

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 TUNNELS 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 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 IF 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.....	545-0300
BALTIMORE GAS & ELECTRIC CO. CONTRACTOR SERVICES.....	850-4620
BALTIMORE GAS & ELECTRIC CO. UNDERGROUND DAMAGE CONTROL.....	787-9069
MISS UTILITY.....	1-800-257-7777
COLONIAL PIPELINE CO.....	795-1390
BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.....	313-4900
- 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 FILL AREAS WITHIN FUTURE ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION AS DETERMINED BY AASHTO T-180.
- VALVES ADJACENT TO TREES SHALL BE STRAPPED TO TREES.
- 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.
- 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 TO THE BURY LINE 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 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 DPW REQUIREMENTS PER SECTION 18.114(A) OF THE HOWARD COUNTY CODE.
- 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 WATER MAINS SHALL BE D.I.P. AND P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- MANHOLES MUST BE PRECAST CONCRETE STRUCTURE.
- MANHOLES SHOWN WITH 12" AND 16" AREA ARE FOR BRICK MANHOLES ONLY.

THESE REVISED WATER AND SEWER CONSTRUCTION PLANS SUPERSEDE THE CONSTRUCTION PLANS APPROVED AND SIGNED BY THE CHIEF OF DEVELOPMENT ENGINEERING DIVISION ON 5/22/99.

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-85 AND FDP 117 A-1

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

APPROVED: *John K. Roberts* 3/31/00
 HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Cheryl Simmons 3/31/00
 U.S. SOIL CONSERVATION SERVICE DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MD

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MD

Robert M. Beiman 3-31-00
 CHIEF, BUREAU OF UTILITIES DATE

[Signature]
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Barakos-Landino Design Group
 ENGINEERS / PLANNERS / SURVEYORS / LANDSCAPE ARCHITECTS
 849 INTERNATIONAL DR.
 LINTHICUM, MD 21090
 (410) 859-9100
 (410) 859-9958 Fax



DESIGNED : M.A.D.
 DRAWN : J.E.T.
 CHECKED : R.A.M.

COVER SHEET
GENERAL NOTES AND LOCATION MAP

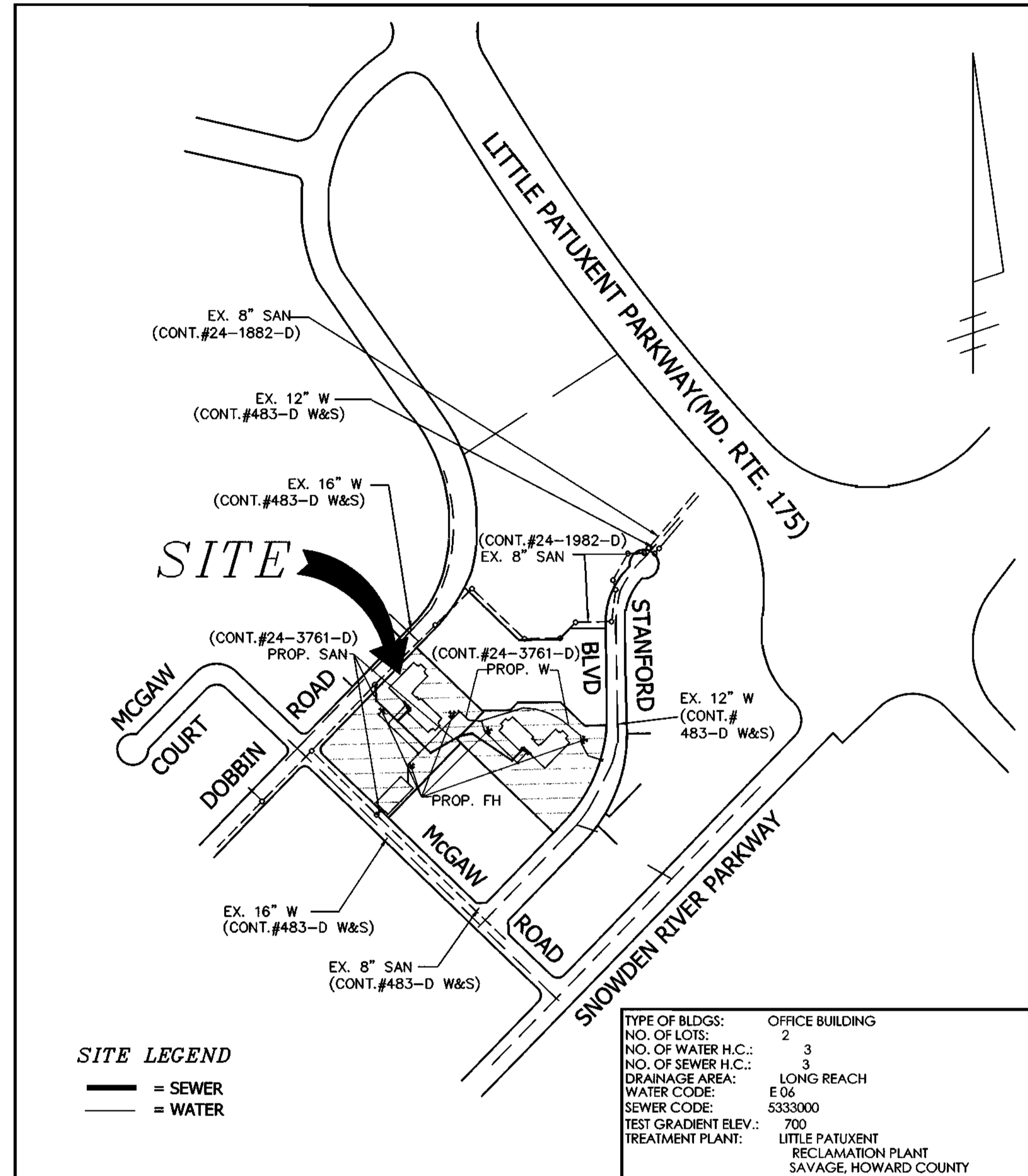
CONTRACT NO. 24-3761-D
 600 SCALE MAP NO. 36

BLOCK NO. 23 & 24

PUBLIC WATER AND SEWER MAIN
COLUMBIA CORPORATE PARK

HOWARD COUNTY, MARYLAND
 ELECTION DISTRICT #6

CONTRACT NO. 24-3761-D
 FEBRUARY 23, 1999
 SHEET 1 OF 4



VICINITY MAP

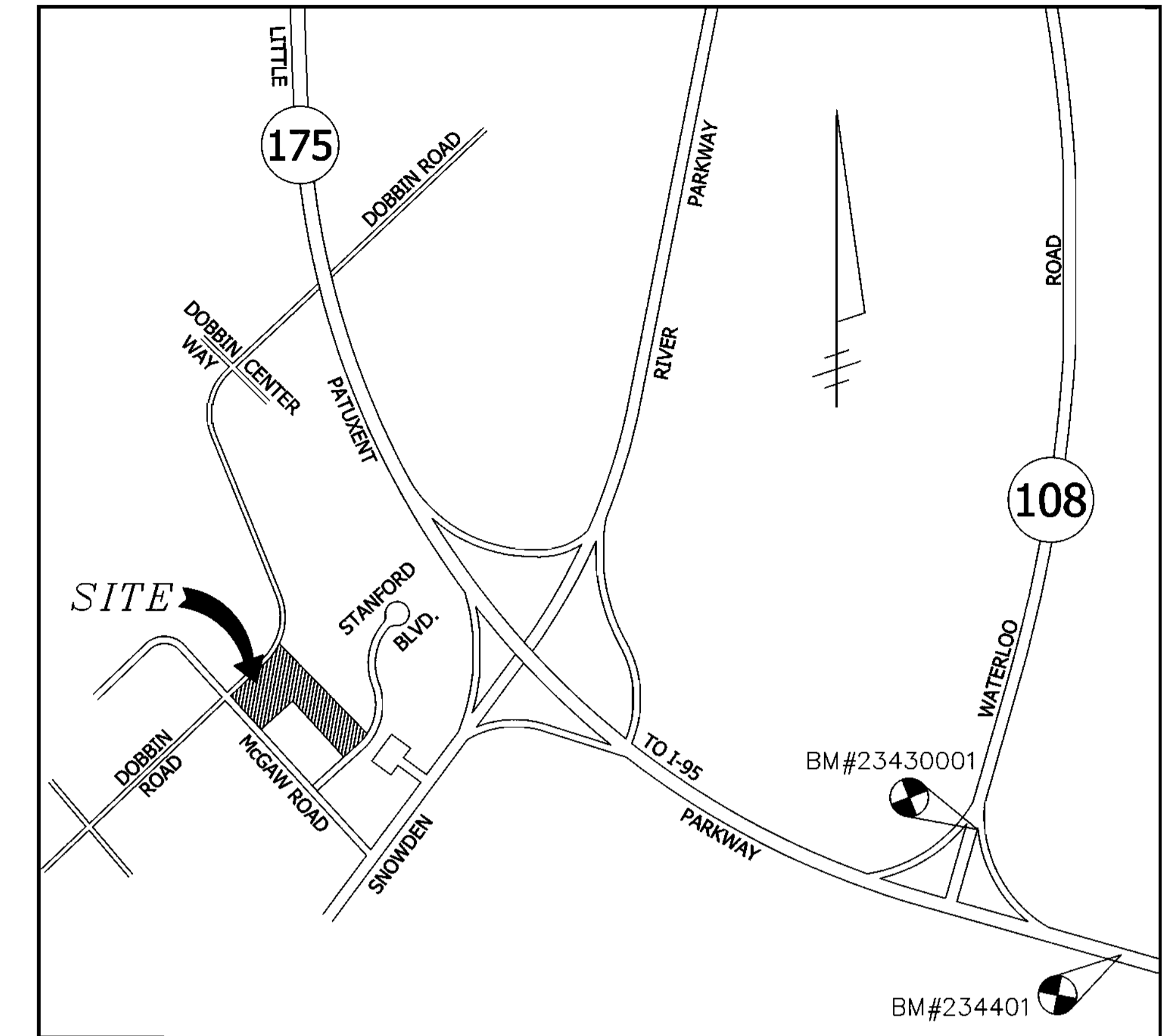
SCALE: 1"= 400'

WATER AND SEWER CONSTRUCTION PLANS
COLUMBIA CORPORATE PARK
 PARCEL A-31 AND A-32

6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 CONTRACT NO.

INDEX OF SHEETS

SHEET NO.	TITLES
1	COVER SHEET, GENERAL NOTES, LOCATION MAP
2	PLAN VIEW
3	PROFILES
4	PROFILES



LOCATION MAP

SCALE: 1"= 1000'

BENCHMARK:

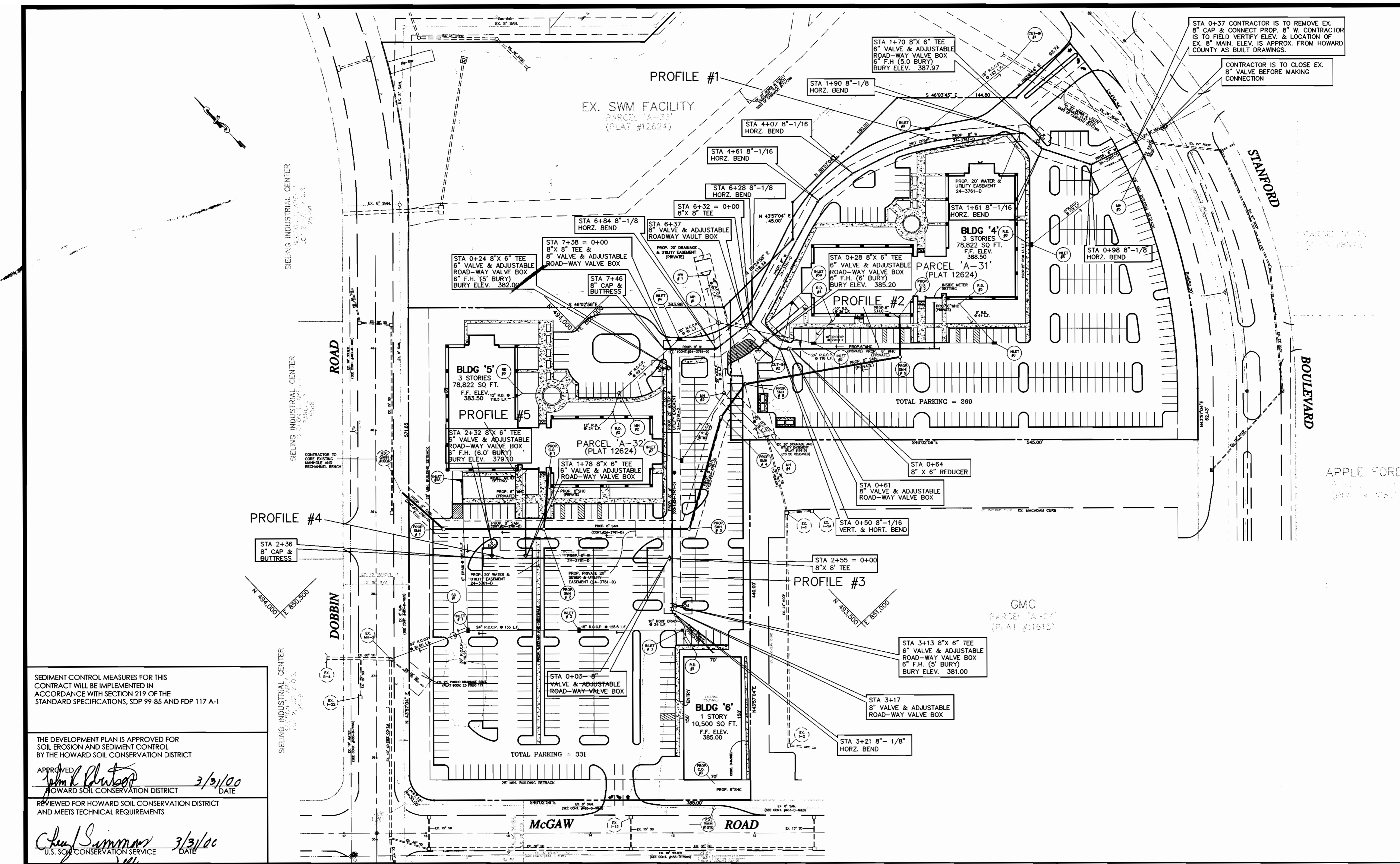
BM #234401 ELEVATION : 309.49' STANDARD CONCRETE MONUMENT SET FLUSH SURFACE
 N 491333.018, E 8582206.723
 BM #23430001 ELEVATION : 288.24' 3/4" REBAR SET 0.3" BELOW THE SURFACE
 N 492140.801, E 857226.671

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" SANITARY	532 L.F.			
SANITARY MANHOLES (G 5.11)	3			
SANITARY MANHOLE (S 1.32)	1			
6" DIP WATER MAIN	79 L.F.			
8" DIP WATER MAIN	1,315 L.F.			
12" X 6" FHT	5			
FIRE HYDRANT	5			
6" VALVES	6			
8" VALVES	4			
8" X 6" TEE	5			
8" X 8" TEE	3			
8" - 1/16 BENDS	5			
8" - 1/8 BENDS	4			
8" X 6" REDUCER	1			
8" CAP AND BUTTRESS	2			

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

BY	NO.	REVISIONS	DATE
BL	1	REDUCED THE MAIN DRIVE FROM 30' TO 26' & REMOVE THE RETAINING WALL. ADDED LOADING DOCKS TO BLDG. #4 & #5. SHIFTED SAN LINE FROM MH#3 TO CO#2. REVISED THE PARKING SIDEWALK AND CURB FOR PLAZA AREAS FOR BLDG. #4 & #5.	1/4/2000
BL	2	REVISED LINE TYPES FOR VARIOUS UTILITY LINES, IN PLAN AND PROFILE VIEW. MINOR CHANGES IN THE PROPOSED WATER MAIN DETAILS. ADDED SANITARY SEWER PROFILE FROM SMH-2 TO CO-1.	3/30/2000



SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-85 AND FDP 117 A-1

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

APPROVED: *John K. Plutko* 3/31/00
 HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Cheryl Summers 3/31/00
 U.S. SOIL CONSERVATION SERVICE DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MD

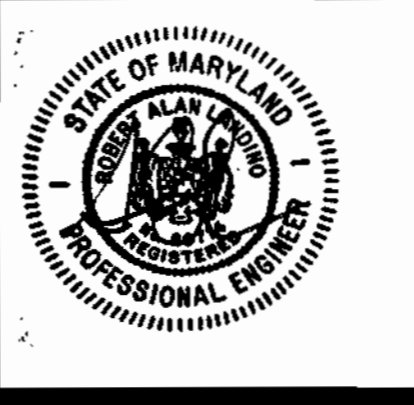
R. J. ... 3-31-00
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MD

...
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Barakos-Landino Design Group
 ENGINEERS / PLANNERS / SURVEYORS / LANDSCAPE ARCHITECTS

849 INTERNATIONAL DR.
 LINTICUM, MD 21090
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DESIGNED : M.A.D.
 DRAWN : J.E.T.
 CHECKED : R.A.M.

PLAN VIEW

CONTRACT NO. 24-3761-D
 600 SCALE MAP NO. 36

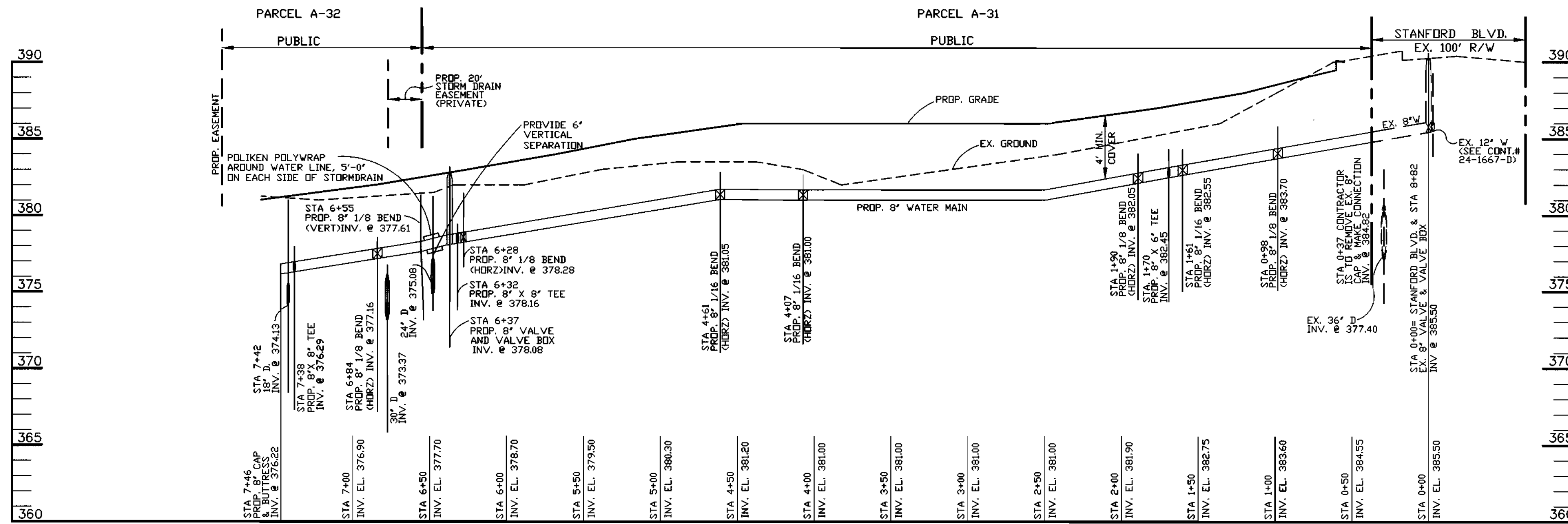
BLOCK NO. 23 & 24

PUBLIC WATER AND SEWER MAIN
COLUMBIA CORPORATE PARK

PARCEL A-31 AND A-32
 CONTRACT NO. 24-3761-D

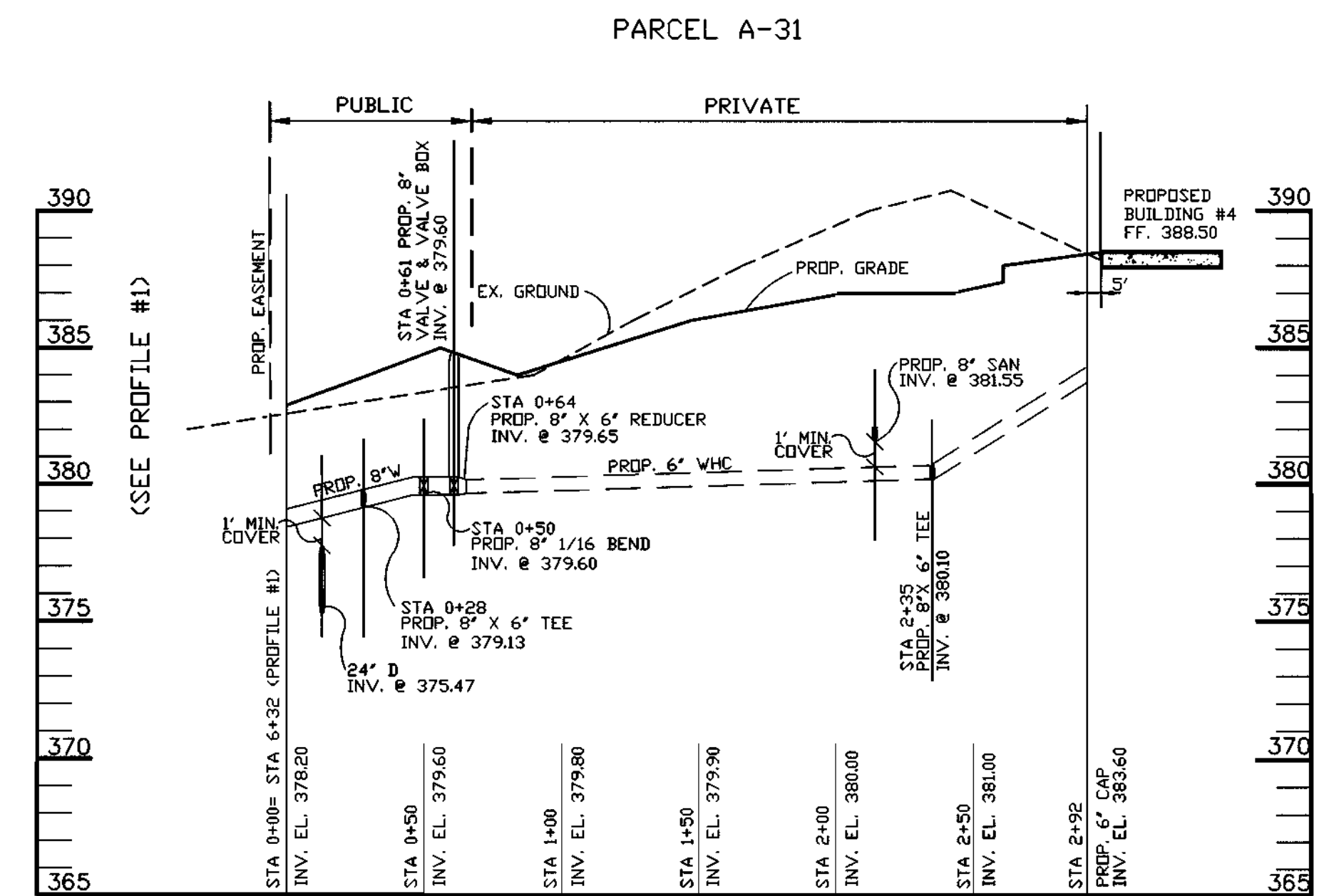
HOWARD COUNTY, MARYLAND ELECTION DISTRICT #6

FEBRUARY 23, 1999
 SHEET 2 OF 4



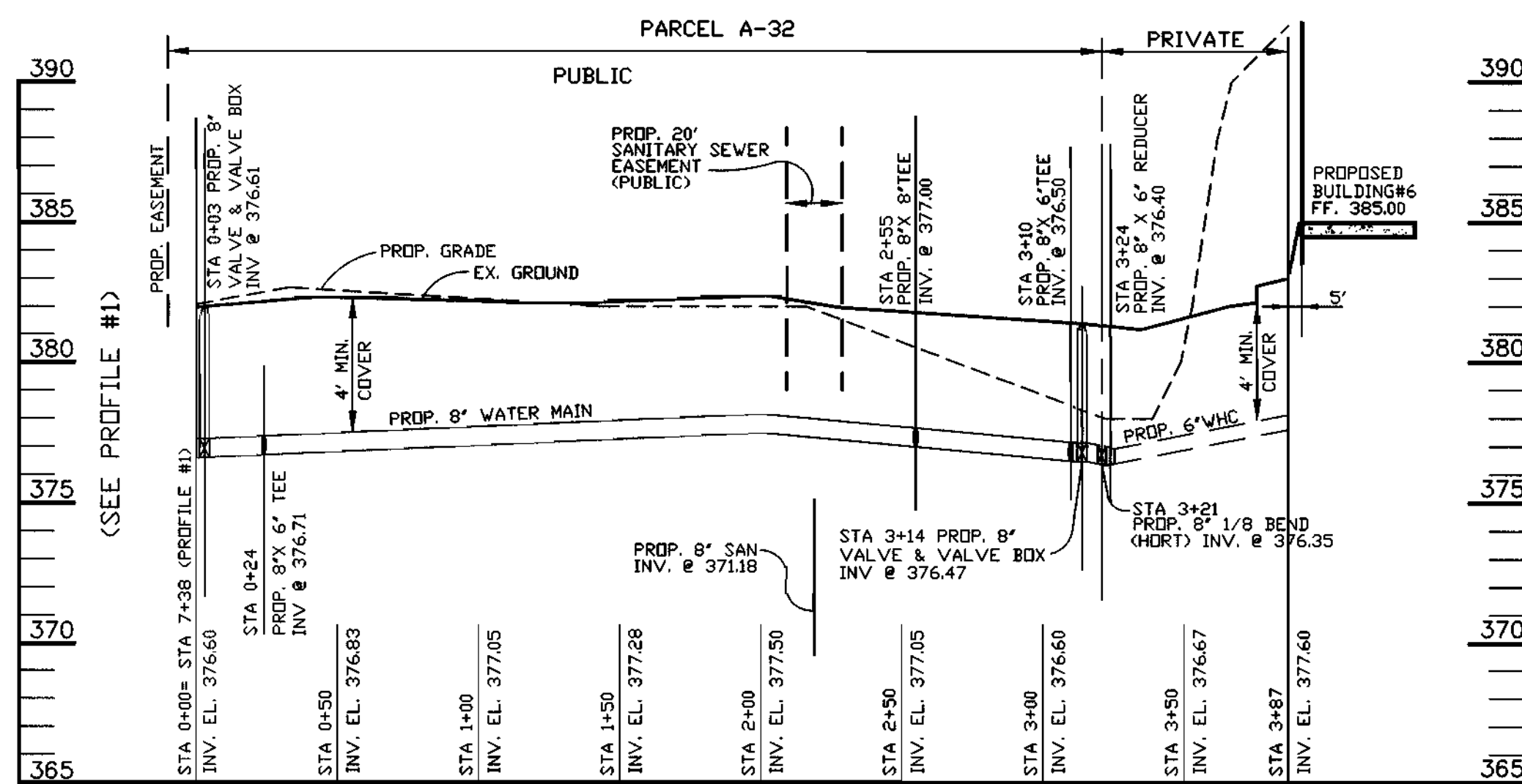
PROP. WATER MAIN PROFILE #1

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



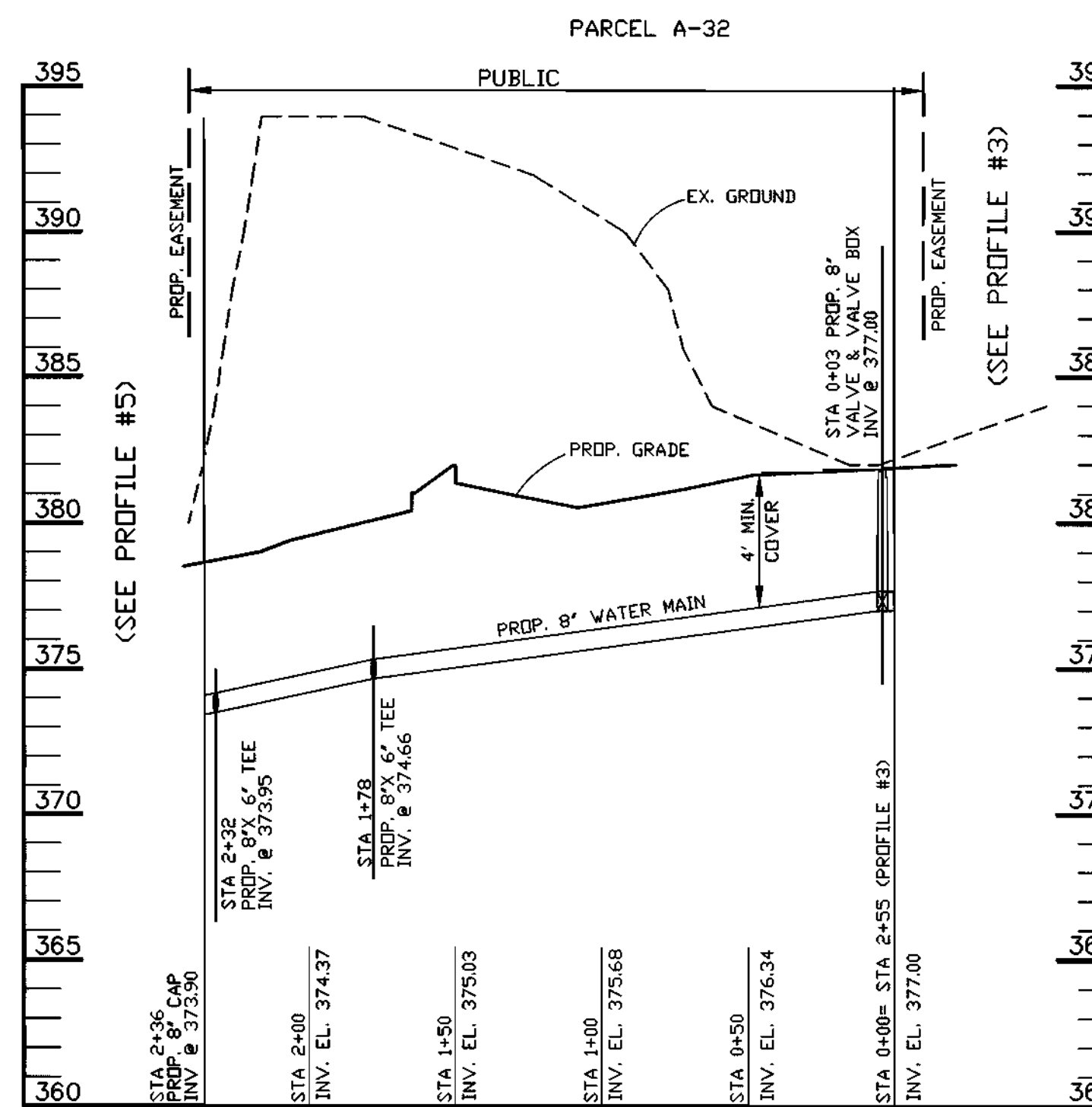
PROP. WATERMAIN PROFILE #2

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



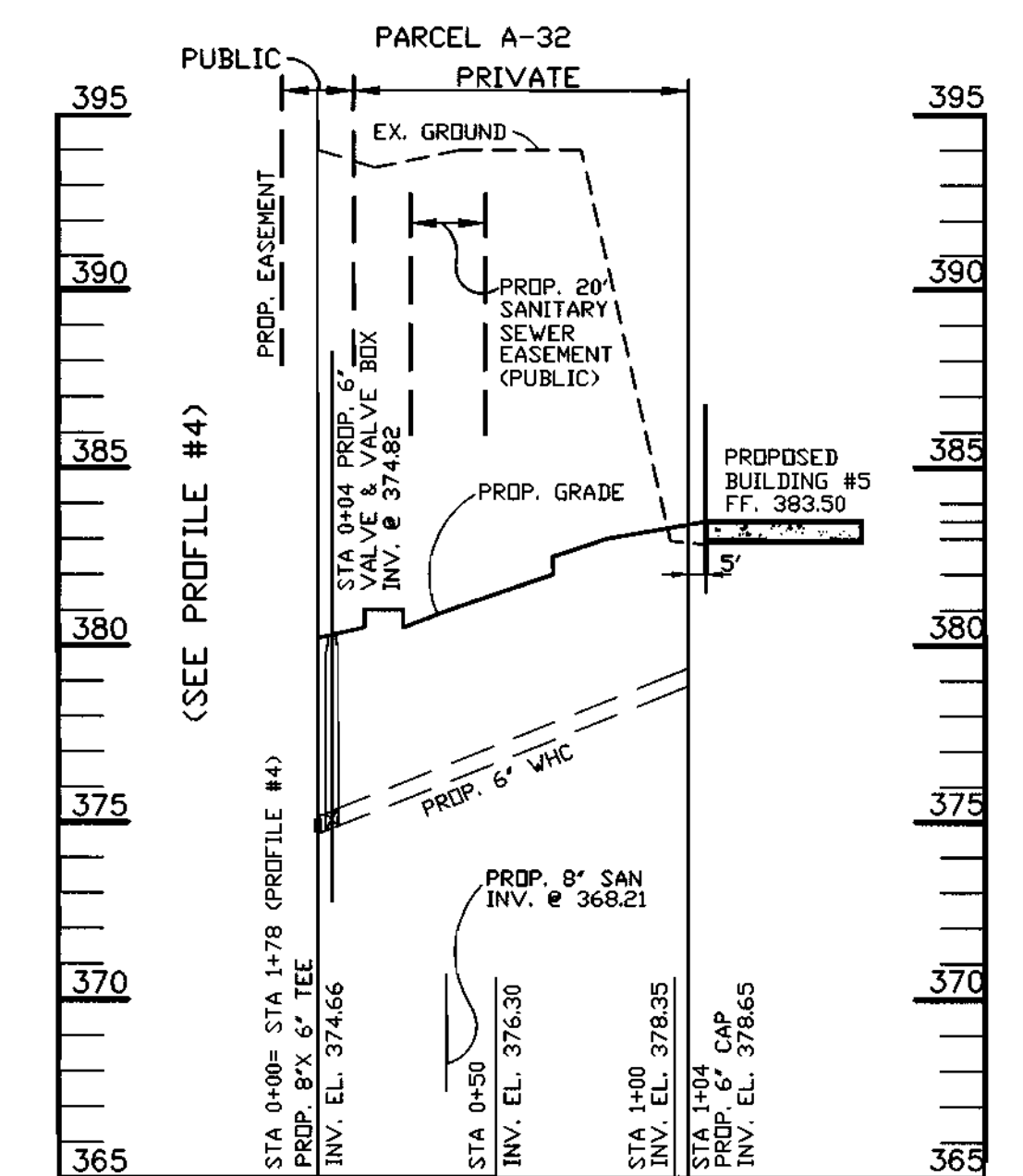
PROP. WATER MAIN PROFILE #3

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



PROP. WATER MAIN PROFILE #4

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



PROP. WATER MAIN PROFILE #5

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

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

APPROVED: *John L. Roberts* 3/31/00
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

APPROVED: *John L. Roberts* Chief Simmons 3/31/00
U.S. SOIL CONSERVATION SERVICE DATE

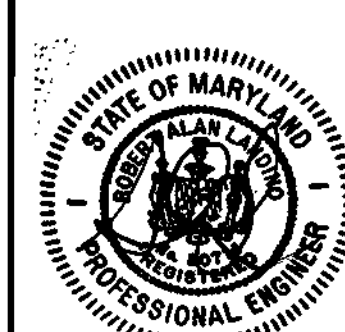
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MD

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MD



Barakos-Landino Design Group
ENGINEERS / PLANNERS / SURVEYORS / LANDSCAPE ARCHITECTS

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CHECKED : R.A.M.

PROFILES

CONTRACT NO. 24-3761-D
600 SCALE MAP NO. 36

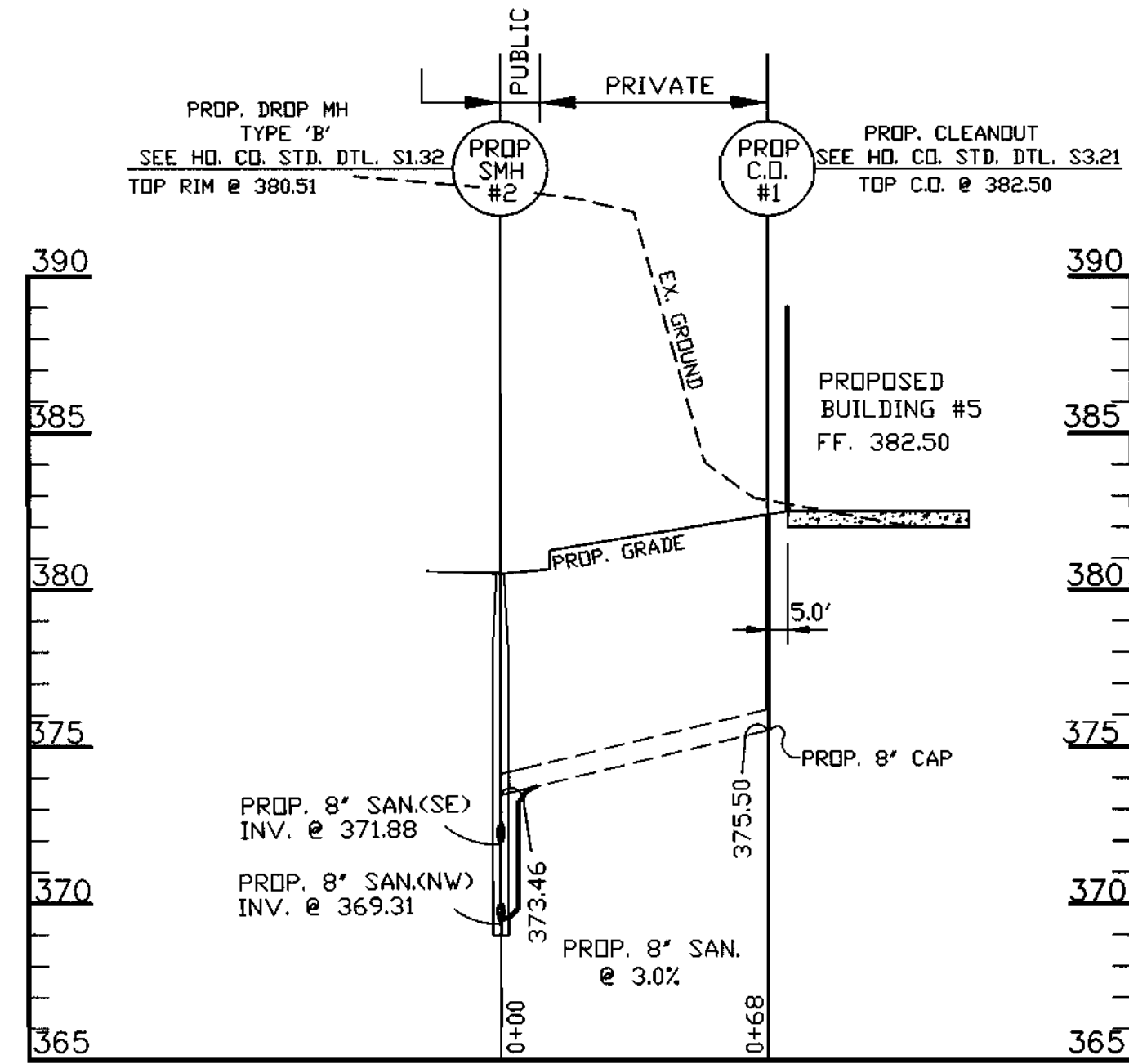
BLOCK NO. 23 & 24

**PUBLIC WATER AND SEWER MAIN
COLUMBIA CORPORATE PARK**

PARCEL A-31 AND A-32

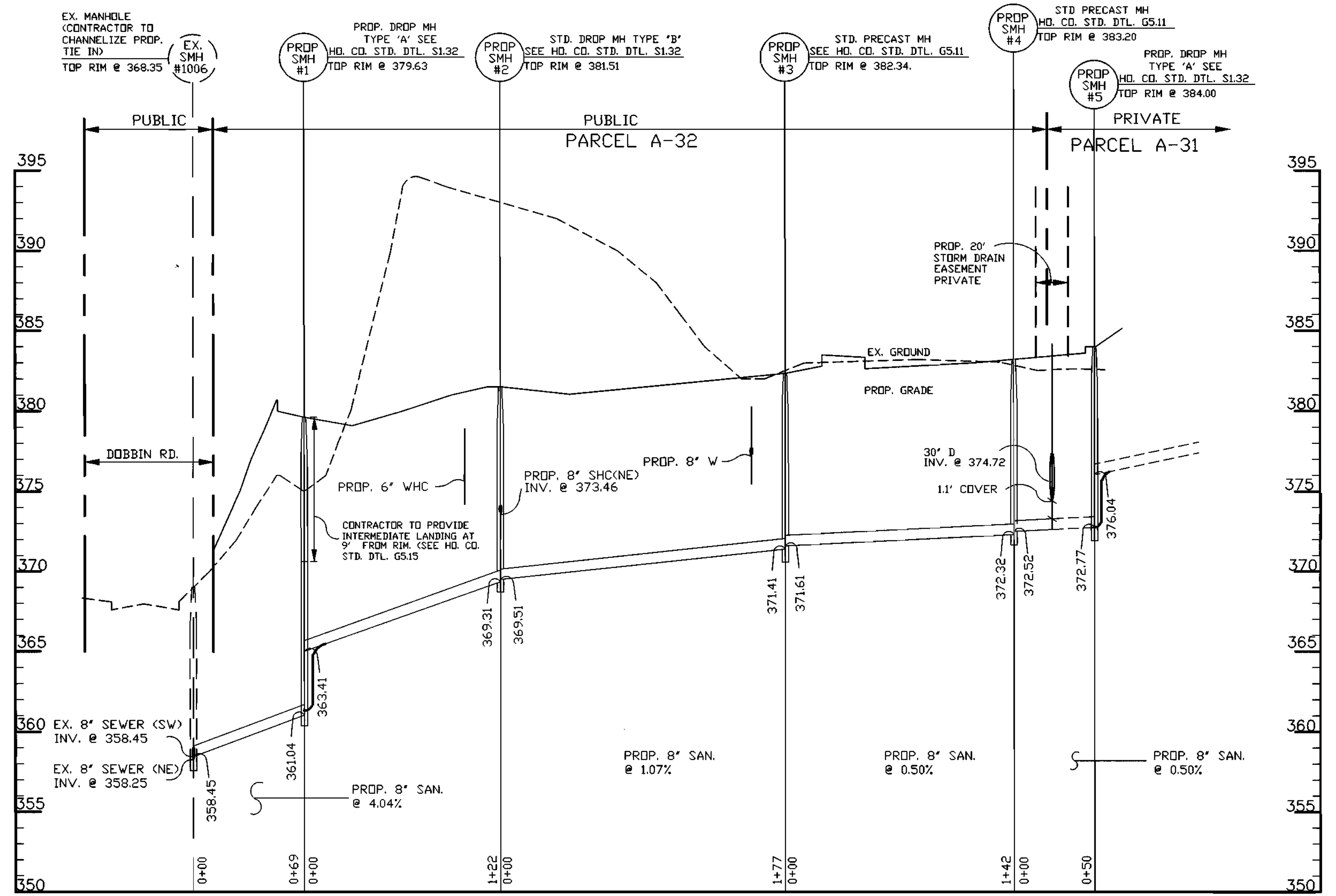
HOWARD COUNTY, MARYLAND ELECTION DISTRICT #6 CONTRACT NO. 24-3761-D

FEBRUARY 23, 1999 SHEET 3 OF 4



SANITARY SEWER PROFILE

SCALE: HORZ. 1"=40'
VERT. 1"=5'



SANITARY SEWER PROFILE

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

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 97-65 AND FDP 117 A-1

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

APPROVED: *John P. [Signature]* 3/3/00
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

APPROVED: *Cheryl Simmons* 3/3/00
U.S. SOIL CONSERVATION SERVICE DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MD

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MD



Barakos-Landino Design Group
ENGINEERS / PLANNERS /
SURVEYORS / LANDSCAPE ARCHITECTS
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(410) 859-9958 Fax



DESIGNED : M.A.D.
DRAWN : J.E.T.
CHECKED : R.A.M.

PROFILES

CONTRACT NO. 24-3761-D
600 SCALE MAP NO. 36

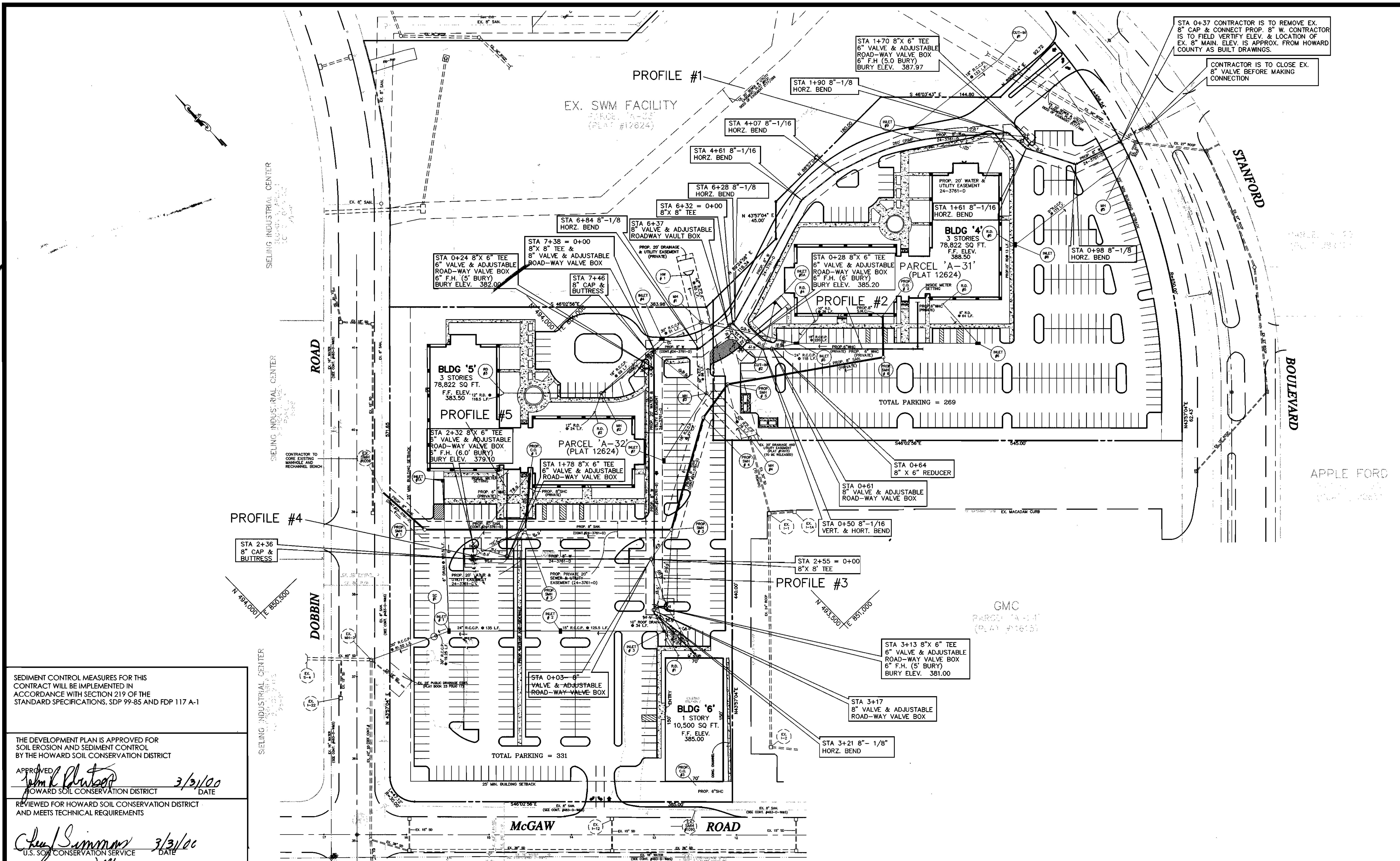
BLOCK NO. 23 & 24

**PUBLIC WATER AND SEWER MAIN
COLUMBIA CORPORATE PARK**

PARCEL A-31 AND A-32

HOWARD COUNTY, MARYLAND
ELECTION DISTRICT #6
CONTRACT NO. 24-3761-D

FEBRUARY 23, 1999
SHEET 4 OF 4



STA 0+37 CONTRACTOR IS TO REMOVE EX. 8" CAP & CONNECT PROP. 8" W. CONTRACTOR IS TO FIELD VERIFY ELEV. & LOCATION OF EX. 8" MAIN. ELEV. IS APPROX. FROM HOWARD COUNTY AS BUILT DRAWINGS.

CONTRACTOR IS TO CLOSE EX. 8" VALVE BEFORE MAKING CONNECTION

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

APPROVED: *John K. Chute* 3/31/00
 HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Reviewed: *Cheryl Simmons* 3/31/00
 U.S. SOIL CONSERVATION SERVICE DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MD

Robert M. Berman 3-31-00
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MD

John
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Barakos-Landino Design Group
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849 INTERNATIONAL DR.
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 (410) 859-9100
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DESIGNED : M.A.D.
 DRAWN : J.E.T.
 CHECKED : R.A.M.

STATE OF MARYLAND
 PROFESSIONAL ENGINEER

PLAN VIEW

CONTRACT NO. 24-3761-D AS-BUILD CONDITIONS ADDED TO PLAN 07/31/00
 600 SCALE MAP NO. 36 BLOCK NO. 23 & 24

PUBLIC WATER AND SEWER MAIN
COLUMBIA CORPORATE PARK
 PARCEL A-31 AND A-32

HOWARD COUNTY, MARYLAND ELECTION DISTRICT #6 CONTRACT NO. 24-3761-D

FEBRUARY 23, 1999 SHEET 2 OF 4

GENERAL NOTES

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 COLONIAL PIPELINE CO.....795-1390
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THESE REVISED WATER AND SEWER CONSTRUCTION PLANS SUPERSEDE THE CONSTRUCTION PLANS APPROVED AND SIGNED BY THE CHIEF OF DEVELOPMENT ENGINEERING DIVISION ON 5/21/99.

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

APPROVED: *John K. Roberts* 3/31/00
 HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS
Cheryl Simmons 3/31/00
 U.S. SOIL CONSERVATION SERVICE DATE

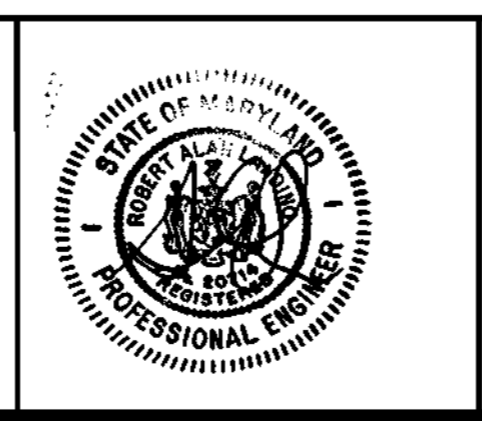
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MD

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MD

Robert M. Beaman 3-31-00
 CHIEF, BUREAU OF UTILITIES DATE

[Signature] _____ DATE
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

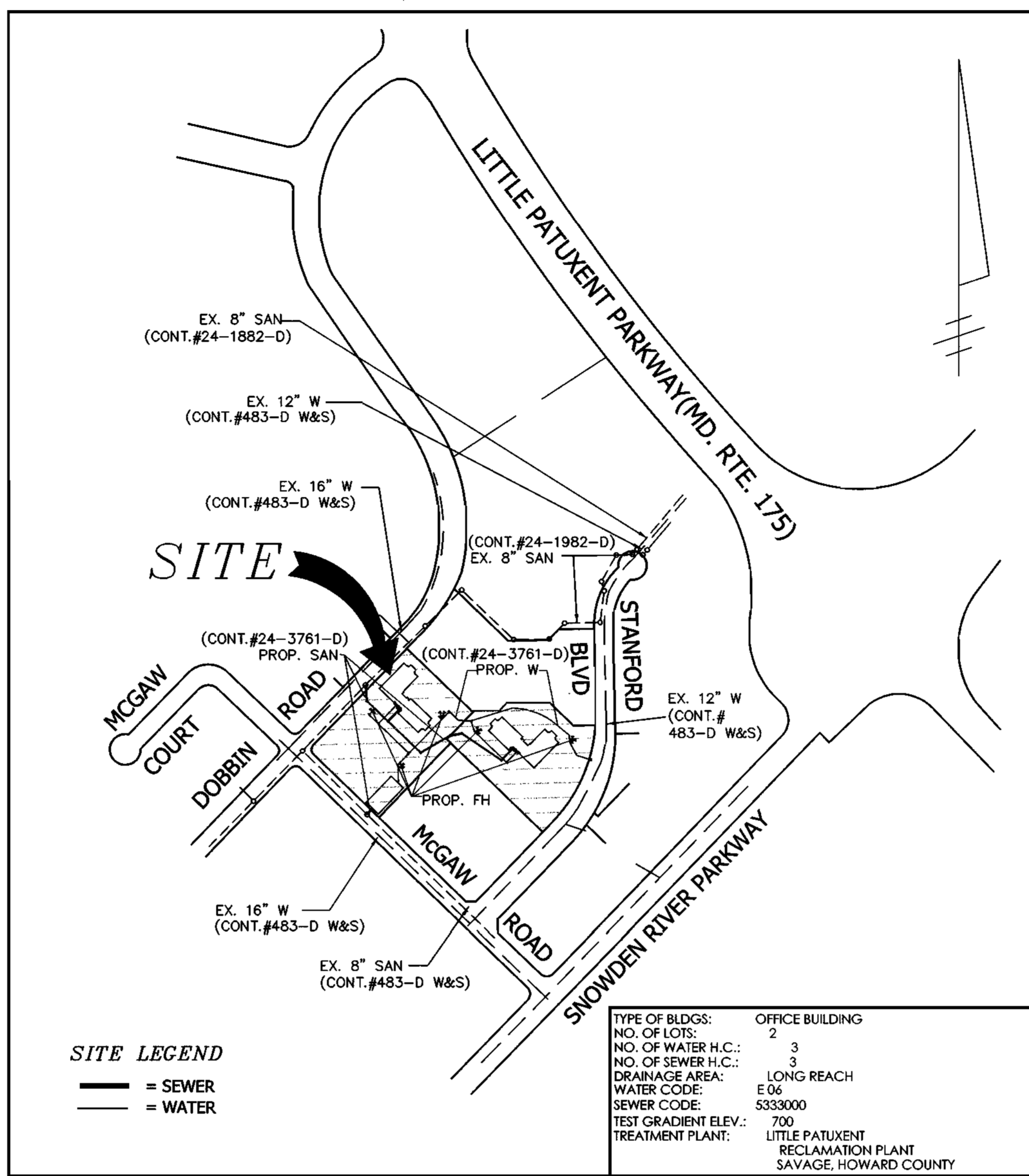
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DESIGNED : M.A.D.
 DRAWN : J.E.T.
 CHECKED : R.A.M.

COVER SHEET
 GENERAL NOTES AND LOCATION MAP
 CONTRACT NO. 24-3761-D A.S.-BUILT CONDITIONS ADDED TO PLAN 7/31/00
 600 SCALE MAP NO. 36 BLOCK NO. 23 & 24

PUBLIC WATER AND SEWER MAIN
COLUMBIA CORPORATE PARK
 PARCEL A-31 AND A-32
 HOWARD COUNTY, MARYLAND ELECTION DISTRICT #6
CONTRACT NO. 24-3761-D
 FEBRUARY 23, 1999 SHEET 1 OF 4



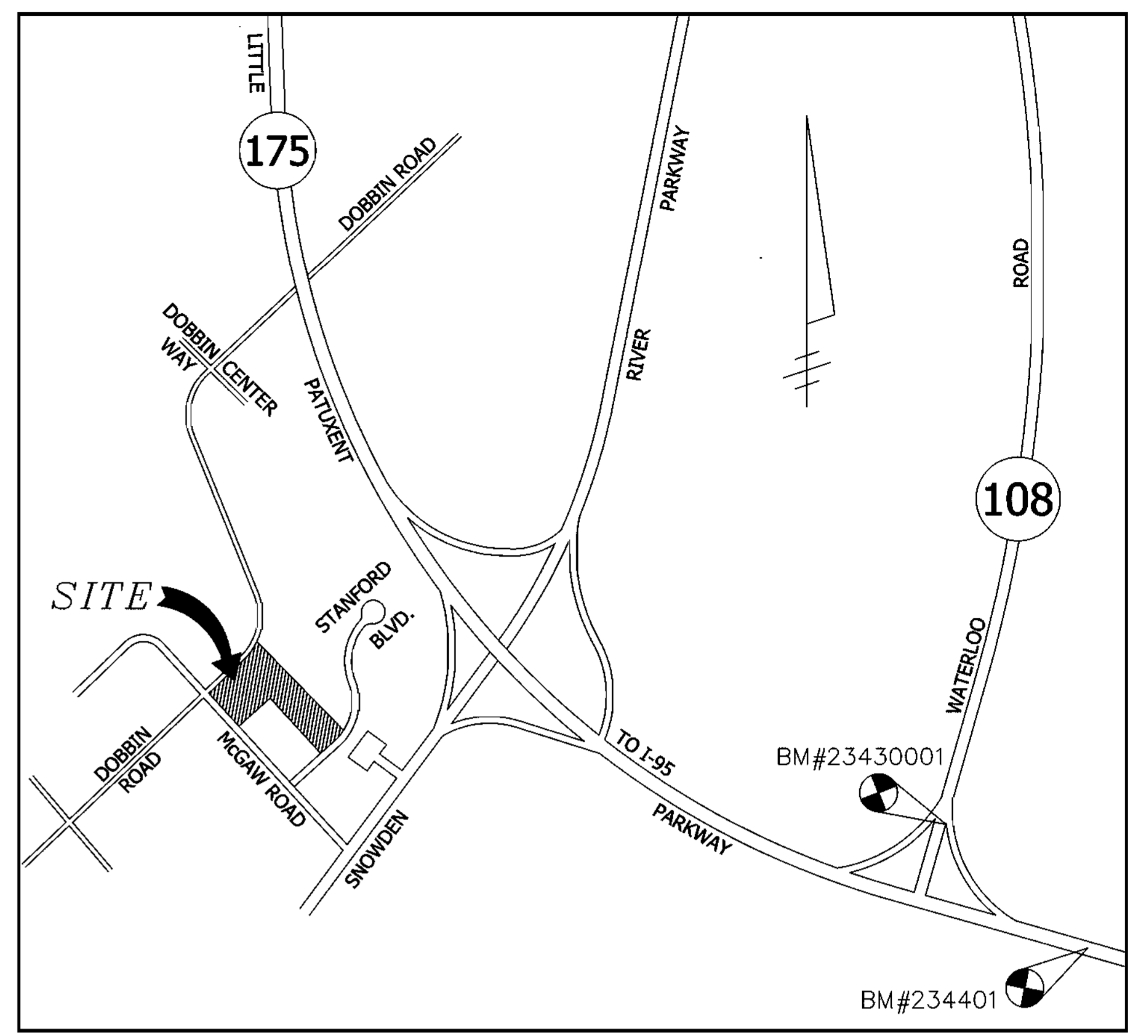
VICINITY MAP
 SCALE: 1"= 400'

WATER AND SEWER CONSTRUCTION PLANS
COLUMBIA CORPORATE PARK
 PARCEL A-31 AND A-32

6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 CONTRACT NO.

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LOCATION MAP
 SCALE: 1"= 1000'

BENCHMARK:
 BM #234401 ELEVATION :309.49' STANDARD CONCRETE MONUMENT SET FLUSH SURFACE
 N 491333.018, E 8582206.723
 BM #23430001 ELEVATION : 288.24' 3/4" REBAR SET 0.3' BELOW THE SURFACE
 N 492140.801, E 857226.671

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" SANITARY	532 L.F.		S.D.R. - 35	J.M. MRG / BR5
SANITARY MANHOLES (G 5.11)	3	3	CONCRETE	
SANITARY MANHOLE (S 1.32)	1	1	CONCRETE	
6" DIP WATER MAIN	79 L.F.	79	CL-52	U.S. PIPE / BR5
8" DIP WATER MAIN	1,315 L.F.	1,424	CL-52	U.S. PIPE / BR5
12" X 6" FHT	5	5	CL-52	U.S. PIPE / BELAIR SUP.
FIRE HYDRANT	5	5	CENTURION	MUELLER CO / BR-5
6" VALVES	6	6	O.L. GATE VALVE	MULLER CO / BR-5
8" VALVES	4	4	O.L. GATE VALVE	MULLER CO / BR-5
8" X 6" TEE	1	1	M.J. HYD TEE	U.S. PIPE & FOUNDRY / BR5
8" X 8" TEE	3	3	M.-J. TEE	U.S. PIPE / BR5
8" - 1/16 BENDS	5	5	M.-J. COMPACT	U.S. PIPE / BR5
8" - 1/8 BENDS	4	4	M.-J. COMPACT	U.S. PIPE / BR5
8" X 6" REDUCER	1	1	M.-J. COMPACT	U.S. PIPE / BR5
8" CAP AND BUTTRESS	2	2	M.-J. CAP	U.S. PIPE / BR5

NAME OF UTILITY CONTRACTOR : C.G.T. INC.
 SURVEY AND DRAFTING DIVISION AS - BUILT DATE : JULY 31, 2000

BY	NO.	REVISIONS	DATE
BL	1	REDUCED THE MAIN DRIVE FROM 30' TO 26' & REMOVE THE RETAINING WALL. ADDED LOADING DOCKS TO BLDG. #4 & #5. SHIFTED SAN LINE FROM MH#3 TO CO#2. REVISED THE PARKING SIDEWALK AND CURB FOR PLAZA AREAS FOR BLDG. #4 & #5.	1/4/2000
BL	2	REVISED LINE TYPES FOR VARIOUS UTILITY LINES. IN PLAN AND PROFILE VIEW. MINOR CHANGES IN THE PROPOSED WATER MAIN DETAILS. ADDED SANITARY SEWER PROFILE FROM SMH-2 TO CO-1.	3/30/2000