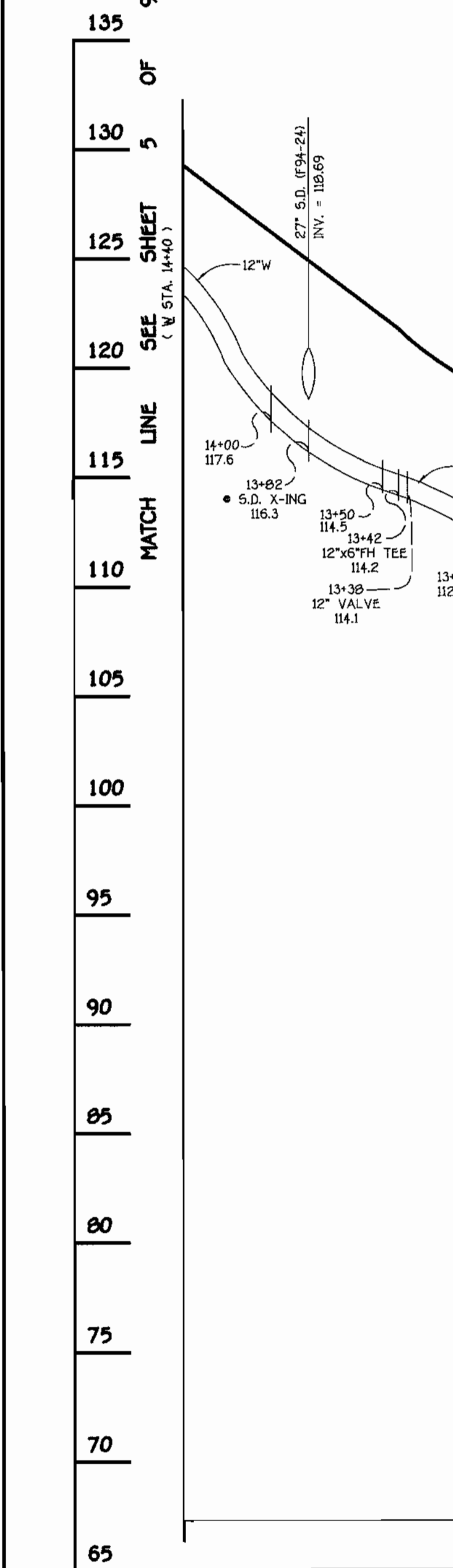
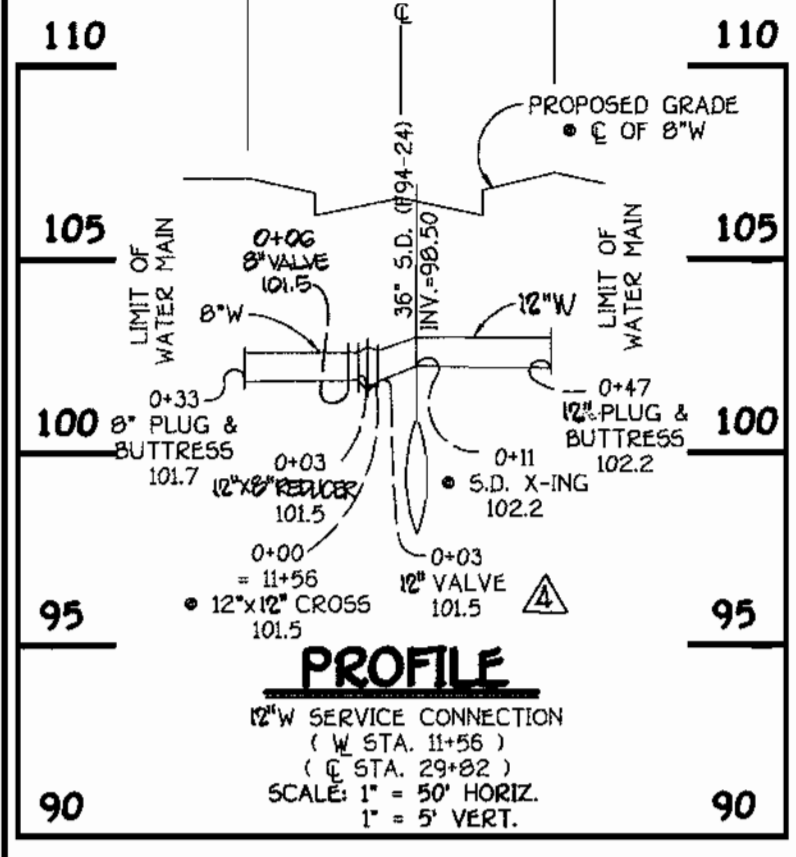
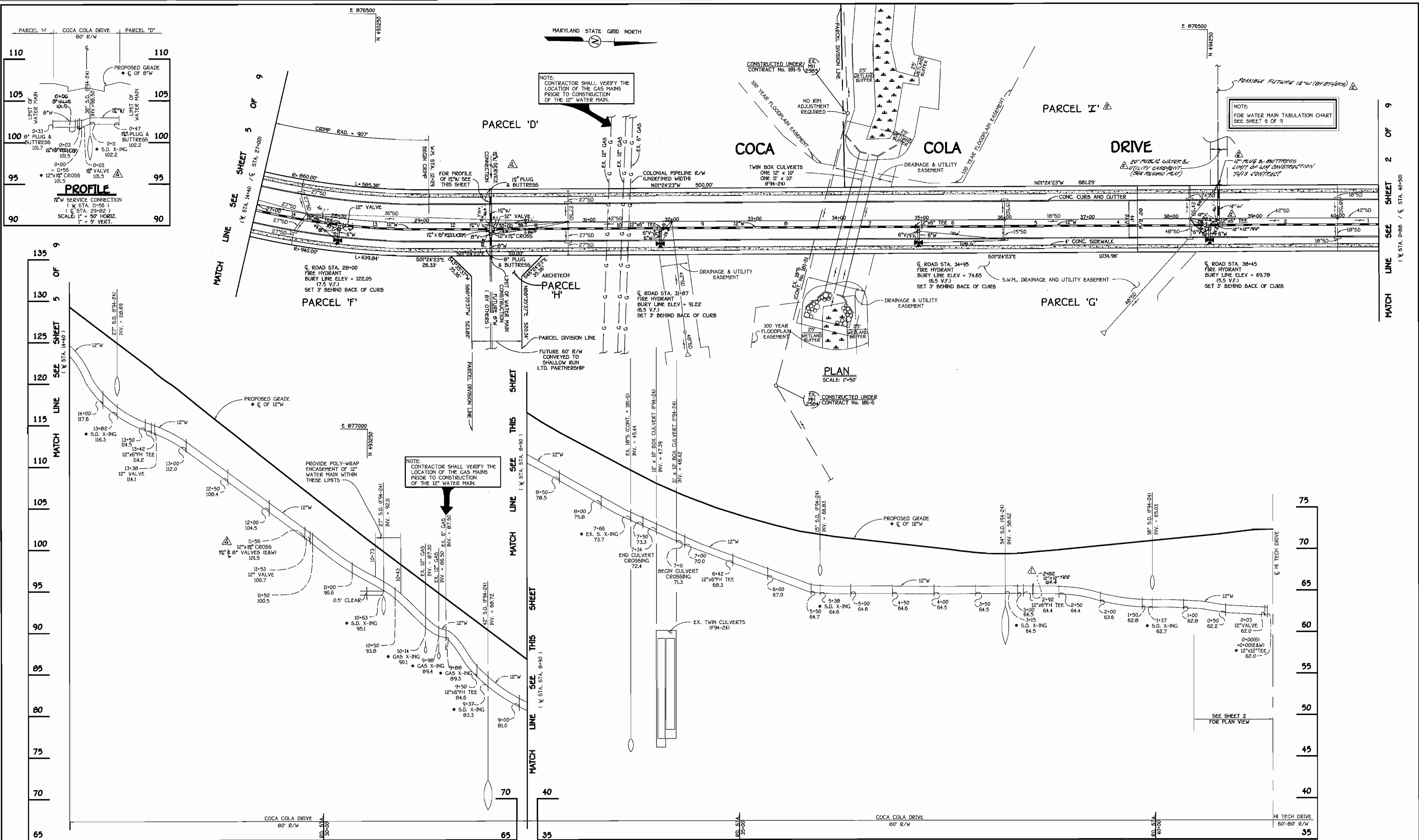
PATAPSCO VALLEY BUSINESS CENTER  
CONTRACT NO. 14-3342-D  
FIRST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE  
AS  
SHOWN  
SHEET  
3 OF 9

Chief, Bureau of Utilities  
DATE: April 27, 2000

Chief, Development Engineering Division  
DATE: 5/16/00

CONTRACT No. 14-3342-D  
PATAPSCO VALLEY BUSINESS CENTER  
WATER & SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND

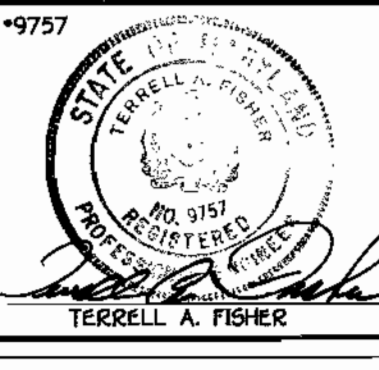


**PROFILE**  
SCALE: 1" = 50' HORIZ.  
1" = 5' VERT.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Robert M. Baizer  
CHIEF, BUREAU OF UTILITIES  
April 27, 2000

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
[Signature]  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
5/6/00

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - SUITE 300 BALTIMORE NATIONAL FREE  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461-2855



DESIGNED BY:	MJM/MSV.	KCI	5	ASBUILT DATA ADDED TO PLAN	11/7/08
DRAWN BY:	DLH	PDC	1	REVISED WATER SERVICE, 6" TO 12", PARCELS 'D' & 'F'	3-17-08
CHECKED BY:	P.W.K.	DAN	1	REVISE PARCEL DESIGNATION	5-14-01
DATE:	FEBRUARY, 00	DAN	1	ADD 12" W, TEE & VALVE; ADD 20" PUBLIC WATER & UTILITY EASEMENT	5-14-01
BY:	NO.	DAN	1	ADD 12" X 12" TEE IN PROFILE AT W.N. STA. 898.0 COCA COLA DRIVE	5-14-01

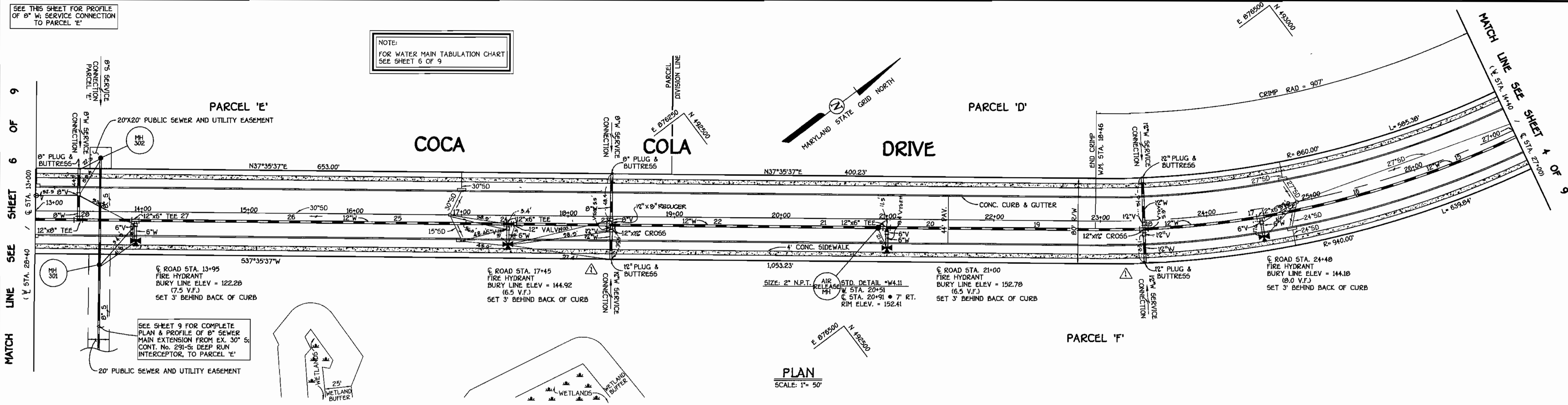
**WATER AND SEWER MAINS  
PLAN & PROFILE**  
600' SCALE MAP NO. 38 BLOCK NO. 20  
F.C.C. WORK ORDER NO. 40183  
FILE NAME: 40183WS4.DWG

CONTRACT NO. 14-3342-D  
PATAPSCO VALLEY BUSINESS CENTER  
WATER & SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND  
FIRST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
SCALE AS SHOWN  
SHEET 2 OF 9

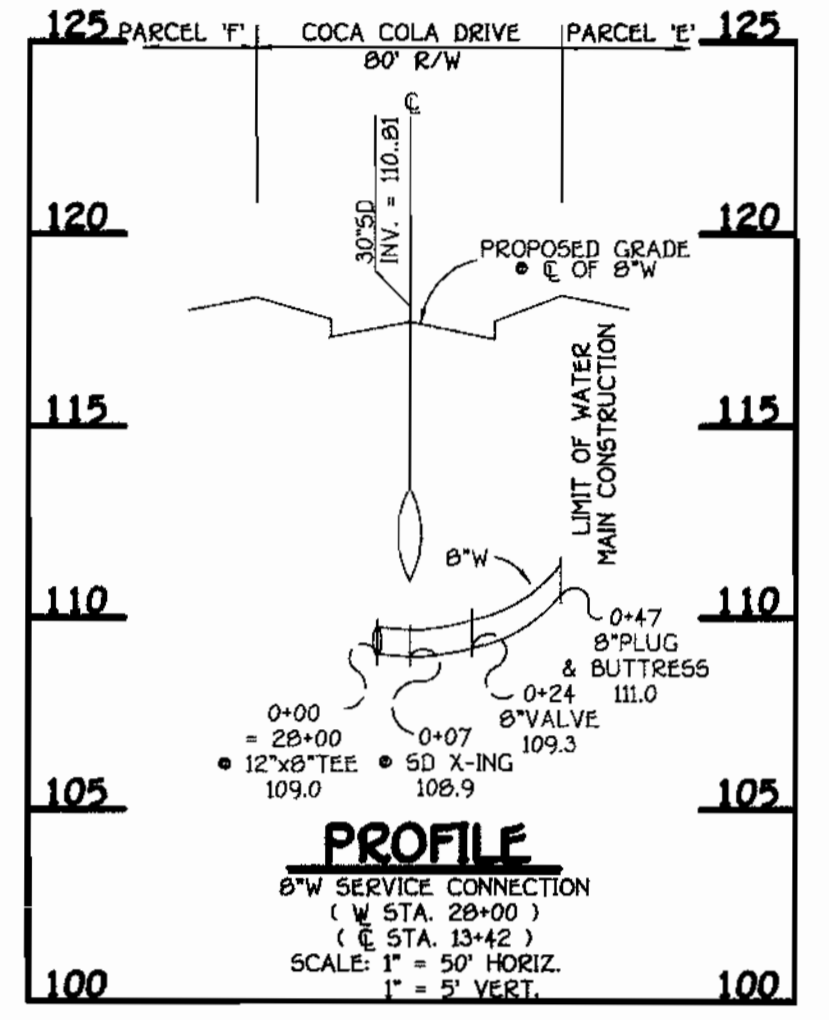


SEE THIS SHEET FOR PROFILE OF 8" W. SERVICE CONNECTION TO PARCEL 'E'

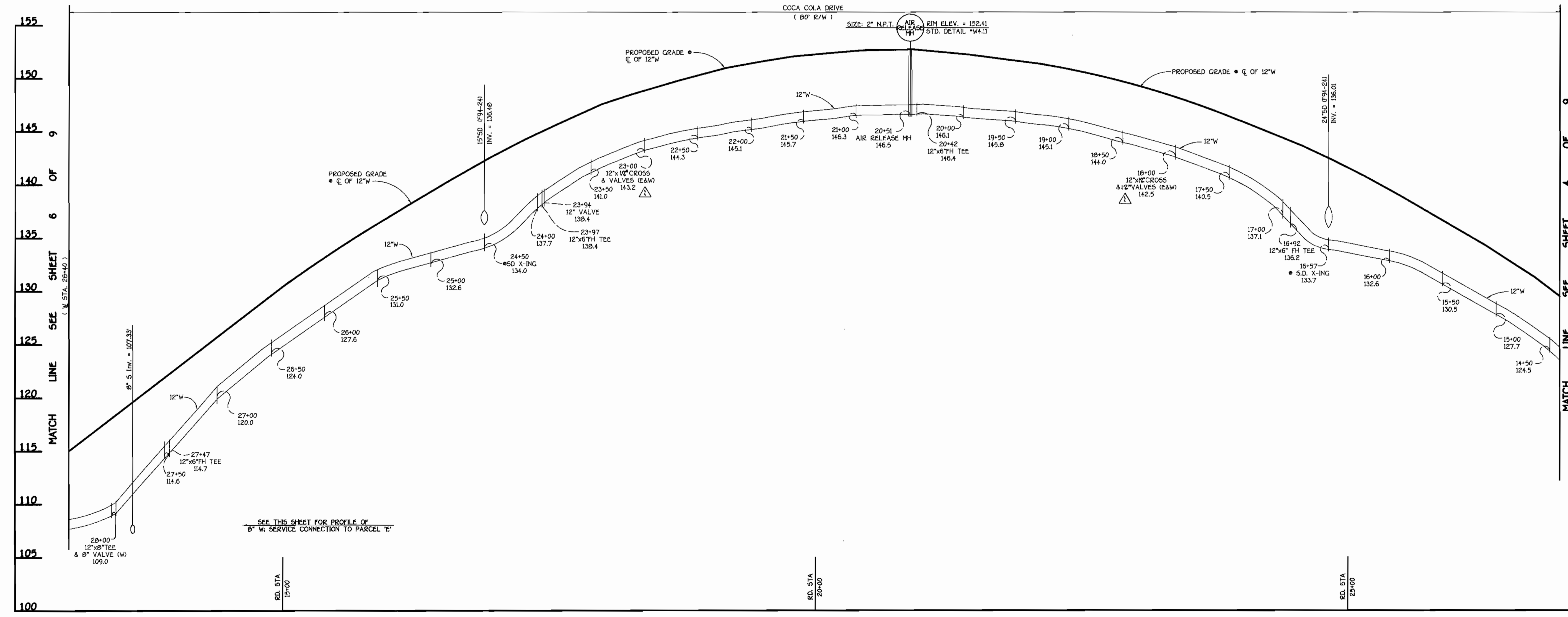
NOTE:  
FOR WATER MAIN TABULATION CHART SEE SHEET 6 OF 9



PLAN  
SCALE: 1" = 50'



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



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

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
April 27, 2000

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
5/10/00

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
TERRELL A. FISHER

DES: M.J.M./M.S.V.  
DRWN: D.L.H.  
CHK: P.W.K.  
DATE: FEBRUARY, 00

WATER AND SEWER MAINS  
PLAN & PROFILE  
KCI 2  
REVISION: ASBUILT DATA ADDED TO PLAN  
REVISION: REVISED WATER SERVICE, 8" TO 12", PARCELS 'D' & 'F'

600' SCALE MAP NO. 38 BLOCK NO. 20  
F.C.C. WORK ORDER NO. 40183  
FILE NAME: 40182MS5.DWG

PATAPSCO VALLEY BUSINESS CENTER  
CONTRACT NO. 14-3342-D  
FIRST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

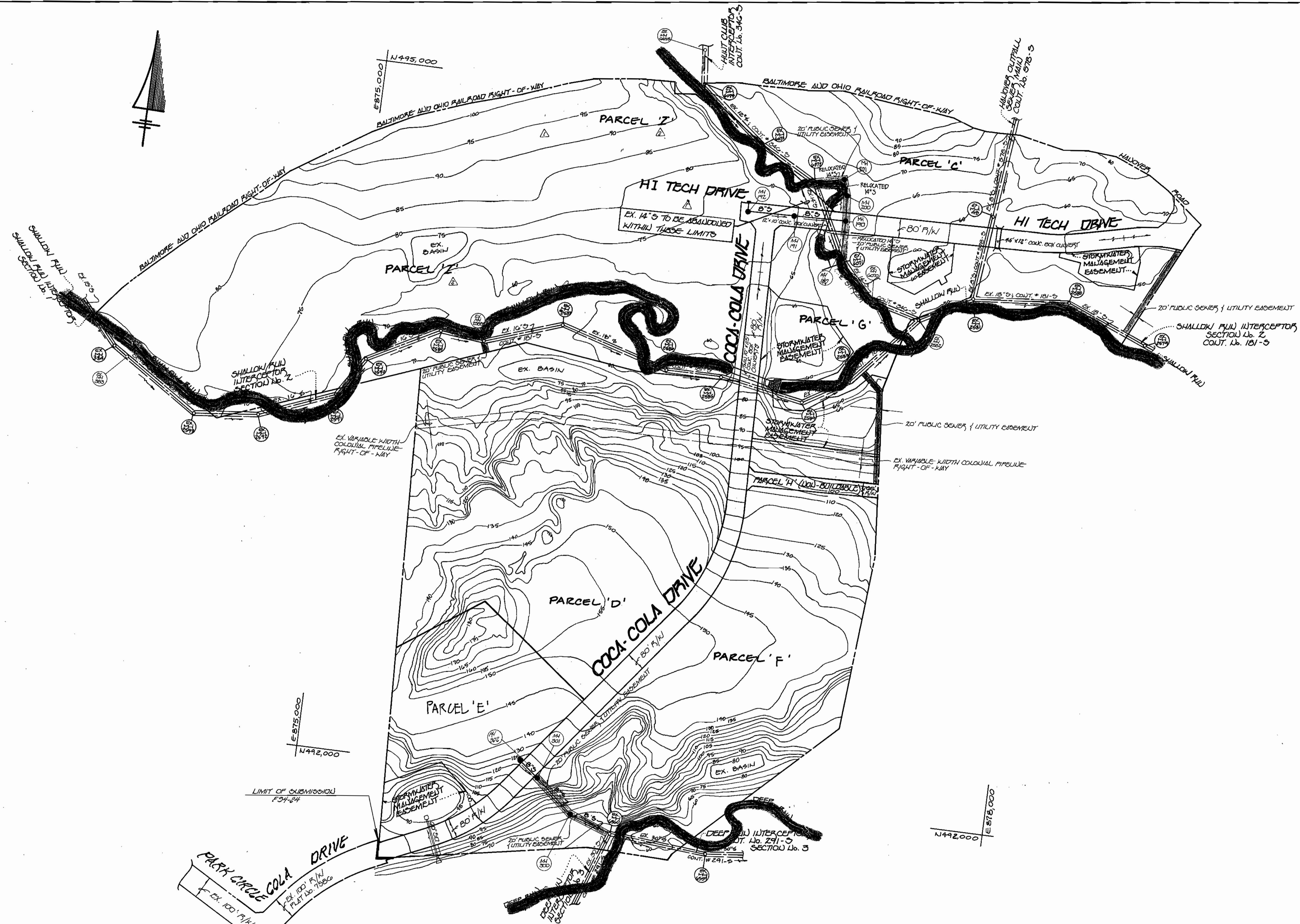
SCALE: AS SHOWN  
SHEET 5 OF 9

CONTRACT No. 14-3342-D  
PATAPSCO VALLEY BUSINESS CENTER  
WATER & SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND









PATAPSCO VALLEY BUSINESS CENTER: PARCELS C THRU I

PLAN  
SCALE: 1" = 200'

CONTRACT NO. 14-3342-D  
PATAPSCO VALLEY BUSINESS CENTER  
PARCELS C - I  
WATER AND SEWER MAIN EXTENSIONS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Robert B. Berman April 2, 2010  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
[Signature] 5/16/10  
CHIEF, DEVELOPMENT ENGINEERING DIVISION

FISHER, COLLINS, AND CARTER, INC.  
CENTENNIAL SQUARE OFFICE PARK  
10272 BALTIMORE NATIONAL PIKE  
ELLCOTT CITY, MARYLAND 21042  
(410) 461-2855



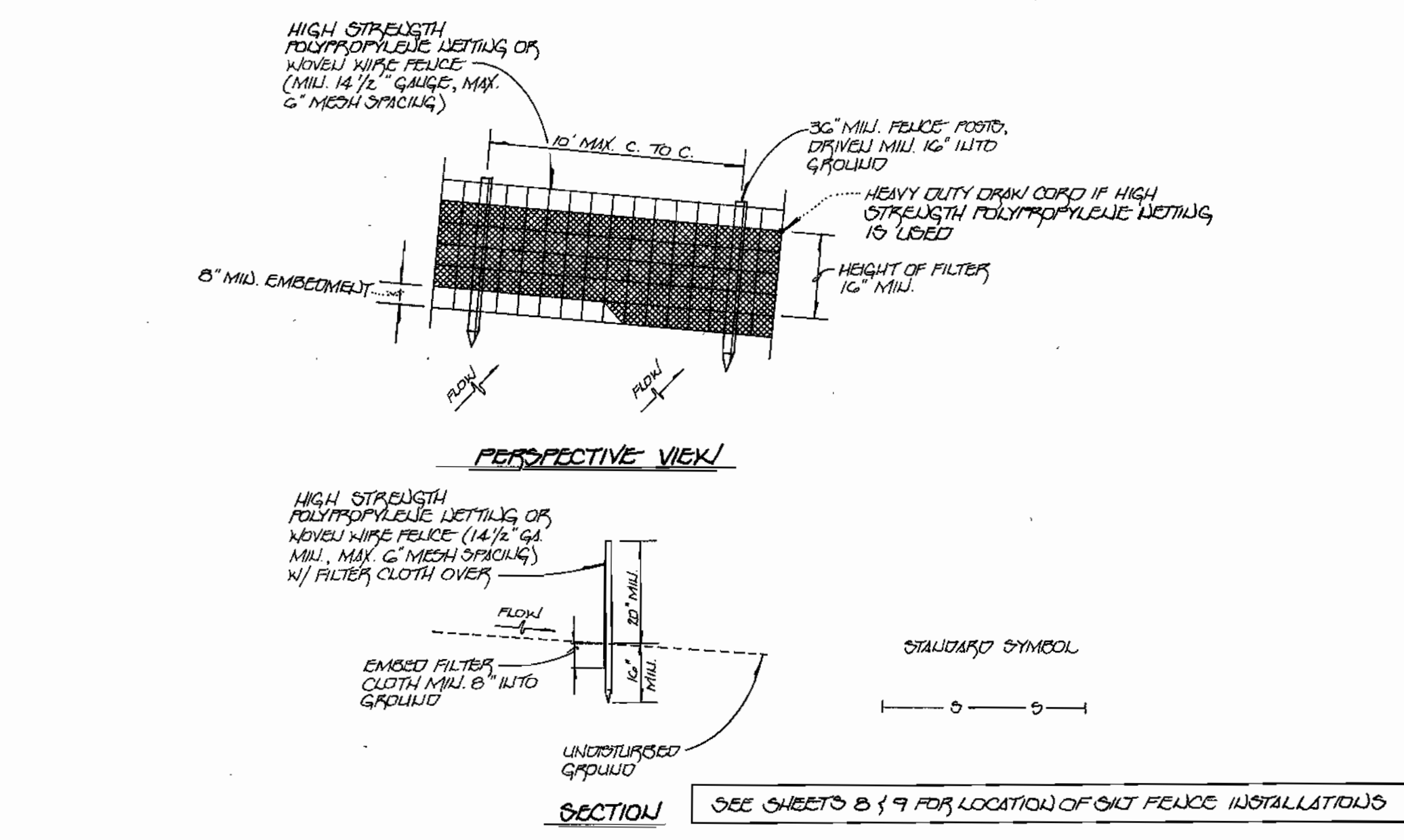
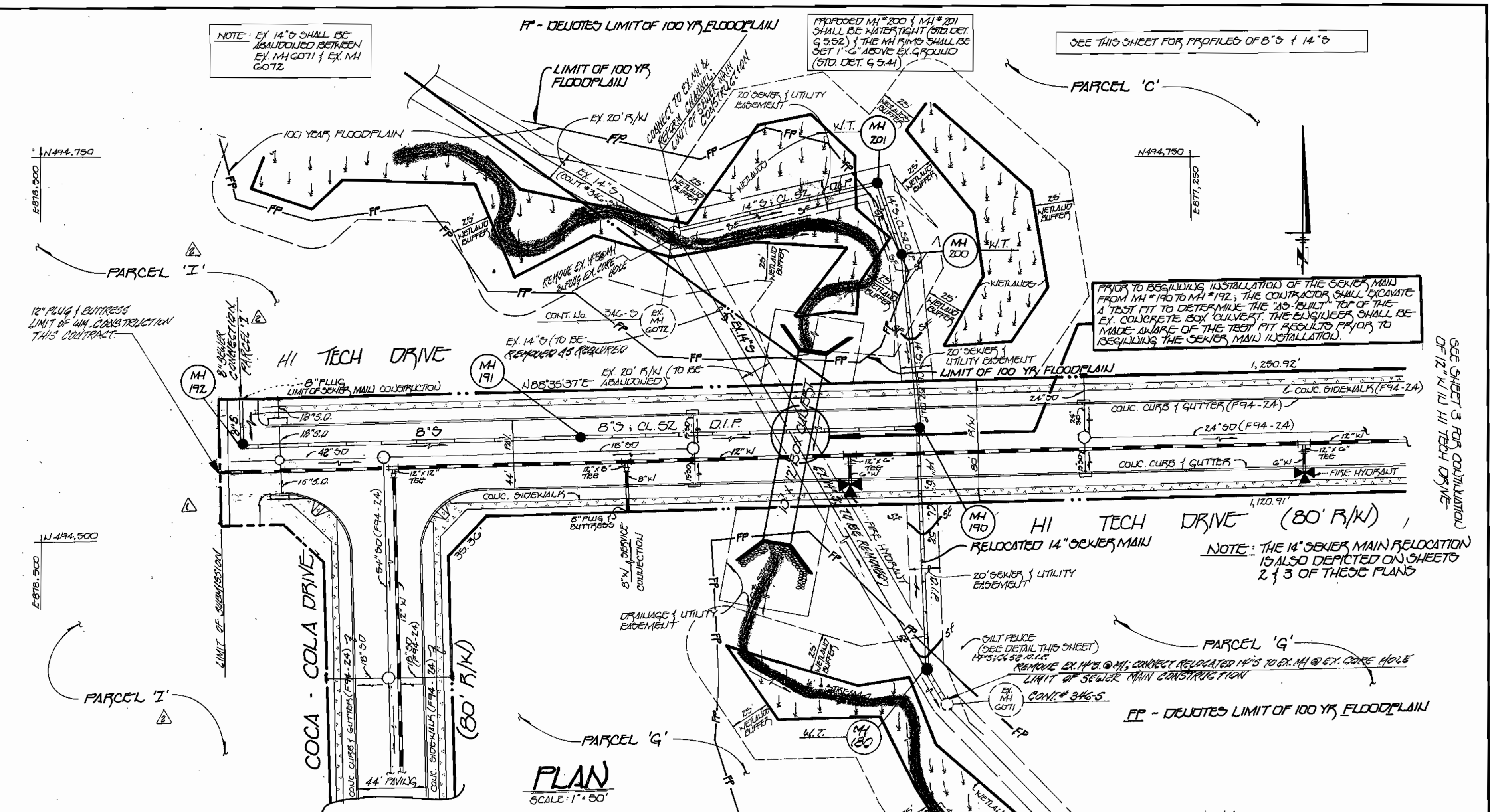
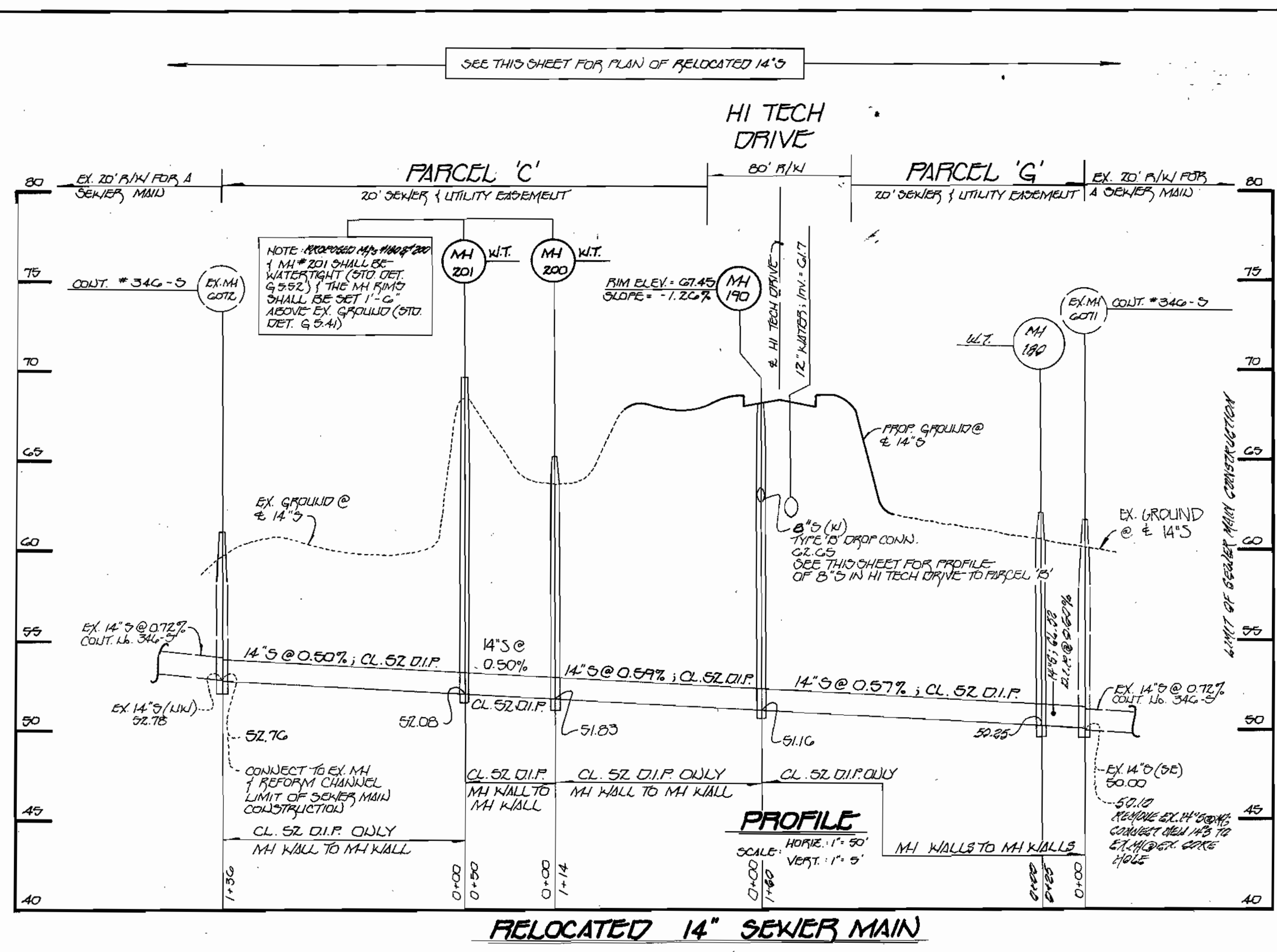
DES: M.J.M./M.S.V.					
DRN: M.S.V.					
CHK: P.W.K.	D.A.N.	REVISE PARCEL OCCUPATION ON PLAN & CONTRACT TITLE	5/14/10		
DATE: FEB. 10	D.A.N.	CREATE SHOWN AND REVISE LIMIT OF HI TECH DRIVE	5/14/10		
	BY NO.	REVISION	DATE	600' SCALE MAP NO	3B BLOCK NO. 20

OVERVIEW  
EXISTING & PROPOSED SEWER MAINS  
PLAN

PATAPSCO VALLEY BUSINESS CENTER  
PARCELS C, THRU I  
CONTRACT NO. 14-3342-D  
FIRST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

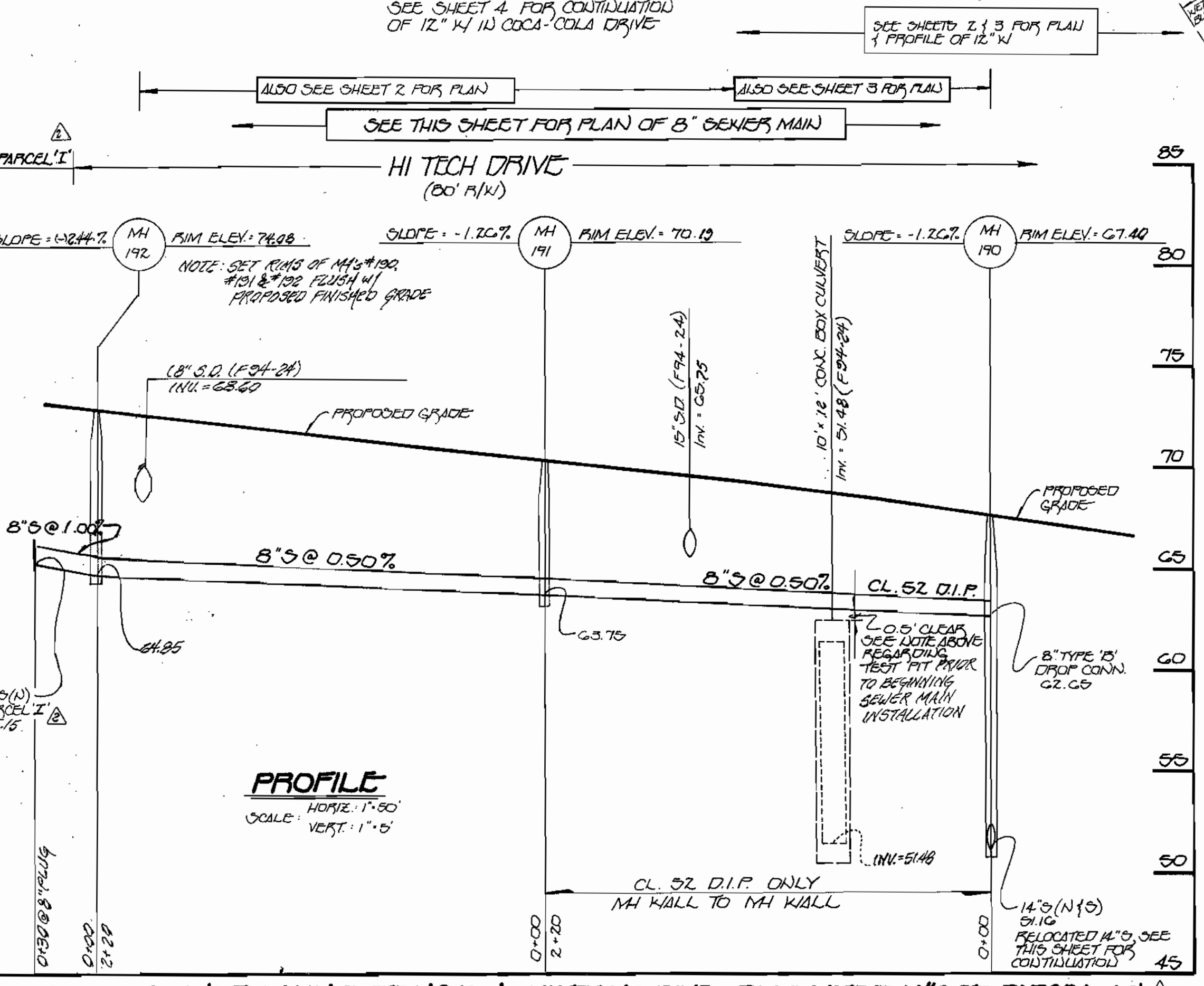
SCALE AS SHOWN  
SHEET 7 OF 9





- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
- 1) FENCE OR DETTING SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
  - 2) FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP 1' MID SECTION.
  - 3) WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES & FOLDED.
  - 4) MAINTENANCE SHALL BE PERFORMED AS NEEDED & MATERIAL REPLACED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- POSTS: OBTAIN EITHER T OR U TYPE OR 2" HARDWOOD
- FENCE: WOVEN WIRE, 14 GA. C
- MAX. MESH OPENING: 1" OR HIGH STRENGTH POLYPROPYLENE DETTING
- FILTER CLOTH: FILTER X, MIRAFI 100X, STABILIZED TIA OR OF APPROVED EQUAL

**SILT FENCE**  
NOT TO SCALE



**8-INCH SEWER MAIN EXTENSION: HI TECH DRIVE - RELOCATED 14" S TO PARCEL 'I'**

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

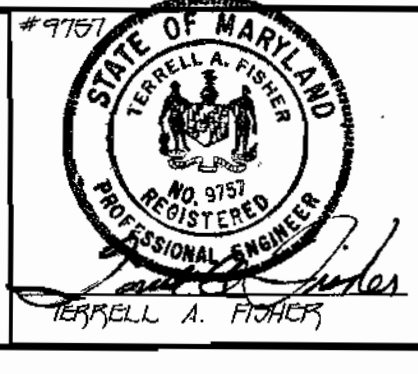
Robert Benjamin April 27, 2020  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

5/6/20  
CHIEF, DEVELOPMENT CHANGEMANAGEMENT DIVISION

FISHER, COLLINS, AND CARTER, INC.

CONSTRUCTION SQUARE OFFICE PARK,  
10272 BALTIMORE NATIONAL PIKE  
ELICOTT CITY, MARYLAND 21042  
(410) 901-2855



DES: M.J.M.					
DRN: J.M.M.					
CHK: F.W.H.	D.A.N.	REVISE PARCEL DISTRIBUTION IN PLAN & CONTRACT TITLE	5-1-21		
DATE: FEB. 20	D.A.N.	REVISE LIMIT OF SUBMISSIONS, REVISE LIMIT OF HI TECH DRIVE	5-1-21		
	BY NO.	REVISION	DATE		

SEWER MAIN EXTENSIONS  
PLAN & PROFILES

600' SCALE MAP NO. 38 BLOCK NO. 20

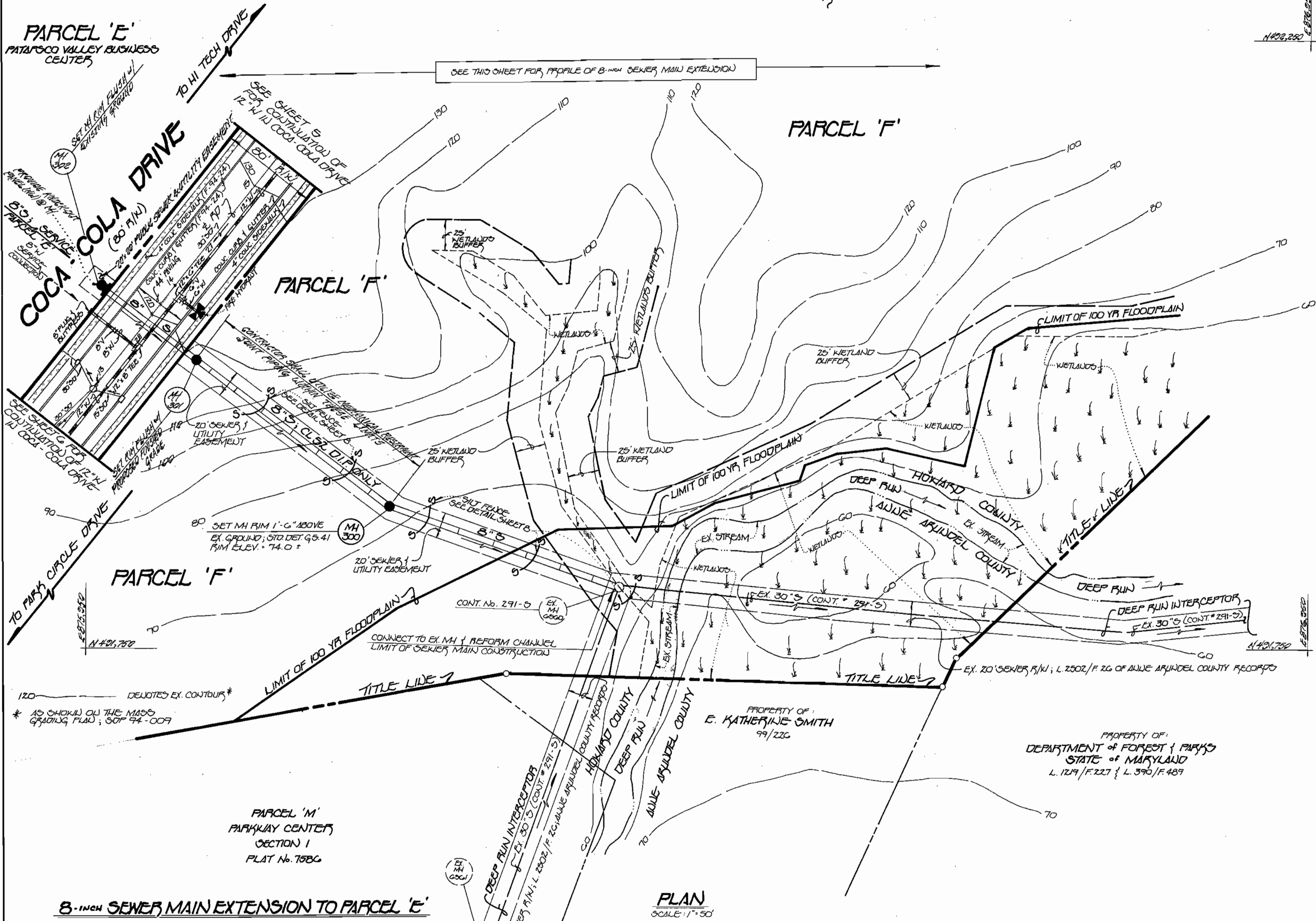
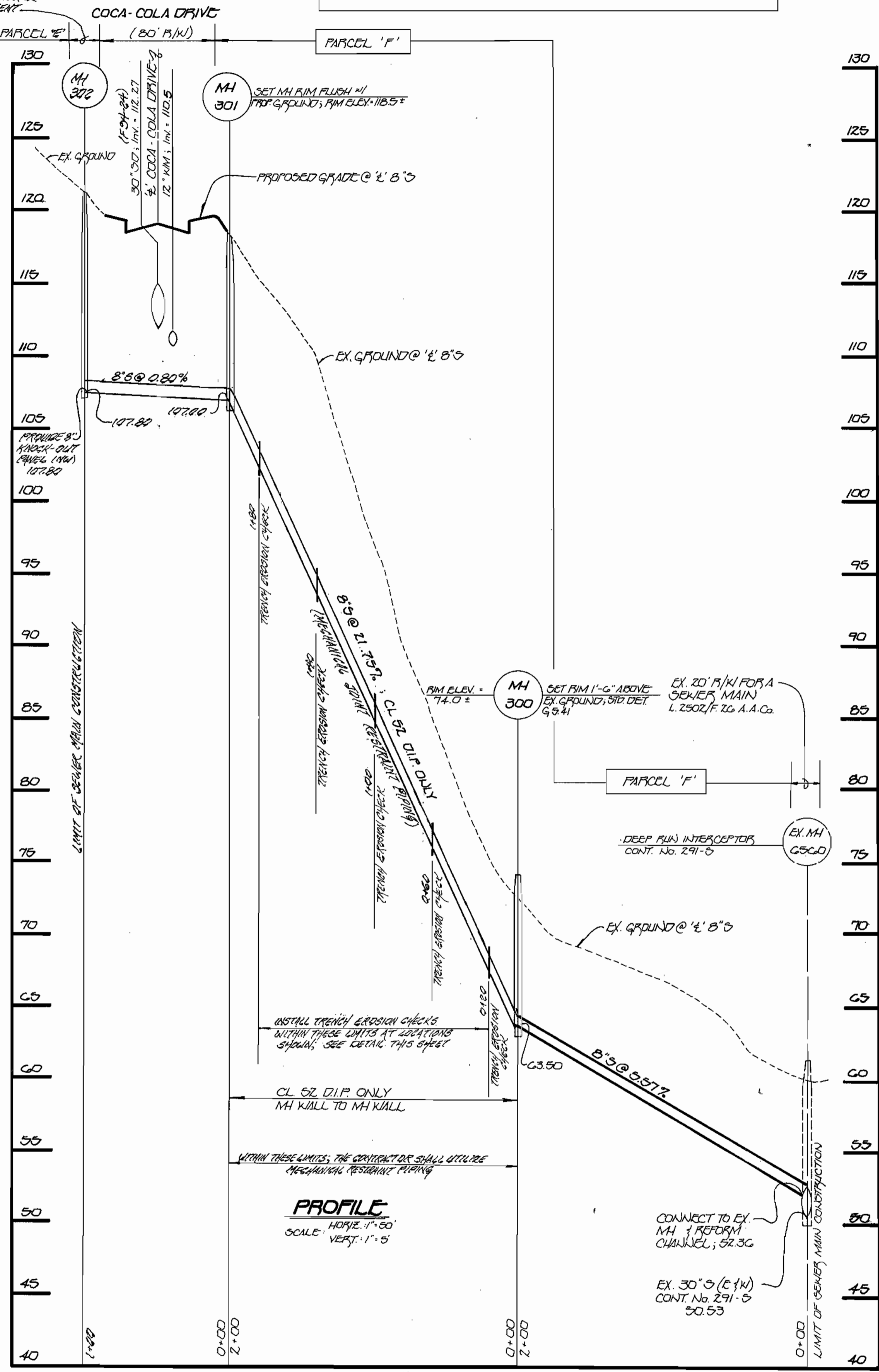
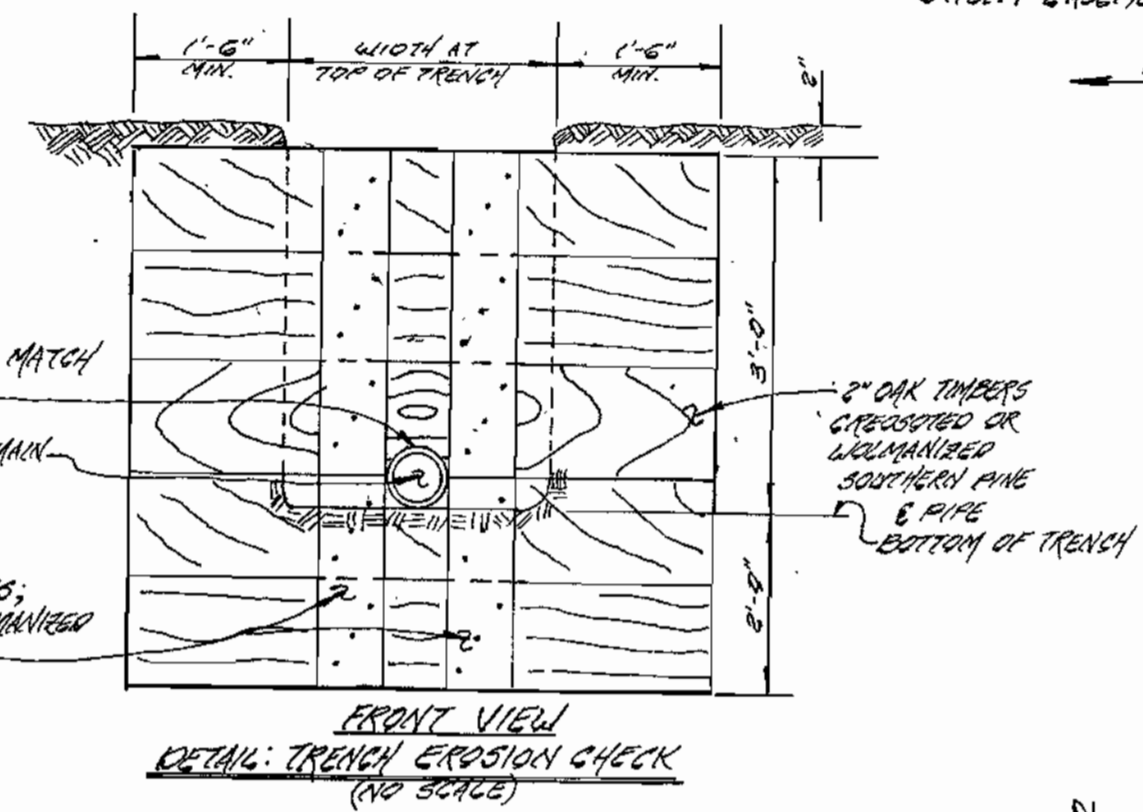
PATAPOCO VALLEY BUSINESS CENTER  
PARCELS C & THRU I  
CONTRACT NO. 14-3342-D  
FIRST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 8 OF 9



SEE THIS SHEET FOR PLAN OF B' & D

NOTES  
1. MAN BATTERS TO TARGETS  
2. INSTALL TRENCH EROSION CHECKS AT LOCATIONS SHOWN IN PROFILE THIS SHEET.



8-INCH SEWER MAIN: EX. 30" SEWER MAIN TO PARCEL 'E'

CONTRACT NO. 14-3342-D  
PATAPSCO VALLEY BUSINESS CENTER  
PARCELS C, D, THRU I & J  
FIRST ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Robert M. Burgess April 22, 2000  
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
Chief, Development Engineering Division

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
10272 CALVERTON AVENUE NATIONAL PIKE  
ELLICOTT CITY, MARYLAND 21030  
(410) 461-2855

DES:	M.J.M.
DRWN:	J.M.M./M.J.M.
CHK:	P.W.K.
DATE:	FEB. 00
BY:	NO.
REVISION:	REVISION

8-INCH SEWER MAIN EXTENSION  
PLAN & PROFILE  
60' SCALE MAP NO. 38 BLOCK NO. 20

SCALE AS SHOWN  
SHEET 9 OF 9