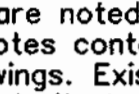
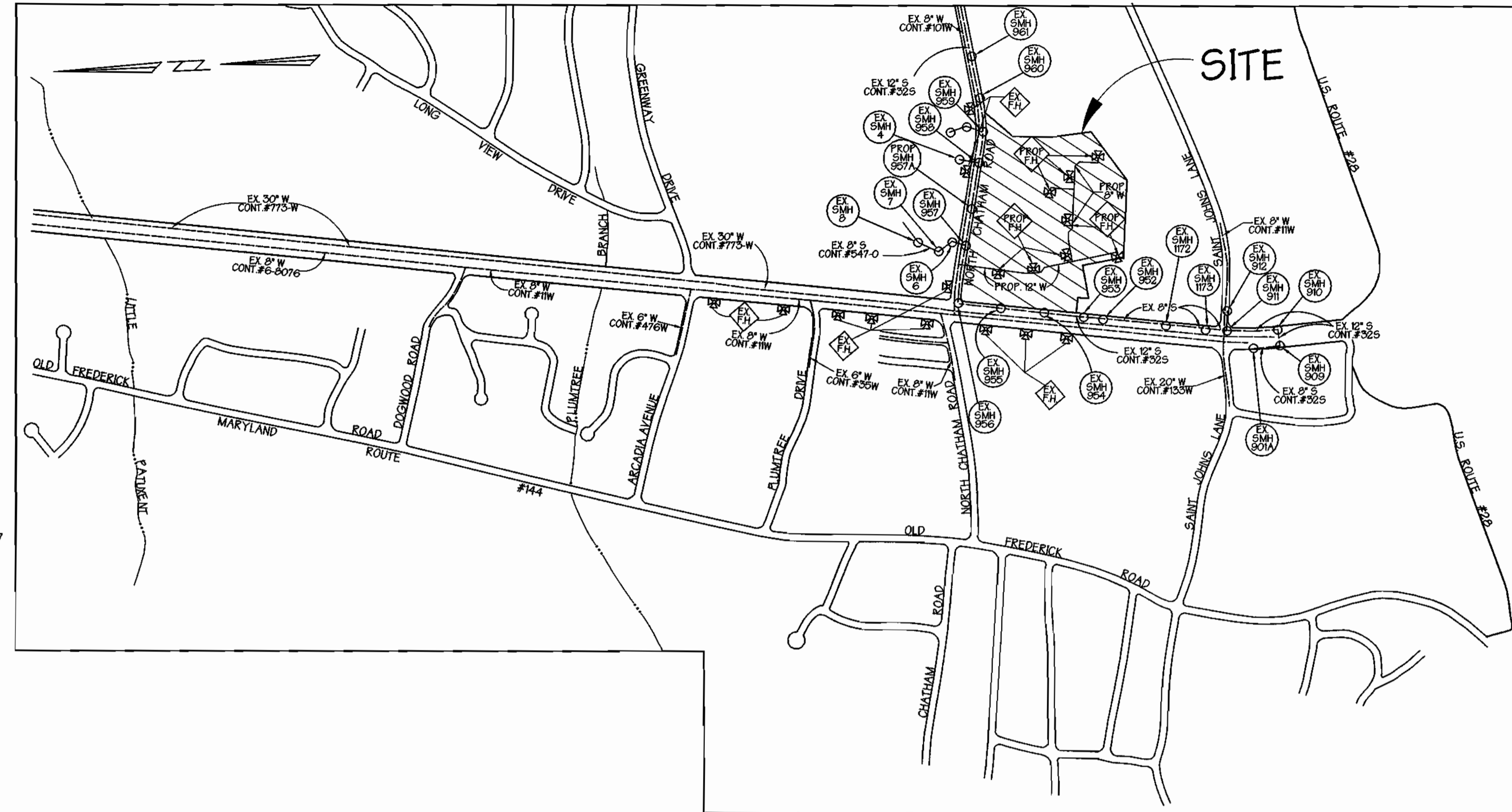


GENERAL NOTES

- 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 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
Baltimore Gas & Electric Co. Contractor Services	850-4620
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Miss Utility	1-800-257-7777
Colonial Pipeline Co.	795-1390
Bureau of Utilities, Howard County Department of Public Works	313-4900
- The 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 tees shall be strapped to tees.
- 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 set 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 sewer mains shall be D.I.P. or P.V.C., unless otherwise noted.
- All manholes shall be 4'-0" inside diameter unless otherwise noted.
- Manholes to be precast concrete structure.
- Manholes shown with 12" and 16" area are for brick manholes only.



LOCATION MAP
SCALE: 1" = 600'

TYPE OF BLDGS : SHOPPING CENTER
 NO. OF LOTS : 1
 NO. OF WATER H.C. : 6
 NO. OF SEWER H.C. : 0
 DRAINAGE AREA : LITTLE PATUXENT
 WATER CODE : F06
 SEWER CODE : 1404100, 1403700
 TEST GRADIENT ELEV. : 700
 TREATMENT PLANT : LITTLE PATUXENT WATER RECLAMATION PLANT SAVAGE, HOWARD COUNTY

BENCH MARK ELEV. 117.4098
 N178814.6906
 E 414293.0309
 DESCRIPTION
 CONC. MONUMENT 18' SOUTH OF SOUTH EDGE OF ROUTE 40 EAST (TRAFFIC LANE) 150' EAST END OF SUNOCO STATION OPPOSITE DOCTOR'S BUILDING 150' BELOW THE SURFACE.

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/ SUPPLIER
12" DP Water Main	1,163 L.F.			
8" DP Water Main	1,040 L.F.			
6" DP Water Main	173 L.F.			
4" D.I.P. Water Main	60 L.F.			
2" D.I.P. Water Main	25 L.F.			
1" D.I.P. Water Main	62 L.F.			
Fire Hydrants	8 Each			
12"X8" TEE	2 Each			
12"X6" TEE	2 Each			
12"X4" TEE	1 Each			
8"X8" TEE	1 Each			
8"X6" TEE	5 Each			
12" VALVE AND ROADWAY BOX	1 Each			
8" VALVE AND ROADWAY BOX	5 Each			
6" VALVE AND ROADWAY BOX	8 Each			
4" VALVE AND ROADWAY BOX	1 Each			
8" x 12" Increaser	1 Each			
8" x 8" Tapping Sleeve	1 Each			
1" Meter & Vault (Ho.Co. Std. Dtl. W3.33)	1 Each			
2" Meter & Vault (Ho.Co. Std. Dtl. W3.34)	1 Each			
3" Meter & Vault (Ho.Co. Std. Dtl. W3.35)	1 Each			
8" Meter & Vault (Ho.Co. Std. Dtl. W3.43)	2 Each			
Sanitary Manhole (Drop Manhole Type 'B')	1 Each			
8" P.V.C. Sanitary Sewer	10 L.F.			

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

WATER & SEWER CONSTRUCTION PLANS CHATHAM MALL PARCEL 'A'

2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-3783-D

INDEX OF SHEETS

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

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED : *John R. Reuter* 6/18/99
 HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Cheryl Simmons 6/18/99
 U.S. SOIL CONSERVATION SERVICE DATE

OWNER/DEVELOPER
 CHATHAM MALL COMPANY LLP
 9200 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 465-8435

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
Ruth Beaman 6-9-99
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND
Cheryl Simmons 6/18/99
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

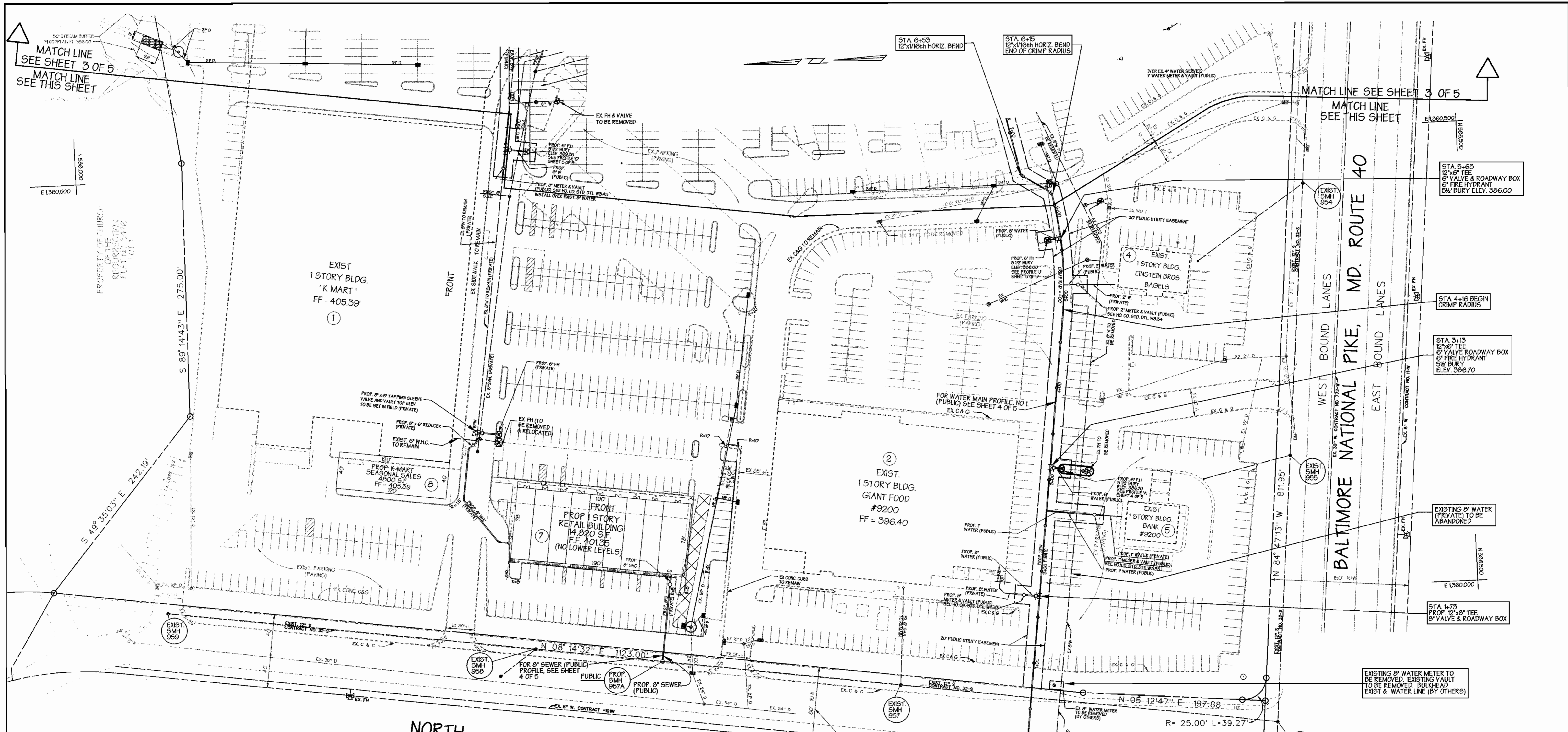
GWS
 GEORGE W. STEPHENS, JR.
 AND ASSOCIATES, INC.
 Civil Engineers and Land Surveyors
 658 Kenilworth Drive, Suite 100
 Towson Maryland 21204
 (410) 825-8120



DESIGNED BY: D.A.G., K.E.
 DRAWN BY: D.A.G., P.T.
 CHECKED BY: V.Z.

**COVER SHEET,
 GENERAL NOTES & LOCATION MAP**
 CONTRACT NO. 14-3783-D
 600 SCALE MAP NO. 24 BLOCK NO. 4&5

**PUBLIC WATER & SEWER MAIN
 CHATHAM MALL PARCEL 'A'**
 CONTRACT NO. 14-3783-D
 ELECTION DISTRICT : 2
 HOWARD CO., MARYLAND
 SHT. 1 OF 5
 SCALE : As Shown
 DATE : MAY 22, 1999



SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED: *John L. Whitson* 6/8/99
 HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Debra Simmons 6/8/99
 U.S. SOIL CONSERVATION SERVICE DATE

PLAN
 SCALE: 1" = 50'

OWNER/DEVELOPER
 CHATHAM MALL COMPANY LLP
 9200 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 465-8435

NORTH CHATHAM ROAD

CHATHAM LIMITED PARTNERSHIP
 DEED LIBER 767 FOLIO 654
 SECTION ONE
 CHATHAM GARDEN APARTMENTS
 PARCEL A-1
 PLAT # 3978

RIGHTS OF HOWARD COUNTY, MARYLAND AS TO UTILITY RIGHTS, SEE AGREEMENT LIBER 429 FOLIO 640

STA. 0+10 8"x12" INCREASER

STA. 0+05 8" VALVE & ROADWAY BOX

STA. 0+00 CONNECT TO EXIST. 8" W. (CONTR. 10W) W/ 8"x8" TAPPING SLEEVE

TURN OFF EXISTING 6" VALVE AND REMOVE EXISTING ROADWAY BOX

SUBDIVISION PLAT OF THE "RAMSBURG PROPERTY" PLAT 10/94 LOT 1 THE FIRST REPUBLIC CORPORATION OF AMERICA DEED LIBER 1576 FOLIO 345

NOTE: ALL EXISTING ON SITE FIRE HYDRANTS TO BE REMOVED. EXISTING 6" VALVES TO BE TURNED OFF. EXISTING ROADWAY BOXES TO BE REMOVED

BY	NO.	REVISION	DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Robert Benner 6-9-99
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

John J. Williams 6/9/99
 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



DESIGNED BY: D.A.G. / K.E.
 DRAWN BY: D.A.G., P.T.
 CHECKED BY: V.Z.

PLAN VIEW

CONTRACT NO. 14-3783-D
 600 SCALE MAP NO. 24
 BLOCK NO. 4&5

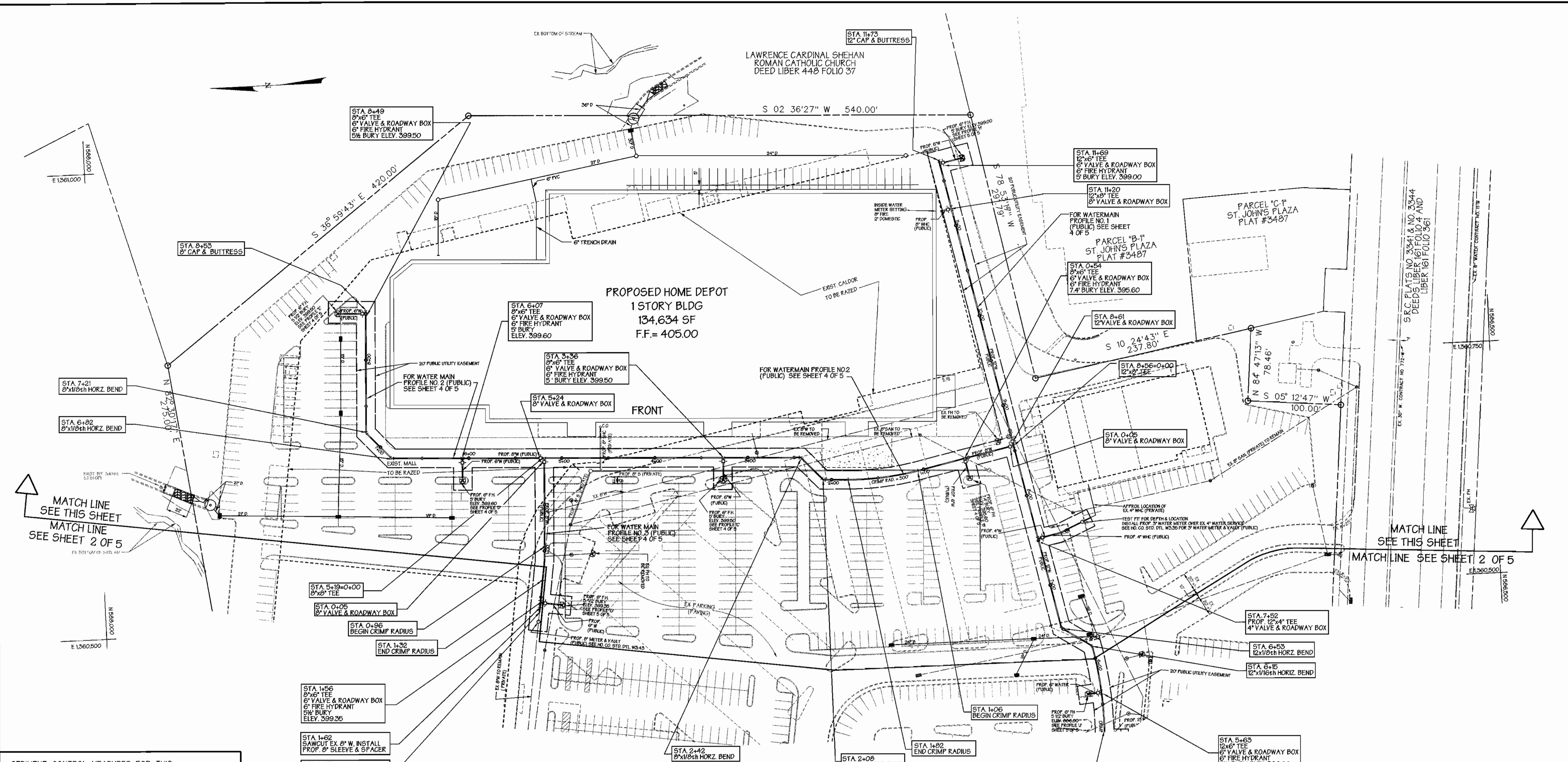
PUBLIC WATER & SEWER PLAN
CHATHAM MALL PARCEL 'A'
 CONTRACT NO. 14-3783-D

ELECTION DISTRICT : 2
 HOWARD CO., MARYLAND

SCALE : As Shown
 DATE : MAY 22, 1999

SHT. 2 OF 5

P/N 8761- publicwater1.s01



PLAN
SCALE: 1"=50'

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED: *John K. Roberts* 6/8/99
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Cheryl Simmons 6/8/99
U.S. SOIL CONSERVATION SERVICE DATE

OWNER/DEVELOPER
CHATHAM MALL COMPANY LLP
9200 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 465-8435

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert W. Beavers 6-9-99
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
Howard W. Simmons 6/9/99
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

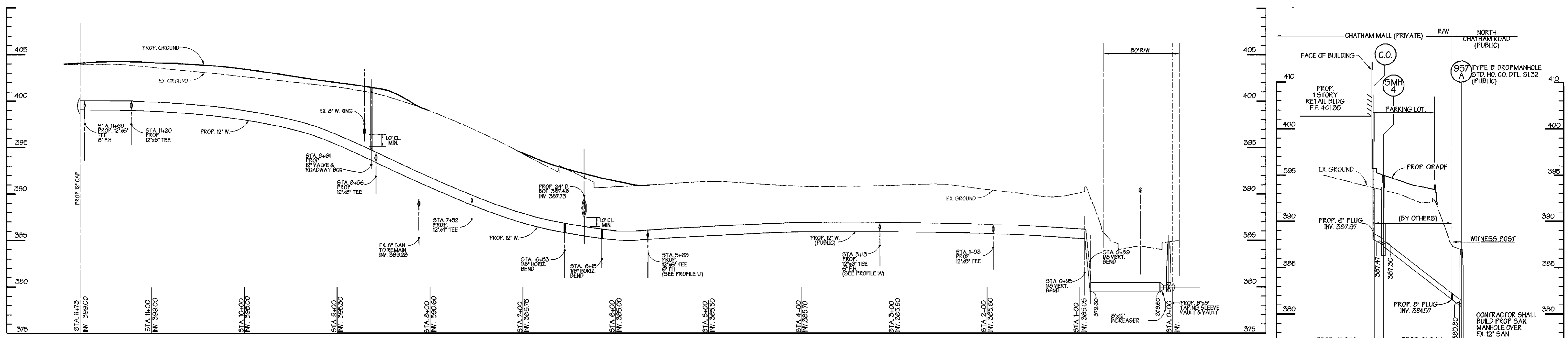


DESIGNED BY: D.A.G./K.E.
DRAWN BY: D.A.G./P.T.
CHECKED BY: V.Z.

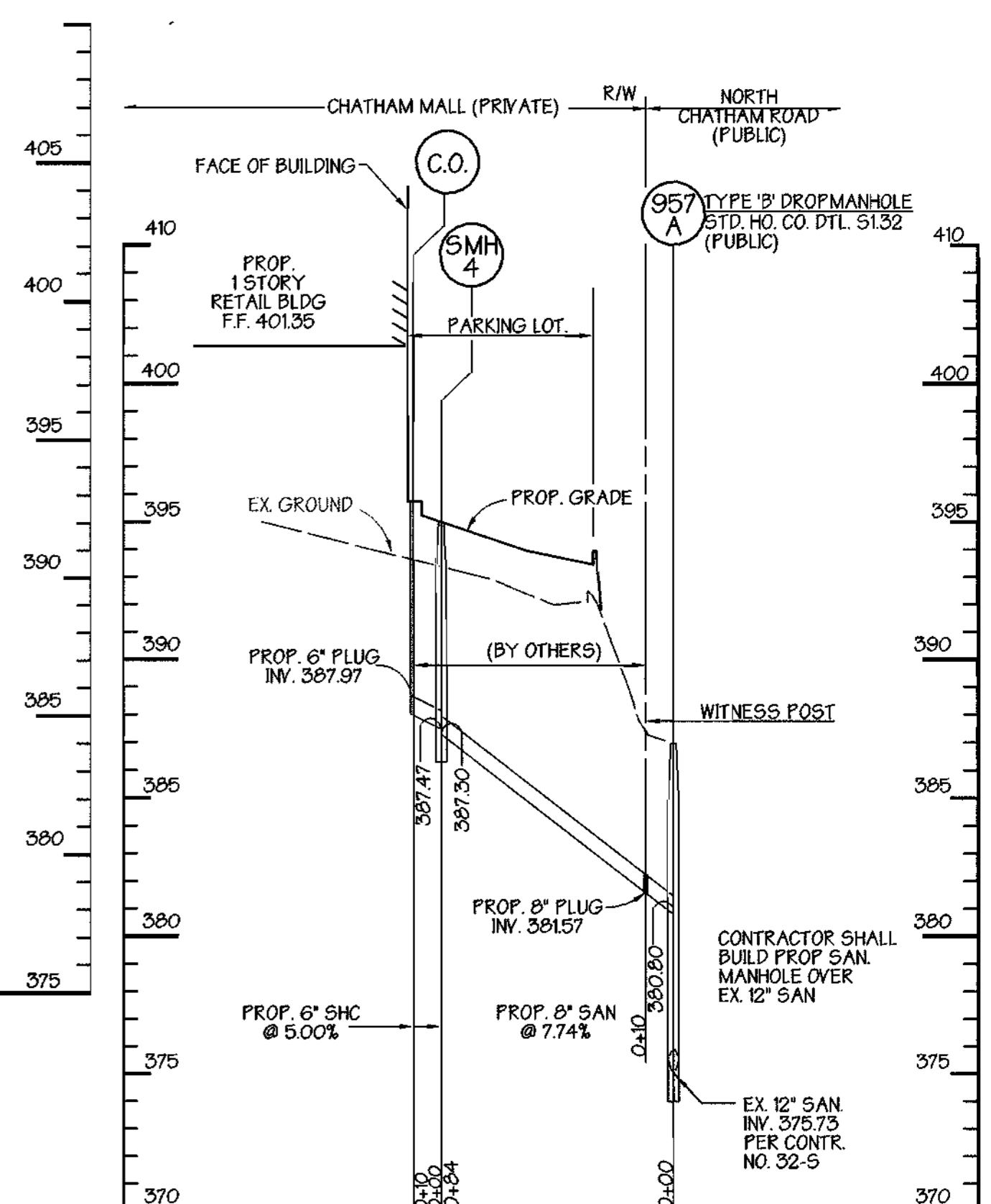
PLAN VIEW
CONTRACT NO. 14-3783-D
600 SCALE MAP NO. 24
BLOCK NO. 4&5

BY	NO.	REVISION	DATE

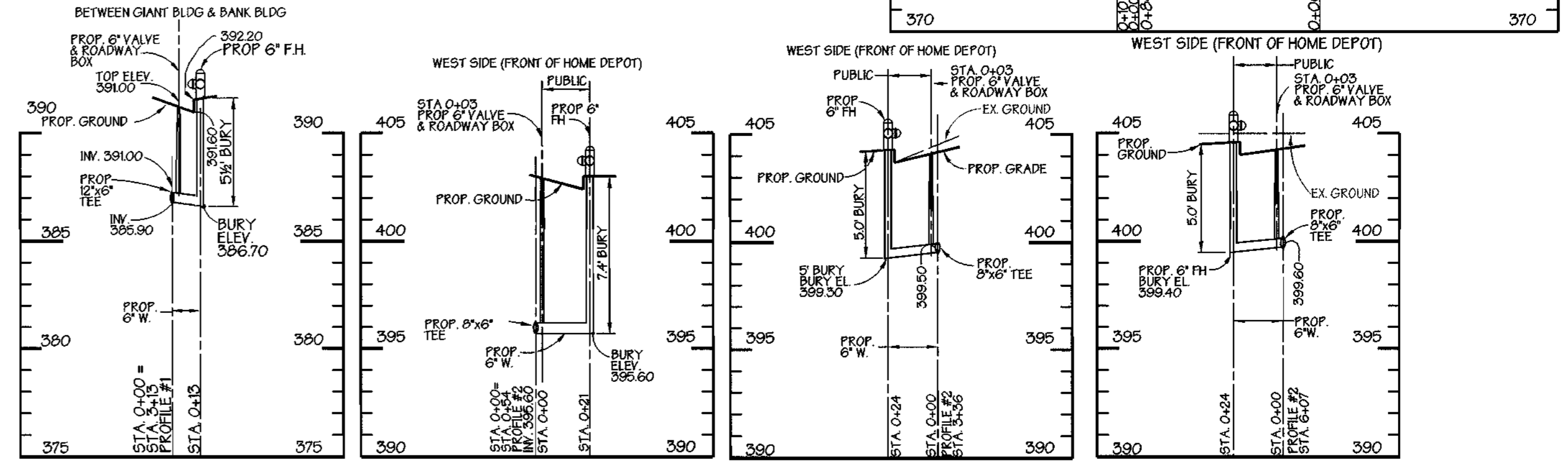
PUBLIC WATER & SEWER PLAN
CHATHAM MALL PARCEL 'A'
CONTRACT NO. 14-3783-D
ELECTION DISTRICT: 2
HOWARD CO., MARYLAND
SCALE: As Shown
DATE: MAY 22, 1999
SHT. 3 OF 5
P/N 8761- publicwater1.s01



WATERMAIN PROFILE #1
SCALE: 1"=50' HORIZ
1"=5' VERT



WATERMAIN PROFILE #2
SCALE: 1"=50' HORIZ
1"=5' VERT

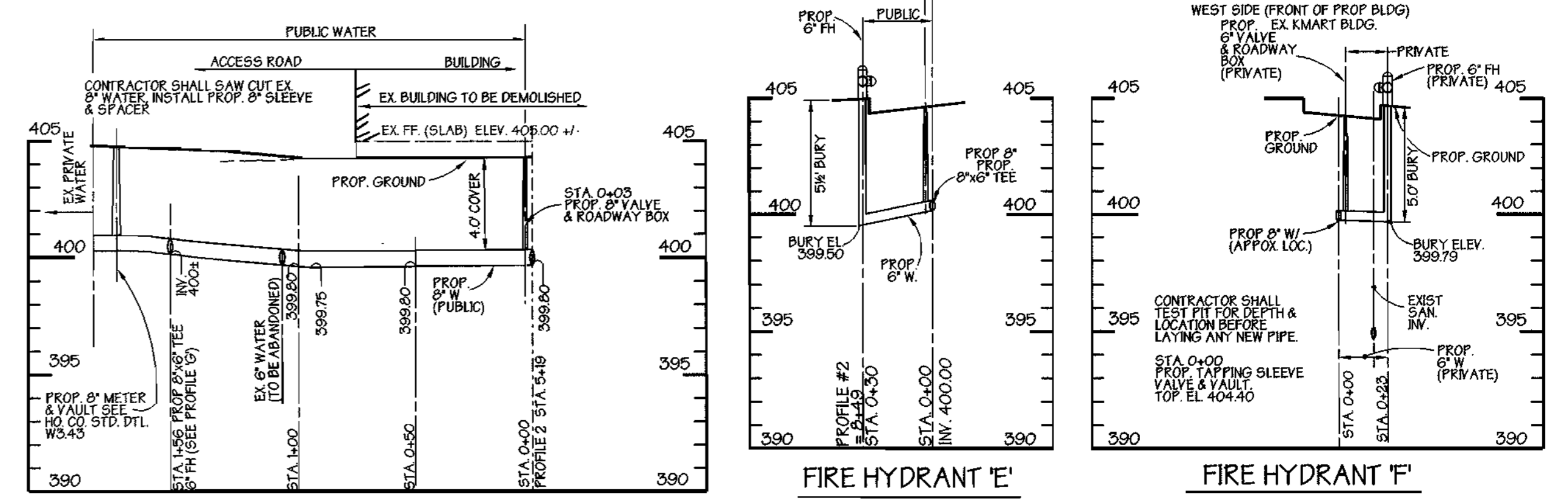


FIRE HYDRANT 'A'
SCALE: 1"=50' HORIZ
1"=5' VERT

FIRE HYDRANT 'B'
SCALE: 1"=50' HORIZ
1"=5' VERT

FIRE HYDRANT 'C'
SCALE: 1"=50' HORIZ
1"=5' VERT

FIRE HYDRANT 'D'
SCALE: 1"=50' HORIZ
1"=5' VERT



WATERMAIN PROFILE #3
SCALE: 1"=50' HORIZ
1"=5' VERT

FIRE HYDRANT 'E'
SCALE: 1"=50' HORIZ
1"=5' VERT

FIRE HYDRANT 'F'
SCALE: 1"=50' HORIZ
1"=5' VERT

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APPROVED *John P. Platter* 6/8/99
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Cheryl Simmons 6/8/99
U.S. SOIL CONSERVATION SERVICE DATE

OWNER/DEVELOPER
CHATHAM MALL COMPANY LLP
9200 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 465-8435

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert Benner 6-9-99
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
Cheryl Simmons 6/8/99
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
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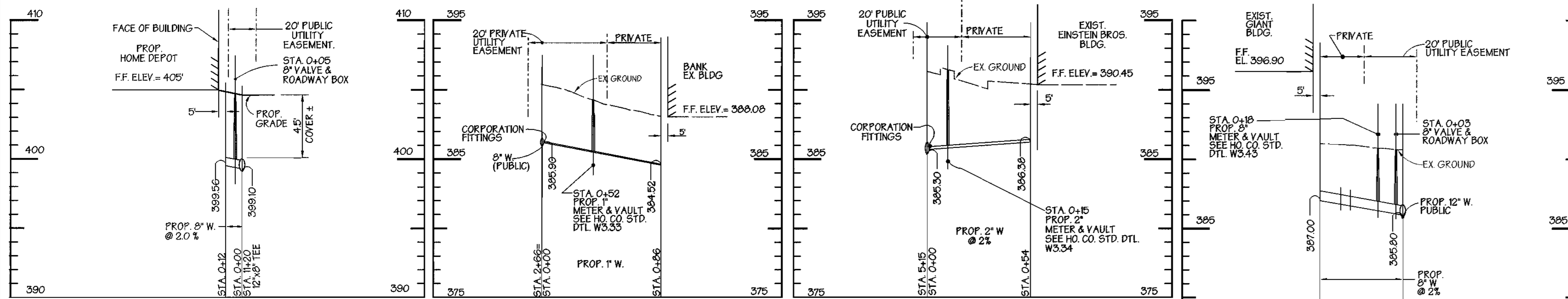


DESIGNED BY: D.A.G. / K.E.
DRAWN BY: D.A.G. / P.T.
CHECKED BY: V.Z.

PROFILES
CONTRACT NO. 14-3783-D
600 SCALE MAP NO. 24 BLOCK NO. 4&5

BY	NO.	REVISION	DATE

PUBLIC WATER & SEWER PROFILES
CHATHAM MALL PARCEL 'A'
CONTRACT NO. 14-3783-D
ELECTION DISTRICT: 2 HOWARD CO., MARYLAND
SHT. 4 OF 5
SCALE: As Shown
DATE: MAY 22, 1999
P/N 8761- publicwaterprofiles.01

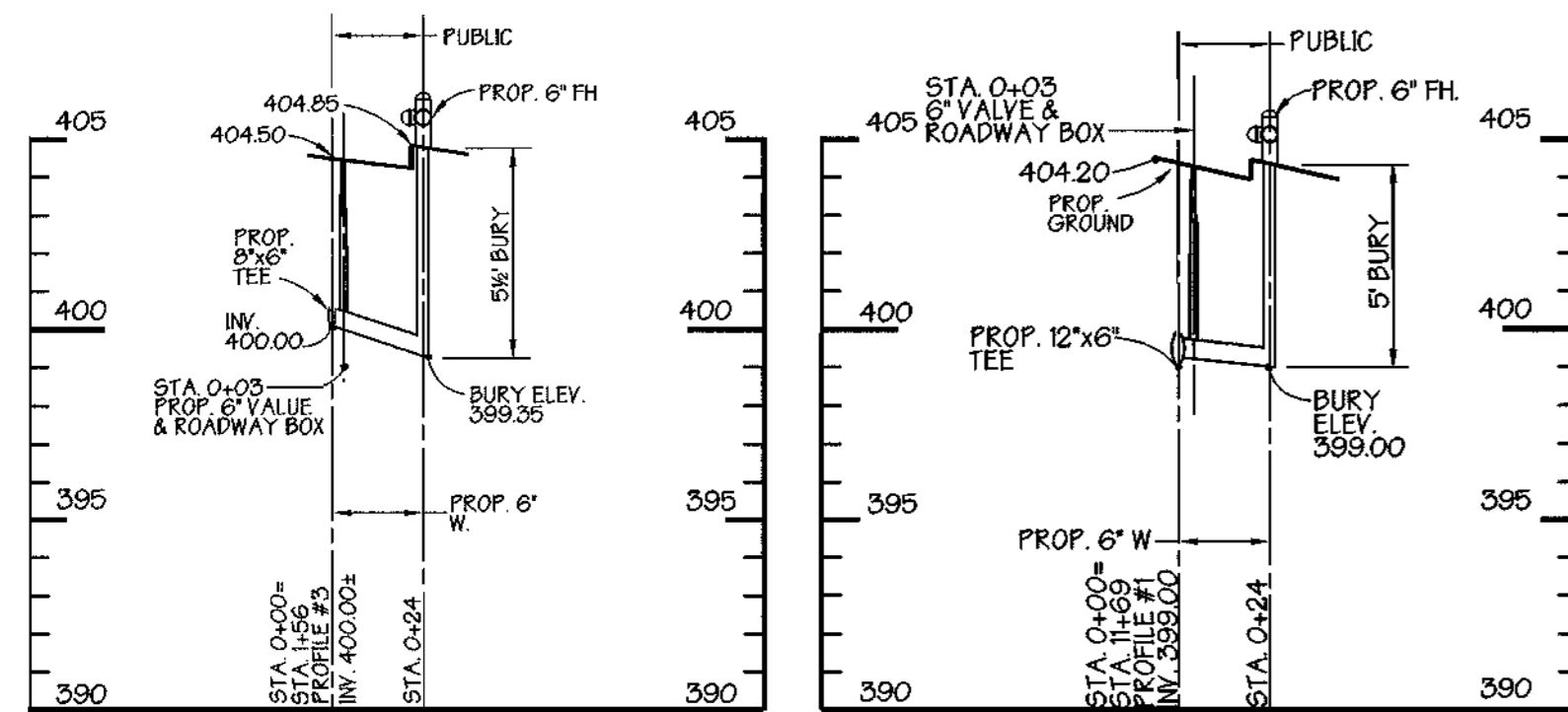


WATER HOUSE CONNECTION TO PROP. HOME DEPOT
SCALE: 1"=50' HORIZ
1"=5' VERT

WATER HOUSE CONNECTION TO EXIST. BANK BLDG.
SCALE: 1"=50' HORIZ
1"=5' VERT

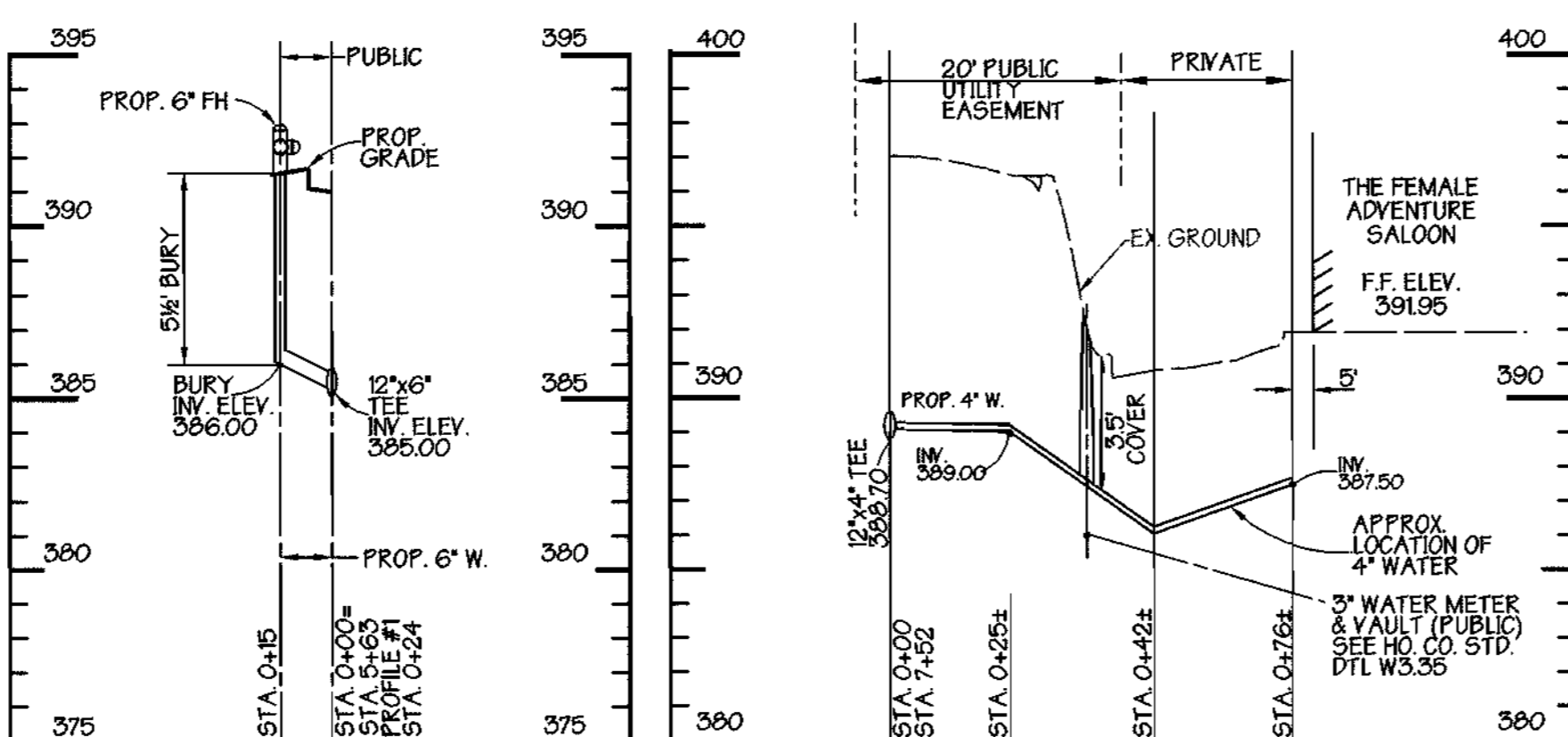
WATER HOUSE CONNECTION TO EXIST. EINSTEIN BROS. BLDG
SCALE: 1"=50' HORIZ
1"=5' VERT

WATER HOUSE CONNECTION TO EX. GIANT FOOD
SCALE: 1"=50' HORIZ
1"=5' VERT



FIRE HYDRANT 'G'
SCALE: 1"=50' HORIZ
1"=5' VERT

FIRE HYDRANT 'H'
SCALE: 1"=50' HORIZ
1"=5' VERT



FIRE HYDRANT 'J'
SCALE: 1"=50' HORIZ
1"=5' VERT

WATER HOUSE CONNECTION TO EXIST. FEMALE ADVENTURE SALLON
SCALE: 1"=50' HORIZ
1"=5' VERT

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED: *John R. Platter* 6/8/99
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Cheryl Simmons 6/8/99
U.S. SOIL CONSERVATION SERVICE DATE

OWNER/DEVELOPER
CHATHAM MALL COMPANY LLP
9200 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 465-8435

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert Berman 6-9-99
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
Cheryl Simmons 6/8/99
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
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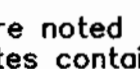
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DRAWN BY: D.A.G. / P.T.
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PROFILES
CONTRACT NO. 14-3783-D
600 SCALE MAP NO. 24
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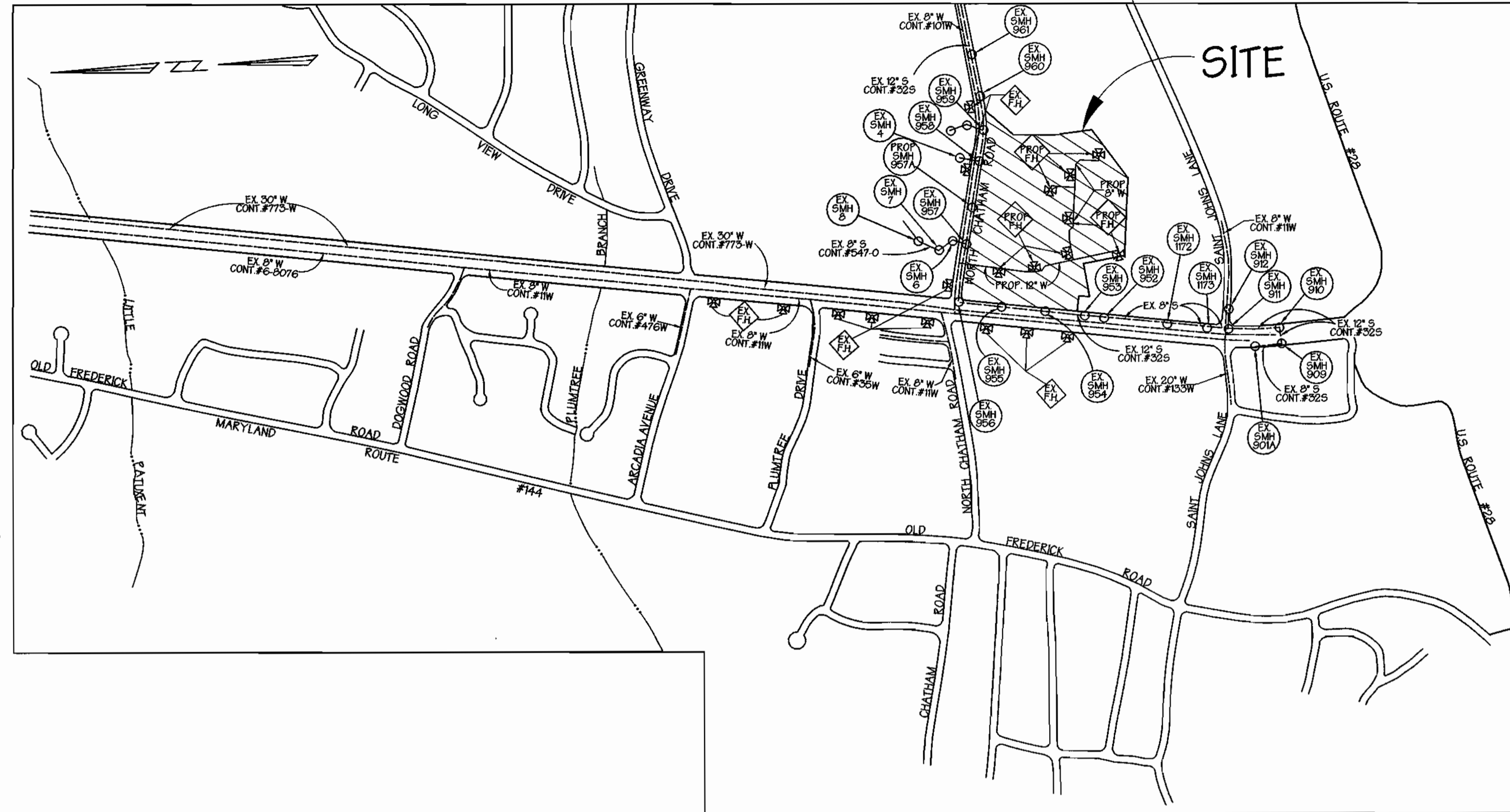
BY	NO.	REVISION	DATE

PUBLIC WATER & SEWER PROFILES
CHATHAM MALL PARCEL 'A'
CONTRACT NO. 14-3783-D
ELECTION DISTRICT: 2
HOWARD CO., MARYLAND
SCALE: As Shown
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SHT. 5 OF 5
P/N 8761- publicwaterprofiles.s01

GENERAL NOTES

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- Fire hydrants shall be set 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.
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- All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
- All sewer mains shall be D.I.P. or P.V.C., unless otherwise noted.
- All manholes shall be 4'-0" inside diameter unless otherwise noted.
- Manholes to be precast concrete structure.
- Manholes shown with 12" and 16" area are for brick manholes only.



LOCATION MAP
SCALE: 1" = 600'

TYPE OF BLDGS : SHOPPING CENTER
 NO. OF LOTS : 1
 NO. OF WATER H.C. : 6
 NO. OF SEWER H.C. : 0
 DRAINAGE AREA : LITTLE PATUXENT
 WATER CODE : F06
 SEWER CODE : 1404100, 1403700
 TEST GRADIENT ELEV. : 700
 TREATMENT PLANT : LITTLE PATUXENT WATER RECLAMATION PLANT SAVAGE, HOWARD COUNTY

BENCH MARK ELEV. 117.4090

N17804.6906
E 414293.0309

DESCRIPTION
CONC. MONUMENT 10' SOUTH OF SOUTH EDGE OF ROUTE 40 EAST (TRAFFIC LANE) 150' EAST END OF SUNOCO STATION OPPOSITE DOCTOR'S BUILDING 1.50' BELOW THE SURFACE.

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/ SUPPLIER
12" DIP Water Main	1,163 L.F.			
8" DIP Water Main	1,040 L.F.			
6" DIP Water Main	173 L.F.			
4" D.I.P. Water Main	60 L.F.			
2" D.I.P. Water Main	25 L.F.			
1" D.I.P. Water Main	62 L.F.			
Fire Hydrants	8 Each			
12"x8" TEE	2 Each			
12"x6" TEE	2 Each			
12"x4" TEE	1 Each			
8"x8" TEE	1 Each			
8"x6" TEE	5 Each			
12" VALVE AND ROADWAY BOX	1 Each			
8" VALVE AND ROADWAY BOX	5 Each			
6" VALVE AND ROADWAY BOX	8 Each			
4" VALVE AND ROADWAY BOX	1 Each			
8" x 12" Increaser	1 Each			
8" x 8" Tapping Sleeve	1 Each			
1" Meter & Vault (Ho.Co. Std. Dtl. W3.33)	1 Each			
2" Meter & Vault (Ho.Co. Std. Dtl. W3.34)	1 Each			
3" Meter & Vault (Ho.Co. Std. Dtl. W3.35)	1 Each			
8" Meter & Vault (Ho.Co. Std. Dtl. W3.43)	2 Each			
Sanitary Manhole/Drop Manhole/Type 76'	1 Each			
8" P.V.C. Sanitary Sewer	10 L.F.			

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

WATER & SEWER CONSTRUCTION PLANS CHATHAM MALL PARCEL 'A'

2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-3783-D

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1	COVER SHEET, GENERAL NOTES & LOCATION MAP
2	PLAN VIEW
3	PLAN VIEW
4	PROFILES
5	PROFILES

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED :  6/18/99
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

 6/18/99
U.S. SOIL CONSERVATION SERVICE DATE

OWNER/DEVELOPER

CHATHAM MALL COMPANY LLP
9200 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 465-8435

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



DESIGNED BY: D.A.G., K.E.
DRAWN BY: D.A.G., P.T.
CHECKED BY: V.Z.

COVER SHEET, GENERAL NOTES & LOCATION MAP

CONTRACT NO. 14-3783-D

600 SCALE MAP NO. 24

BLOCK NO. 4&5

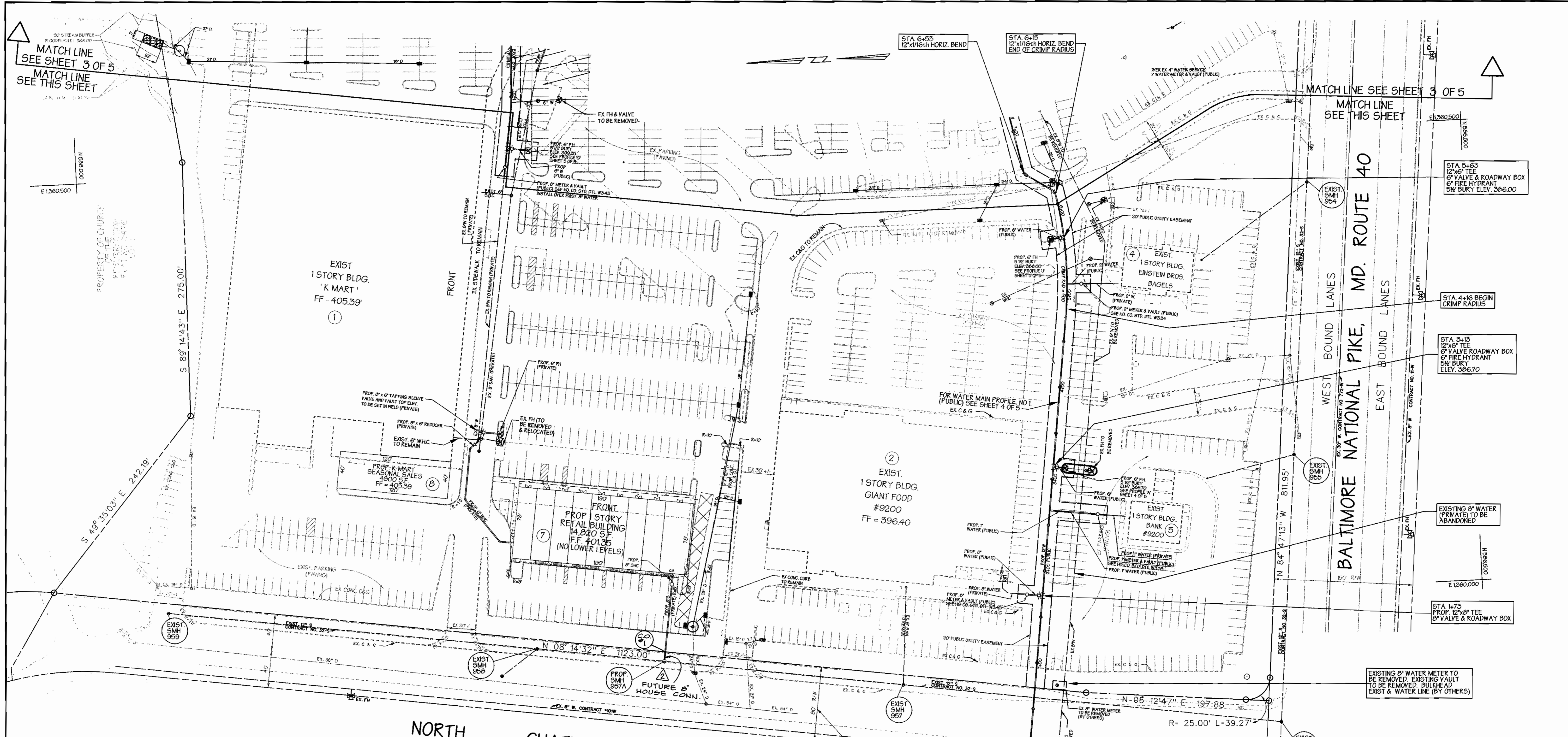
PUBLIC WATER & SEWER MAIN CHATHAM MALL PARCEL 'A'

CONTRACT NO. 14-3783-D

ELECTION DISTRICT : 2
HOWARD CO., MARYLAND

SHT. 1 OF 5

SCALE : As Shown
DATE : MAY 22, 1999



SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED: *John L. Whitson* 6/8/99
 HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Paul S. Simmons 6/8/99
 U.S. SOIL CONSERVATION SERVICE DATE

PLAN NORTH
 SCALE: 1" = 50'

OWNER/DEVELOPER
 CHATHAM MALL COMPANY LLP
 9200 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 465-8435

CHATHAM ROAD

CHATHAM LIMITED PARTNERSHIP
 DEED LIBER 767 FOLIO 654
 SECTION ONE
 "CHATHAM GARDEN APARTMENTS"
 PARCEL A-1
 PLAT # 3976

STATIONING AND ELEVATIONS:
 STA. 0+00 CONNECT TO EXIST. 8" W. (CONTR. 101W) W/ 8"x8" TAPPING SLEEVE
 STA. 0+05 8" VALVE & ROADWAY BOX
 STA. 0+10 8"x12" INCREASER
 TURN OFF EXISTING 8" VALVE AND REMOVE EXISTING ROADWAY BOX

SUBDIVISION PROPERTY OF THE "RAMSBURG PROPERTY" PLAT 10/94
 LOT 1
 THE FIRST REPUBLIC CORPORATION OF AMERICA
 DEED LIBER 1576 FOLIO 345

NOTE: ALL EXISTING ON SITE FIRE HYDRANTS TO BE REMOVED. EXISTING 6" VALVES TO BE TURNED OFF. EXISTING ROADWAY BOXES TO BE REMOVED.

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

Rodney Beaman 6-9-99
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

Paul S. Simmons 6/9/99
 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



DESIGNED BY: D.A.G. / K.E.
 DRAWN BY: D.A.G. / P.T.
 CHECKED BY: V.Z.

CONTRACT NO. 14-3783-D
 600 SCALE MAP NO. 24
 BLOCK NO. 4&5

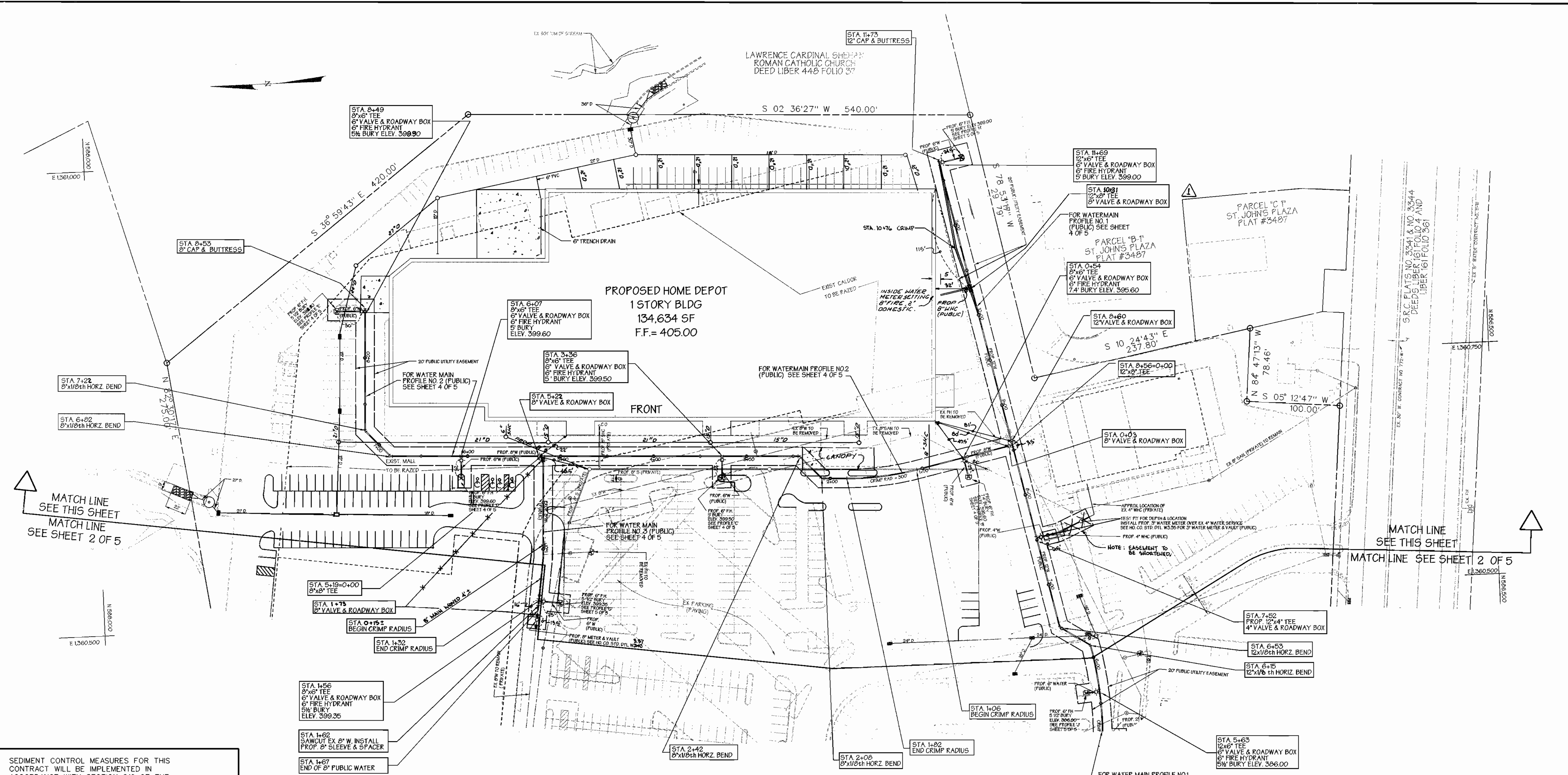
PUBLIC WATER & SEWER PLAN
CHATHAM MALL PARCEL 'A'
 CONTRACT NO. 14-3783-D

ELECTION DISTRICT : 2
 HOWARD CO., MARYLAND

SCALE: As Shown
 DATE: MAY 22, 1999

SHT. 2 OF 5

BY	NO.	REVISION	DATE
GWS	1	REMOVED SANITARY CONNECTION TO RETAIL BUILDING FROM THIS CONTRACT AND ADDED TO SDP 99-100	OCTOBER 5, 1999



PLAN
SCALE: 1" = 50'

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED: *John K. Roberts* 6/8/99
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Cheryl Simmons 6/8/99
U.S. SOIL CONSERVATION SERVICE DATE

OWNER/DEVELOPER
CHATHAM MALL COMPANY LLP
9200 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 465-8435

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



DESIGNED BY: D.A.G. / K.E.
DRAWN BY: D.A.G. / P.T.
CHECKED BY: V.Z.

PLAN VIEW

CONTRACT NO. 14-3783-D
600 SCALE MAP NO. 24

BLOCK NO. 4&5

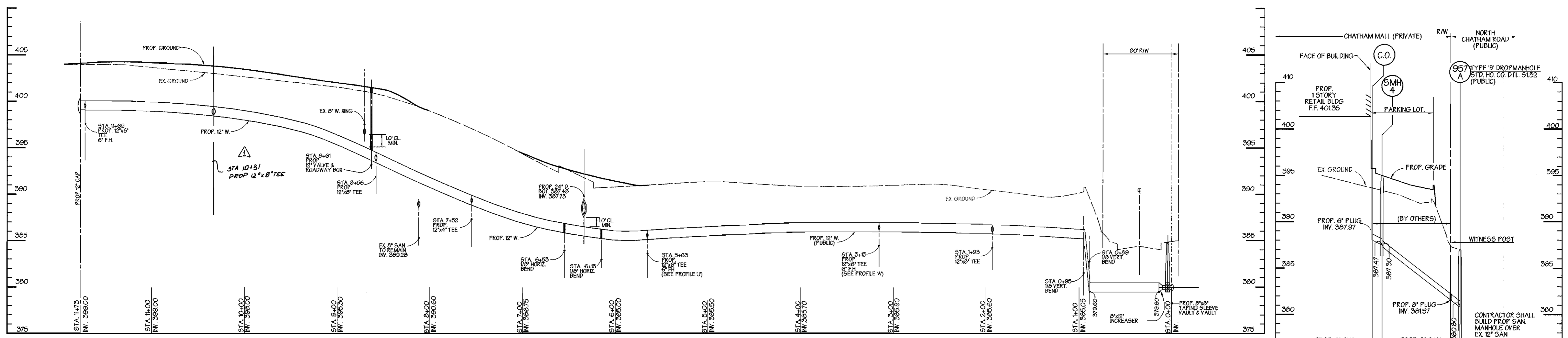
BY	NO.	REVISION	DATE
GN5	1	RELOCATED INSIDE WATER METER SETTING FOR HOME DEPOT, ADDED STORM DRAINS, SEWER HOUSE CONNECTIONS AND REVISED CANOPY IN FRONT OF HOME DEPOT AND REVISED PARKING LAYOUT.	9.13.1999

PUBLIC WATER & SEWER PLAN
CHATHAM MALL PARCEL 'A'
CONTRACT NO. 14-3783-D

ELECTION DISTRICT : 2
HOWARD CO., MARYLAND

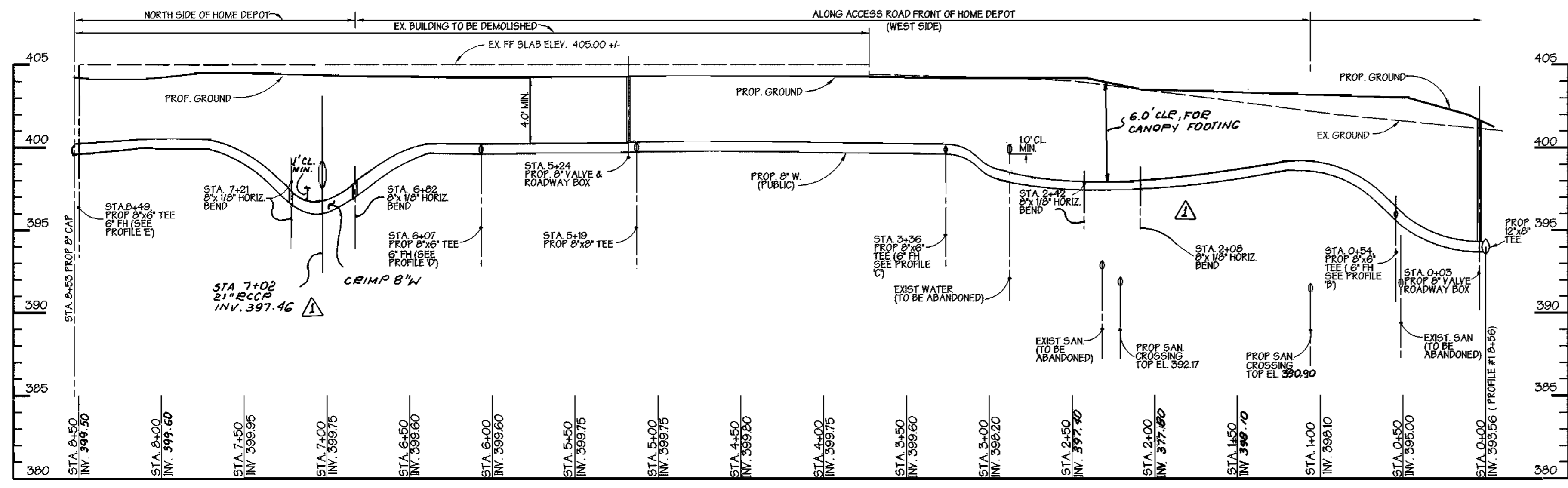
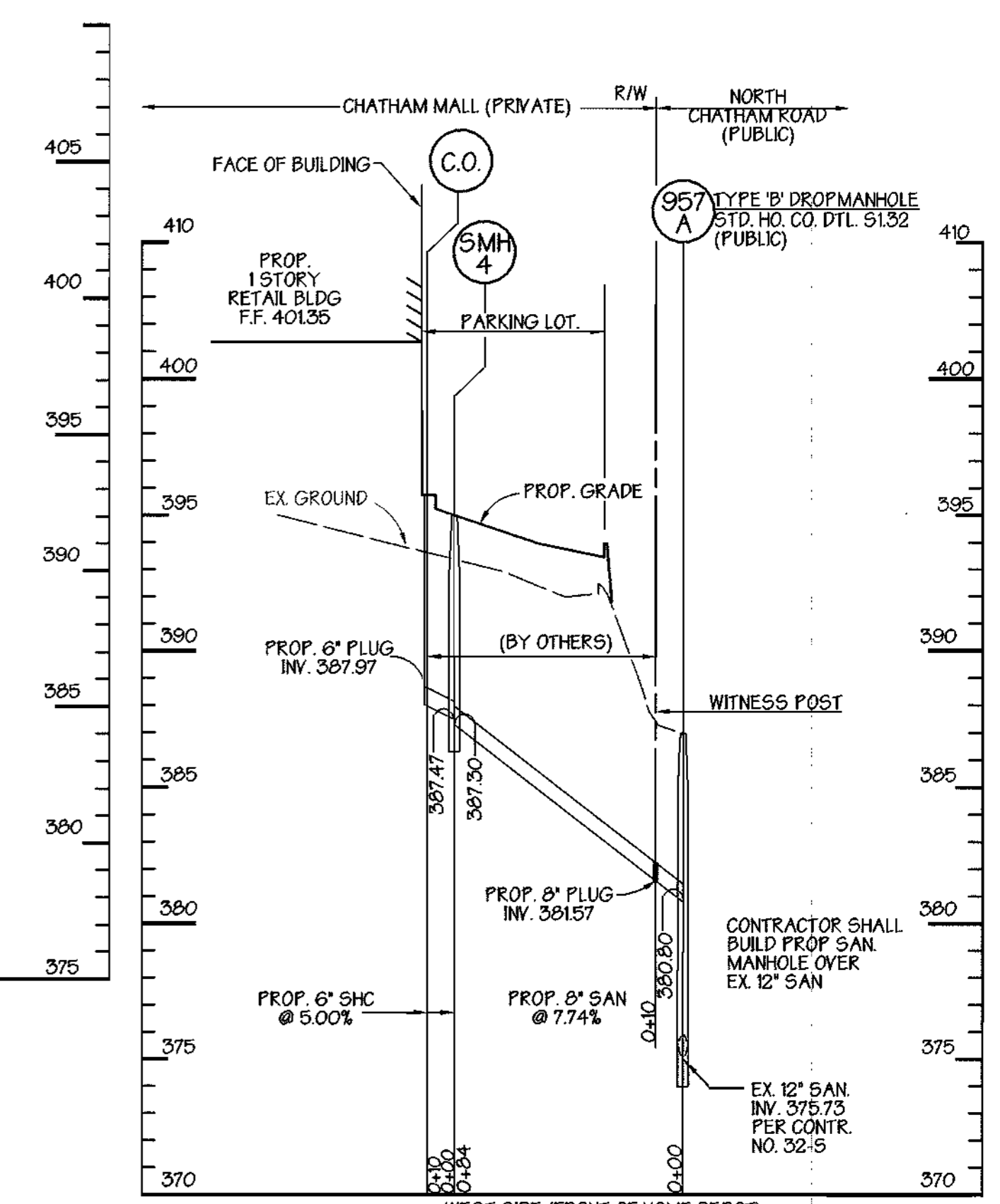
SHT. 3 OF 5

SCALE: As Shown
DATE: MAY 22, 1999



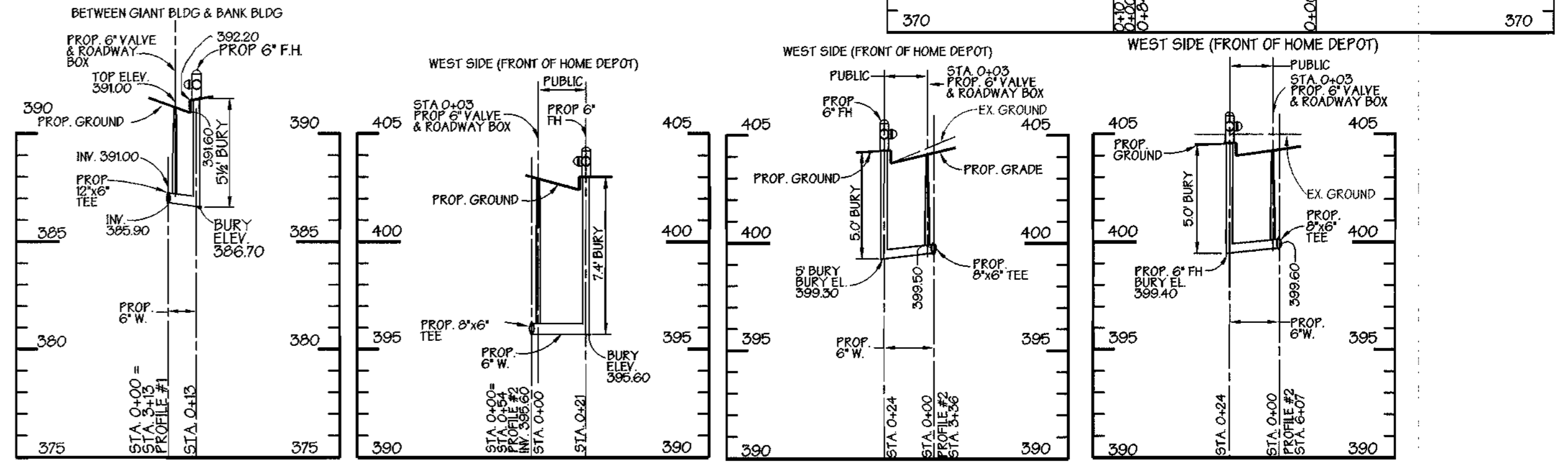
WATERMAIN PROFILE #1

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



WATERMAIN PROFILE #2

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



FIRE HYDRANT 'A'

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

FIRE HYDRANT 'B'

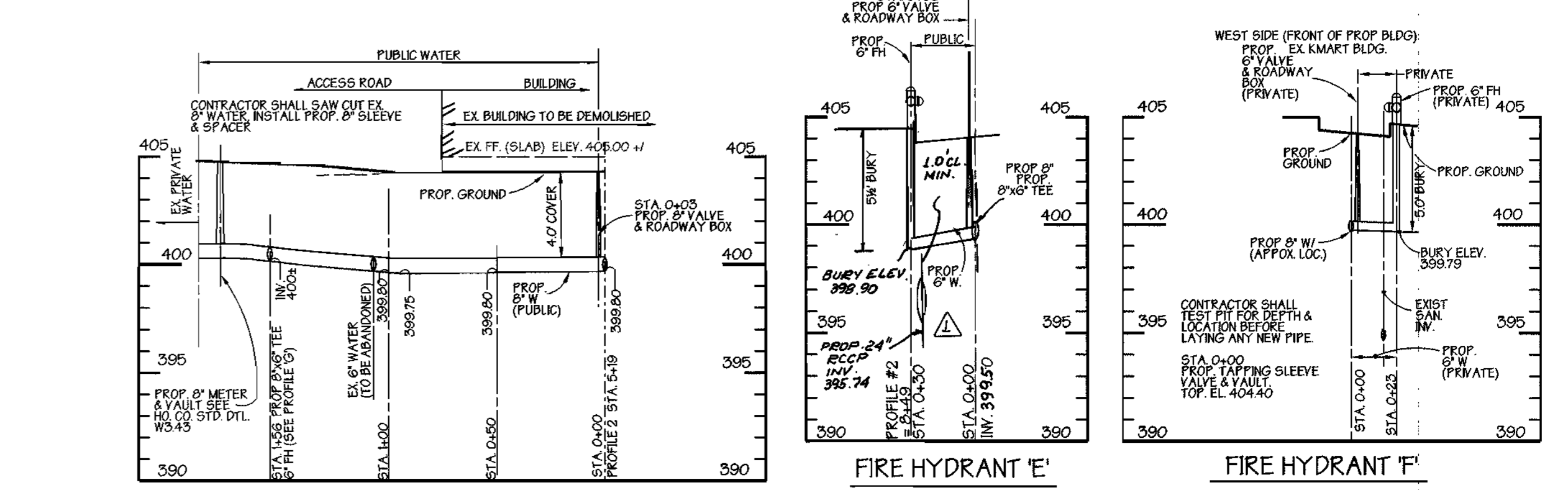
SCALE: 1"=50' HORIZ
1"=5' VERT

FIRE HYDRANT 'C'

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

FIRE HYDRANT 'D'

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



WATERMAIN PROFILE #3

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

FIRE HYDRANT 'E'

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

FIRE HYDRANT 'F'

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

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED *John P. Klutner* 6/8/99
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Cheryl Simmons 6/8/99
U.S. SOIL CONSERVATION SERVICE DATE

OWNER/DEVELOPER
CHATHAM MALL COMPANY LLP
9200 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 465-8435

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Rodney Benjamin 6-9-99
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
Cheryl Simmons 6/8/99
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

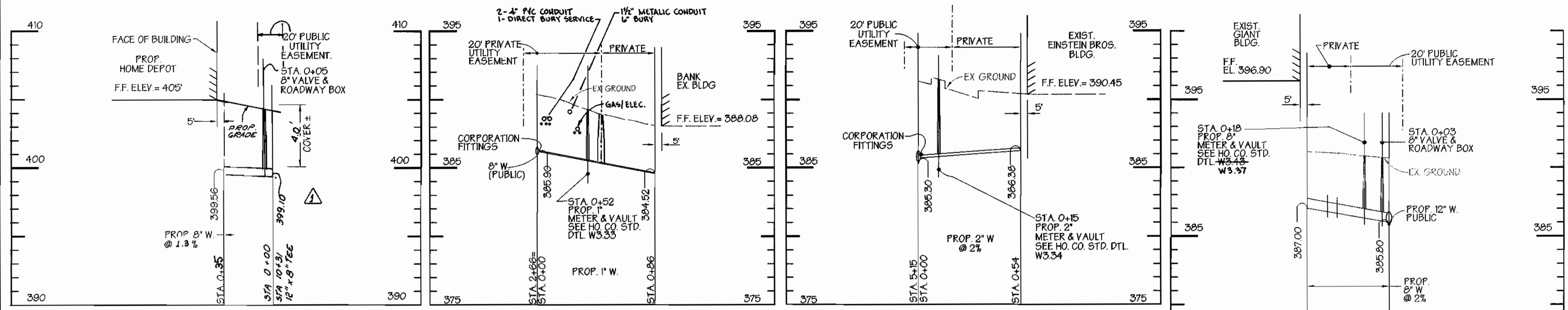


DESIGNED BY: D.A.G. / K.E.
DRAWN BY: D.A.G., P.T.
CHECKED BY: V.Z.

PROFILES
CONTRACT NO. 14-3783-D
600 SCALE MAP NO. 24
BLOCK NO. 4&5

BY	NO.	REVISION	DATE
GWS	1	REVISED WATER PROFILES DUE TO CHANGES ON SHEET 3 OF 5	9.13.99

PUBLIC WATER & SEWER PROFILES
CHATHAM MALL PARCEL 'A'
CONTRACT NO. 14-3783-D
ELECTION DISTRICT : 2
HOWARD CO., MARYLAND
SHT. 4 OF 5
SCALE : As Shown
DATE : MAY 22, 1999



WATER HOUSE CONNECTION TO PROP. HOME DEPOT

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

WATER HOUSE CONNECTION TO EXIST. BANK BLDG.

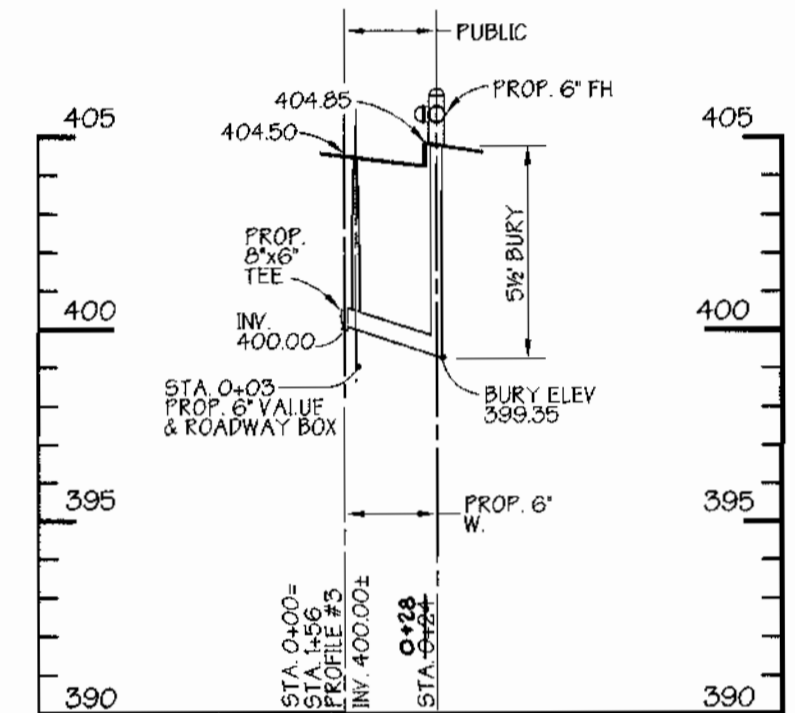
SCALE: 1"=50' HORIZ
1"=5' VERT

WATER HOUSE CONNECTION TO EXIST. EINSTEIN BROS. BLDG.

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

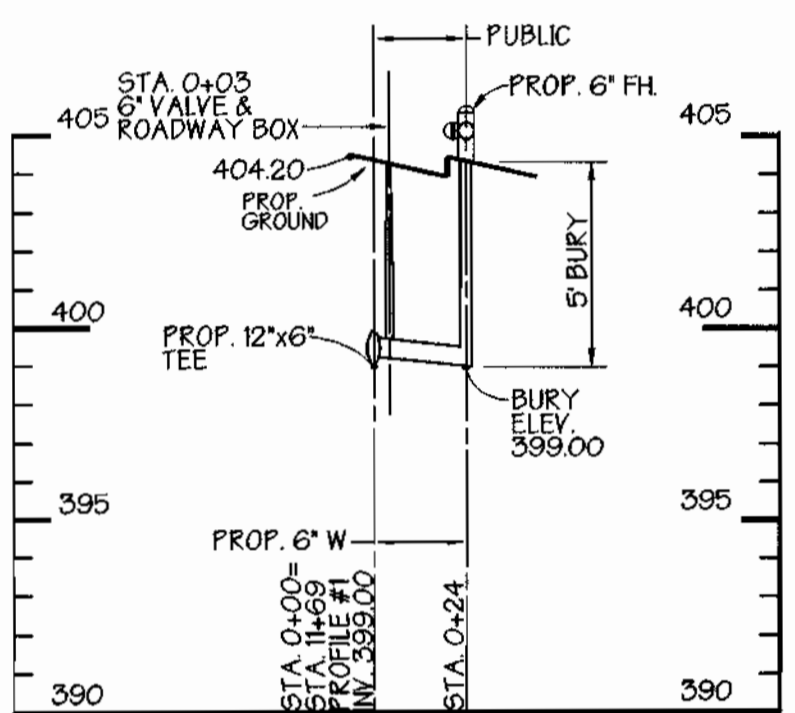
WATER HOUSE CONNECTION TO EX. GIANT FOOD

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



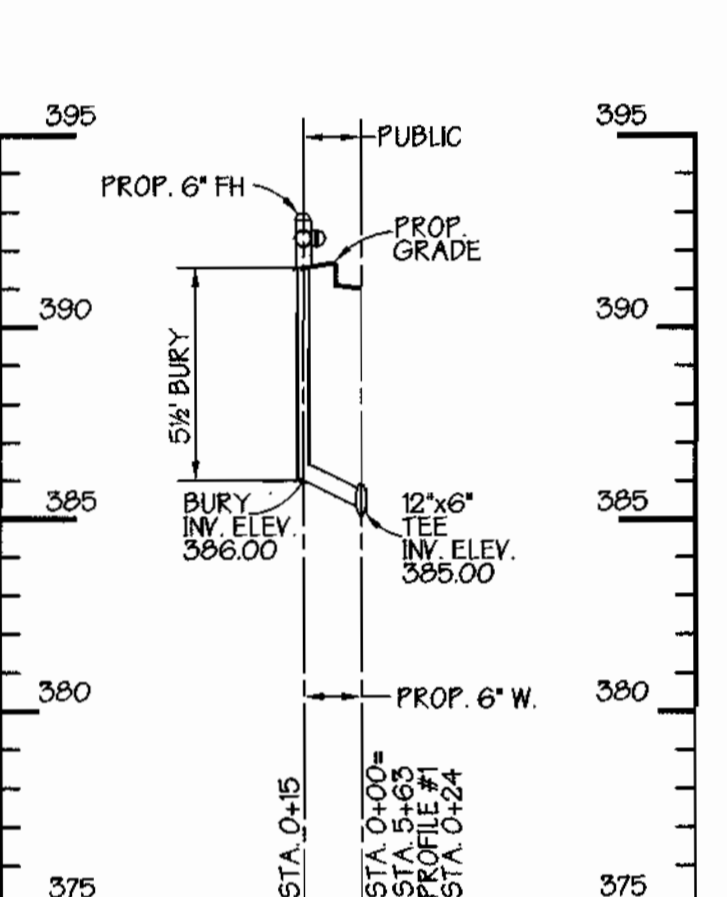
FIRE HYDRANT 'G'

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



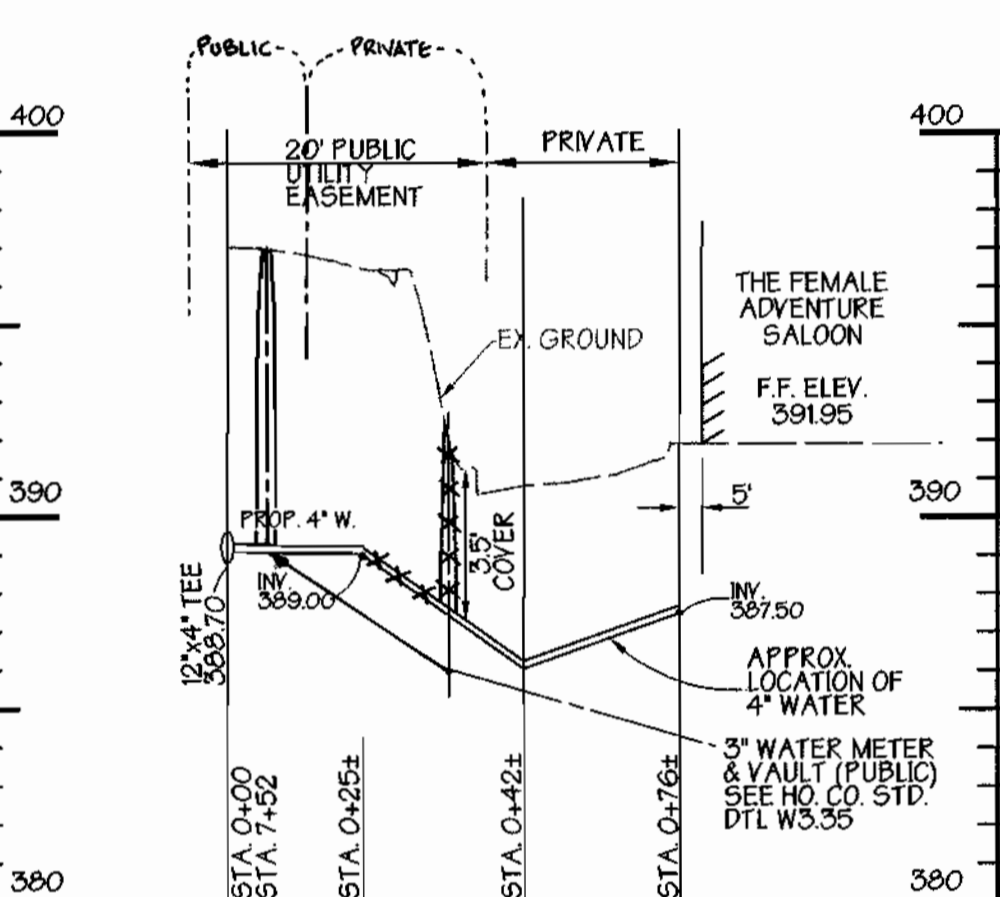
FIRE HYDRANT 'H'

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



FIRE HYDRANT 'J'

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



WATER HOUSE CONNECTION TO EXIST. FEMALE ADVENTURE SALLON

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

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED: *John K. Platter* 6/8/99
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

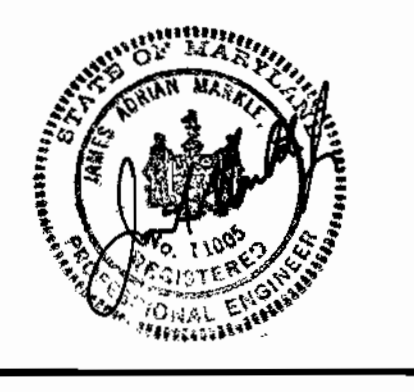
Cheryl Simmons 6/8/99
U.S. SOIL CONSERVATION SERVICE DATE

OWNER/DEVELOPER
CHATHAM MALL COMPANY LLP
9200 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 465-8435

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert DeWitt 6-9-99
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
Cheryl Simmons 6/8/99
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




DESIGNED BY: D.A.G. / K.E.
DRAWN BY: D.A.G. / P.T.
CHECKED BY: V.Z.

PROFILES
CONTRACT NO. 14-3783-D
600 SCALE MAP NO. 24 BLOCK NO. 4&5

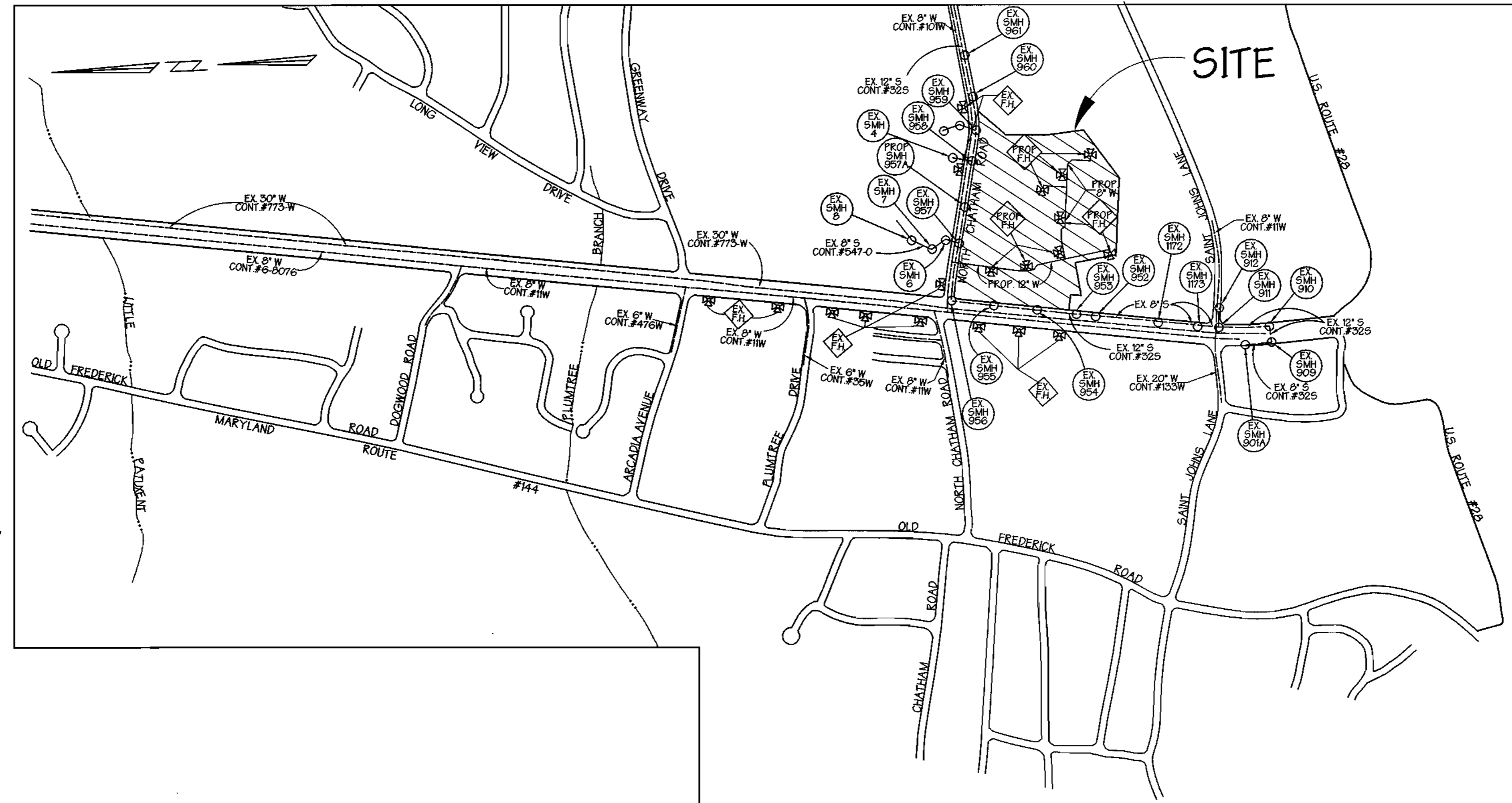
BY	NO.	REVISION	DATE
GWS	Δ	REVISED WATER HOUSE CONNECTION PROFILE FOR HOME DEPOT	9.18.1999

PUBLIC WATER & SEWER PROFILES
CHATHAM MALL PARCEL 'A'
CONTRACT NO. 14-3783-D
ELECTION DISTRICT: 2 HOWARD CO., MARYLAND
SCALE: As Shown
DATE: MAY 22, 1999
SHT. 5 OF 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 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 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
Baltimore Gas & Electric Co. Contractor Services	850-4620
Baltimore Gas & Electric Co. Underground Damage Control	787-9068
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 tees shall be strapped to tees.
- 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 set 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 sewer mains shall be D.I.P. or P.V.C., unless otherwise noted.
- All manholes shall be 4'-0" inside diameter unless otherwise noted.
- Manholes to be precast concrete structure.
- Manholes shown with 12" and 16" area are for brick manholes only.



LOCATION MAP
SCALE: 1" = 600'

TYPE OF BLDGS : SHOPPING CENTER
 NO. OF LOTS : 1
 NO. OF WATER H.C. : 6
 NO. OF SEWER H.C. : 0
 DRAINAGE AREA : LITTLE PATUXENT
 WATER CODE : F06
 SEWER CODE : 1404100, 1403700
 TEST GRADIENT ELEV. : 700
 TREATMENT PLANT : LITTLE PATUXENT WATER RECLAMATION PLANT SAVAGE, HOWARD COUNTY

BENCH MARK. ELEV. 117.4090

N178014.6906
E 414295.0309

DESCRIPTION
CONC. MONUMENT 18' SOUTH OF SOUTH EDGE OF ROUTE 40 EAST (TRAFFIC LANE) 150' EAST END OF SUNOCO STATION OPPOSITE DOCTOR'S BUILDING 1.50' BELOW THE SURFACE.

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/ SUPPLIER
12" DIP Water Main	1,163 L.F.			
8" DIP Water Main	1,040 L.F.			
6" DIP Water Main	173 L.F.			
4" D.I.P. Water Main	60 L.F.			
2" D.I.P. Water Main	25 L.F.			
1" D.I.P. Water Main	82 L.F.			
Fire Hydrants	8 Each			
12"x8" TEE	2 Each			
12"x6" TEE	2 Each			
12"x4" TEE	1 Each			
8"x8" TEE	1 Each			
8"x6" TEE	5 Each			
12" VALVE AND ROADWAY BOX	1 Each			
8" VALVE AND ROADWAY BOX	5 Each			
6" VALVE AND ROADWAY BOX	8 Each			
4" VALVE AND ROADWAY BOX	1 Each			
8" x 12" Increaser	1 Each			
8" x 8" Tapping Sleeve	1 Each			
1" Meter & Vault (Ho.Co. Std. Dtl. W3.33)	1 Each			
2" Meter & Vault (Ho.Co. Std. Dtl. W3.34)	1 Each			
3" Meter & Vault (Ho.Co. Std. Dtl. W3.35)	1 Each			
8" Meter & Vault (Ho.Co. Std. Dtl. W3.43)	2 Each			
12"x1/2" HORIZ. & VERTICAL BEND	2 EACH			

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

WATER & SEWER CONSTRUCTION PLANS CHATHAM MALL PARCEL 'A'

2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND


CONTRACT NO. 14-3783-D

INDEX OF SHEETS

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

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED :  6/8/99
HOWARD SOIL CONSERVATION DISTRICT DATE

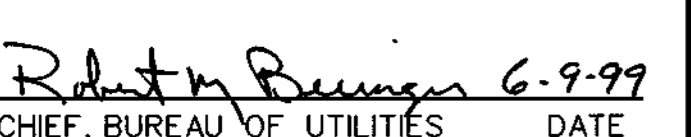
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

 6/8/99
U.S. SOIL CONSERVATION SERVICE DATE

OWNER/DEVELOPER
CHATHAM MALL COMPANY LLP
9200 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 465-8435

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

 6-9-99
CHIEF, BUREAU OF UTILITIES DATE

 6/9/99
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



DESIGNED BY: D.A.G., K.E.
DRAWN BY: D.A.G., P.T.
CHECKED BY: V.Z.

COVER SHEET, GENERAL NOTES & LOCATION MAP

CONTRACT NO. 14-3783-D

600 SCALE MAP NO. 24

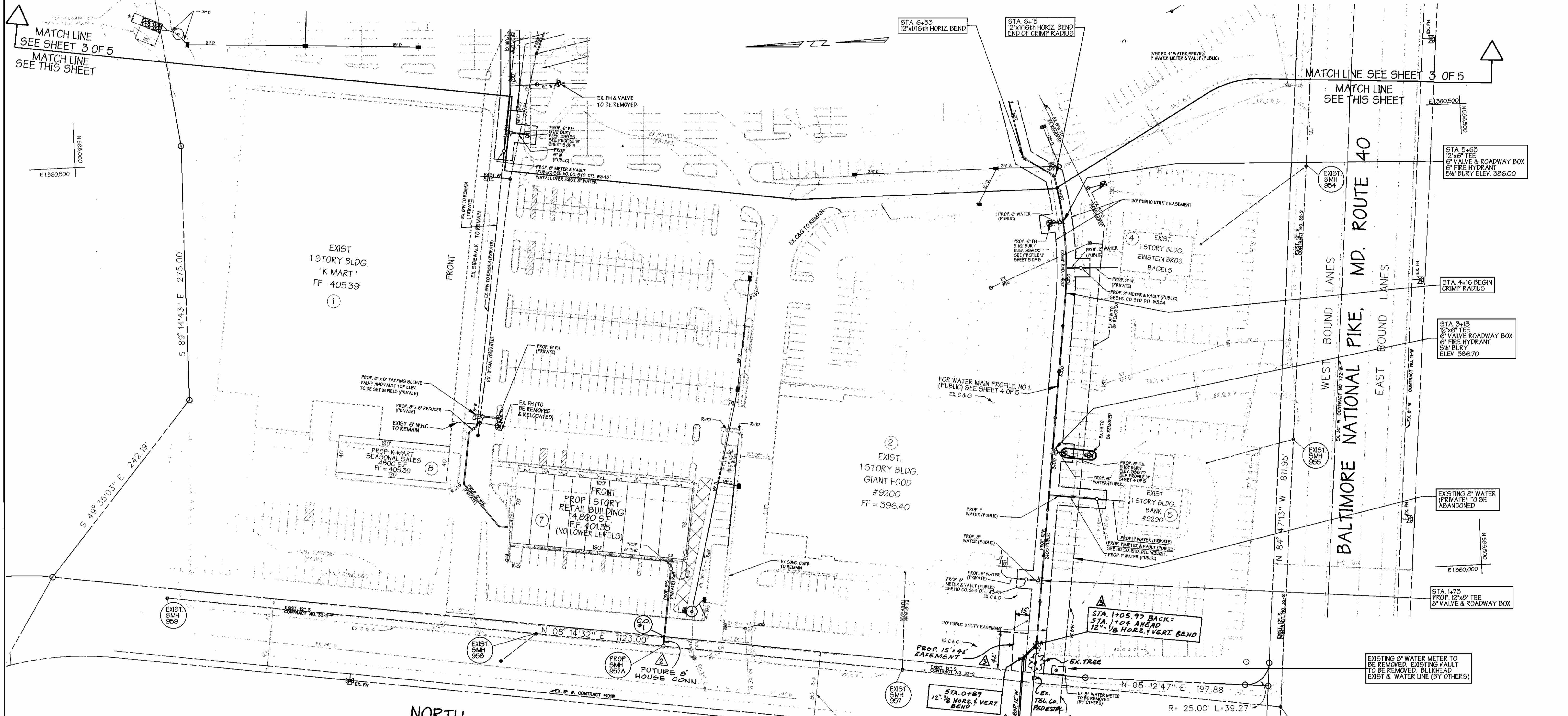
BLOCK NO. 4&5

PUBLIC WATER & SEWER MAIN CHATHAM MALL PARCEL 'A'

ELECTION DISTRICT : 2
HOWARD CO., MARYLAND

SHT. 1 OF 5

SCALE : As Shown
DATE : MAY 22, 1999



SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED: *John R. Whitson* 6/1/99
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Paul S. Summers 6/1/99
U.S. SOIL CONSERVATION SERVICE DATE

PLAN NORTH
SCALE: 1" = 50'

OWNER/DEVELOPER
CHATHAM MALL COMPANY LLP
9200 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 465-8435

CHATHAM LIMITED PARTNERSHIP
DEED LIBER 787 FOLIO 654
SECTION ONE
"CHATHAM GARDEN APARTMENTS"
PARCEL A.1
PLAT # 3976

DESIGNED BY: D.A.G. / K.E.
DRAWN BY: D.A.G., P.T.
CHECKED BY: V.Z.

CONTRACT NO. 14-3783-D
600 SCALE MAP NO. 24

NOTE: ALL EXISTING ON SITE FIRE HYDRANTS TO BE REMOVED. EXISTING VAULTS TO BE REMOVED. BULKHEAD EXIST & WATER LINE (BY OTHERS)

BY	NO.	REVISION	DATE
GWS	1	REMOVED SANITARY CONNECTION TO RETAIL BUILDING FROM THIS CONTRACT AND ADDED TO SDP 99-100	OCTOBER 5, 1999
GWS	2	REVISED LOCATION OF 12" W. NORTH CHATHAM ROAD. ADDED 15' x 42' EASEMENT	NOVEMBER 22, 1999

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Randy Beving 6-9-99
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

John R. Whitson 6/1/99
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



PLAN VIEW

CONTRACT NO. 14-3783-D
600 SCALE MAP NO. 24

BLOCK NO. 4&5

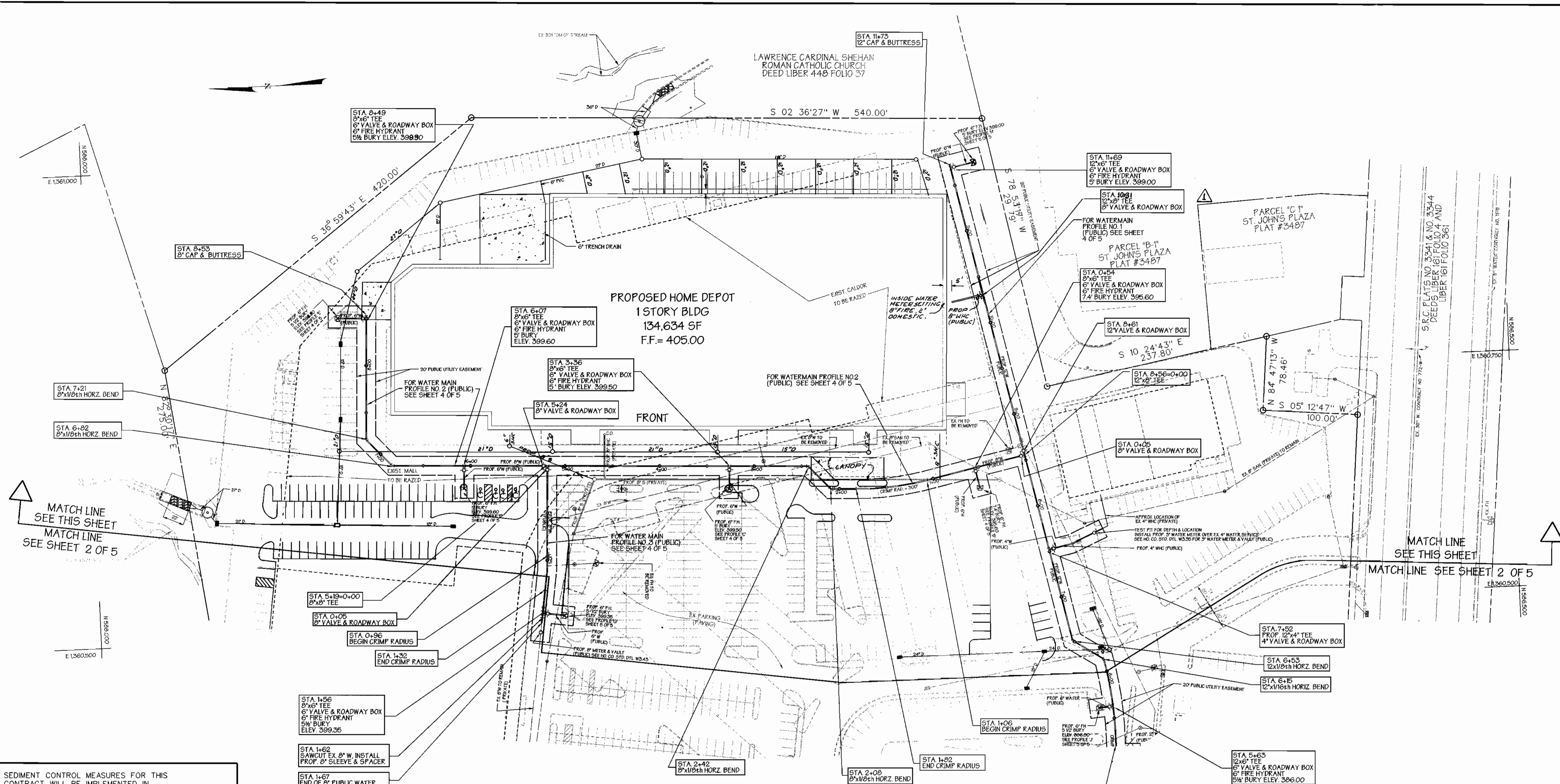
PUBLIC WATER & SEWER PLAN
CHATHAM MALL PARCEL 'A'
CONTRACT NO. 14-3783-D

ELECTION DISTRICT : 2
HOWARD CO., MARYLAND

SCALE : As Shown
DATE : MAY 22, 1999

SHT. 2 OF 5

P/N 8761- publicwater1.s01



PLAN
SCALE: 1" = 50'

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED: *[Signature]* 6/8/99
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
[Signature] 6/8/99
U.S. SOIL CONSERVATION SERVICE DATE

OWNER/DEVELOPER
CHATHAM MALL COMPANY LLP
9200 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 465-8435

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
[Signature] 6-9-99
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
[Signature] 6/9/99
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

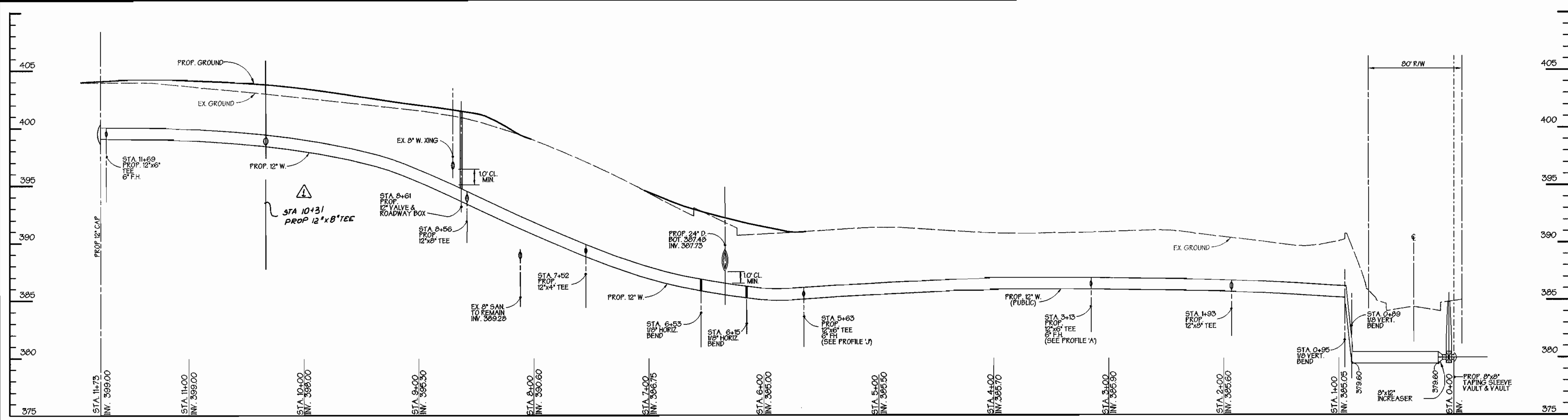


DESIGNED BY: D.A.G. / K.E.
DRAWN BY: D.A.G. / P.T.
CHECKED BY: Y.Z.

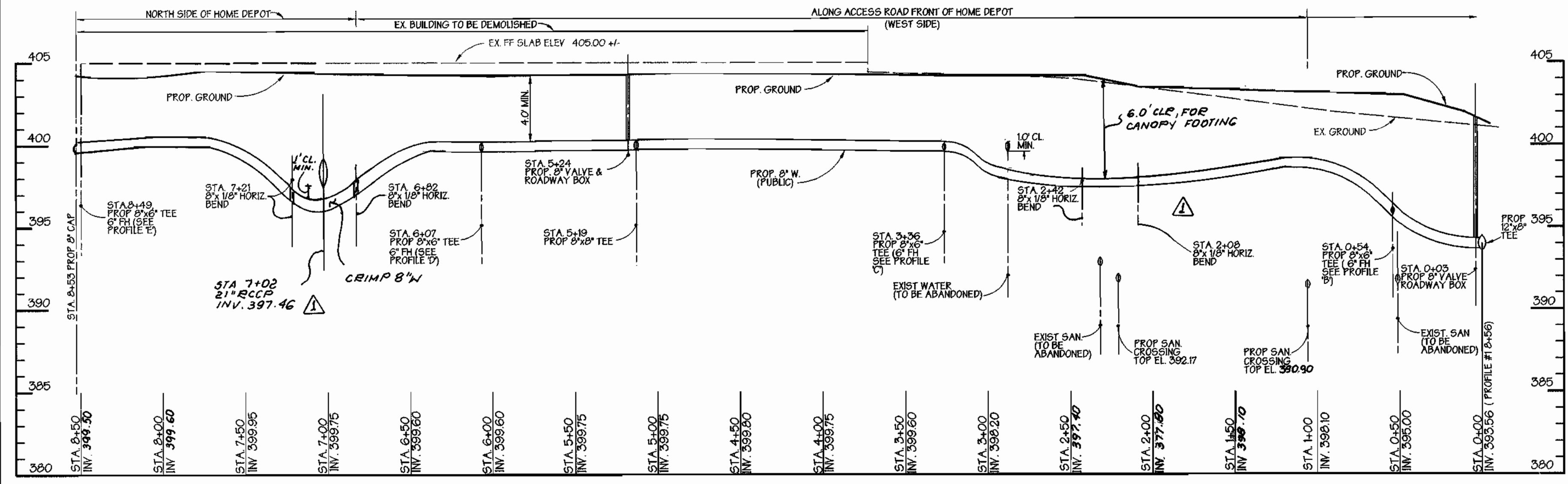
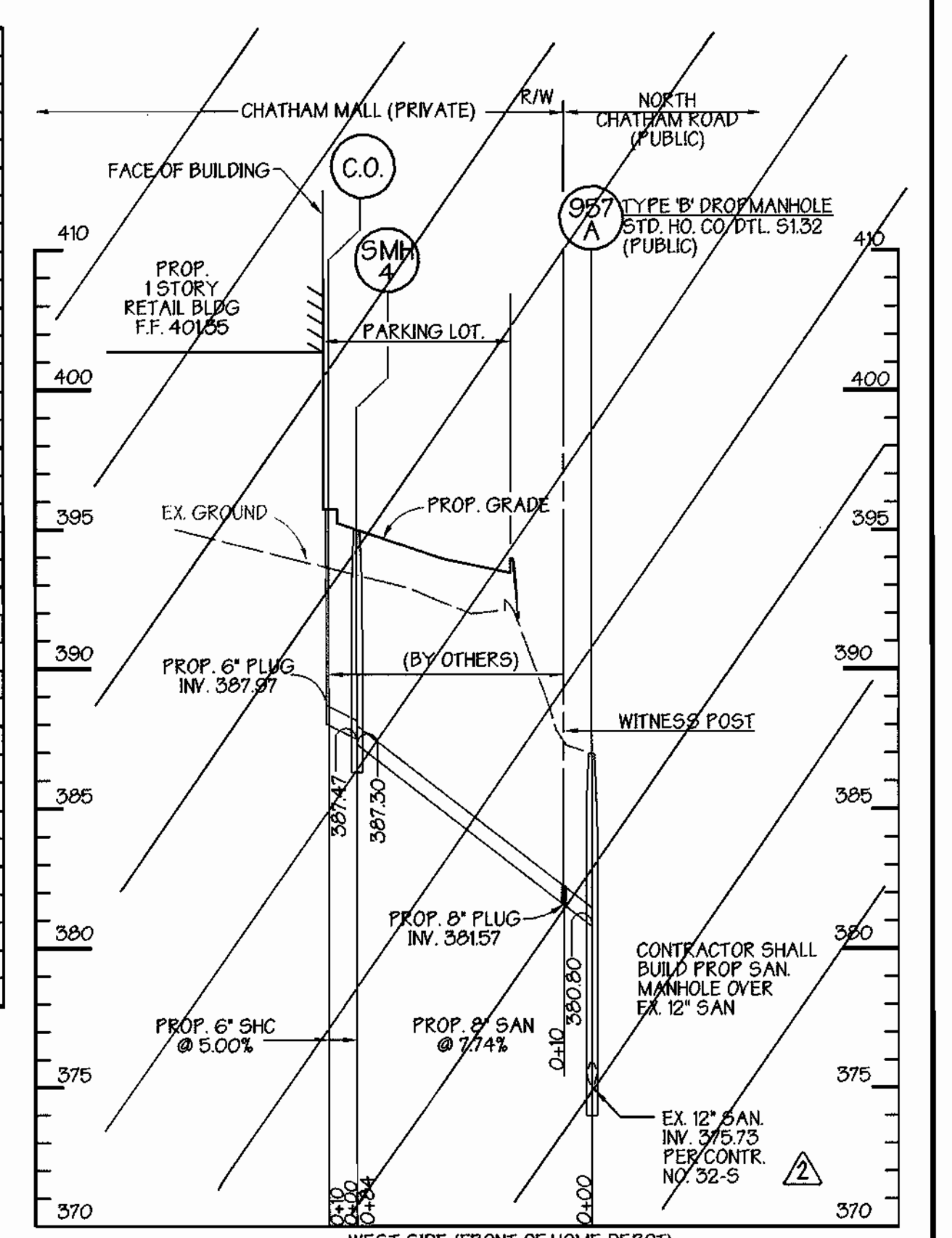
PLAN VIEW
CONTRACT NO. 14-3783-D
600 SCALE MAP NO. 24
BLOCK NO. 4&5

BY	NO.	REVISION	DATE
GWS	1	RELOCATED INSIDE WATER METER SETTING FOR HOME DEPOT, ADDED STORM DRAINS, SEWER HOUSE CONNECTIONS AND REVISED CANOPY IN FRONT OF HOME DEPOT AND REVISED PARKING LAYOUT.	9.13.1999

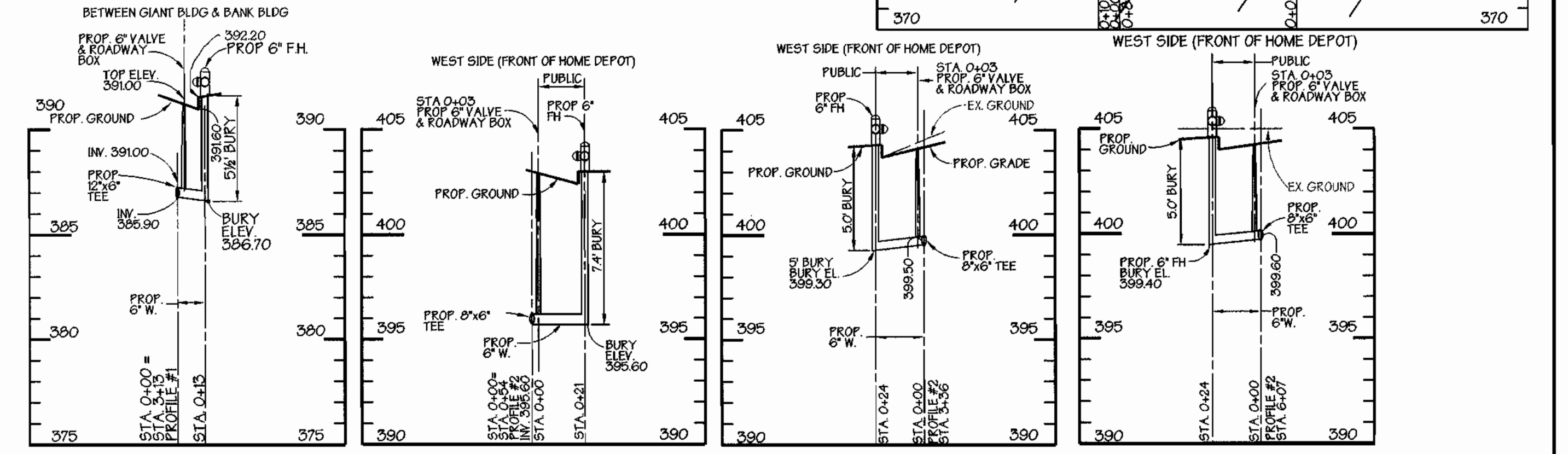
PUBLIC WATER & SEWER PLAN
CHATHAM MALL PARCEL 'A'
CONTRACT NO. 14-3783-D
ELECTION DISTRICT : 2
HOWARD CO., MARYLAND
SHT. 3 OF 5
SCALE : As Shown
DATE : MAY 22, 1999
P/N 8761- publicwater.1s01



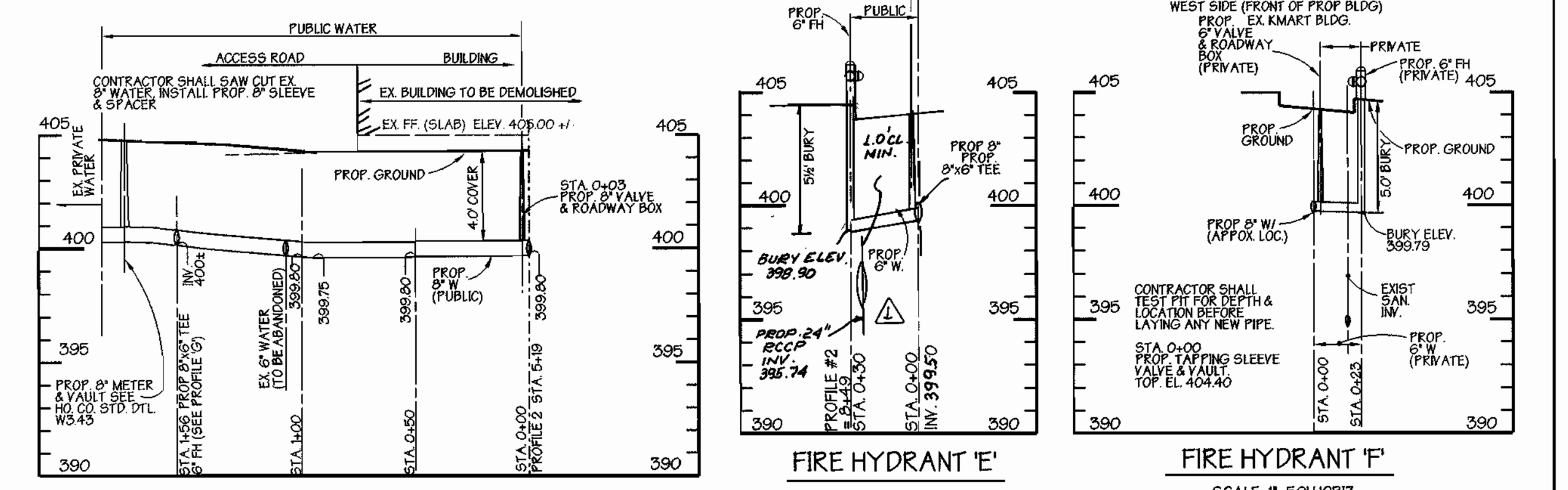
WATERMAIN PROFILE #1
SCALE: 1"=50' HORIZ
1"=5' VERT



WATERMAIN PROFILE #2
SCALE: 1"=50' HORIZ
1"=5' VERT



FIRE HYDRANT 'A' SCALE: 1"=50' HORIZ 1"=5' VERT
FIRE HYDRANT 'B' SCALE: 1"=50' HORIZ 1"=5' VERT
FIRE HYDRANT 'C' SCALE: 1"=50' HORIZ 1"=5' VERT
FIRE HYDRANT 'D' SCALE: 1"=50' HORIZ 1"=5' VERT



WATERMAIN PROFILE #3
SCALE: 1"=50' HORIZ
1"=5' VERT

FIRE HYDRANT 'E' SCALE: 1"=50' HORIZ 1"=5' VERT
FIRE HYDRANT 'F' SCALE: 1"=50' HORIZ 1"=5' VERT

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED *John P. Klutner* 6/8/99
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Chief Simmons 6/8/99
U.S. SOIL CONSERVATION SERVICE, DATE

OWNER/DEVELOPER
CHATHAM MALL COMPANY LLP
9200 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 465-8435

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert B. ... 6-9-99
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
Chief Simmons 6/8/99
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




DESIGNED BY: D.A.G./K.E.
DRAWN BY: D.A.G./P.T.
CHECKED BY: V.Z.

PROFILES
CONTRACT NO. 14-3783-D
600 SCALE MAP NO. 24
BLOCK NO. 4&5

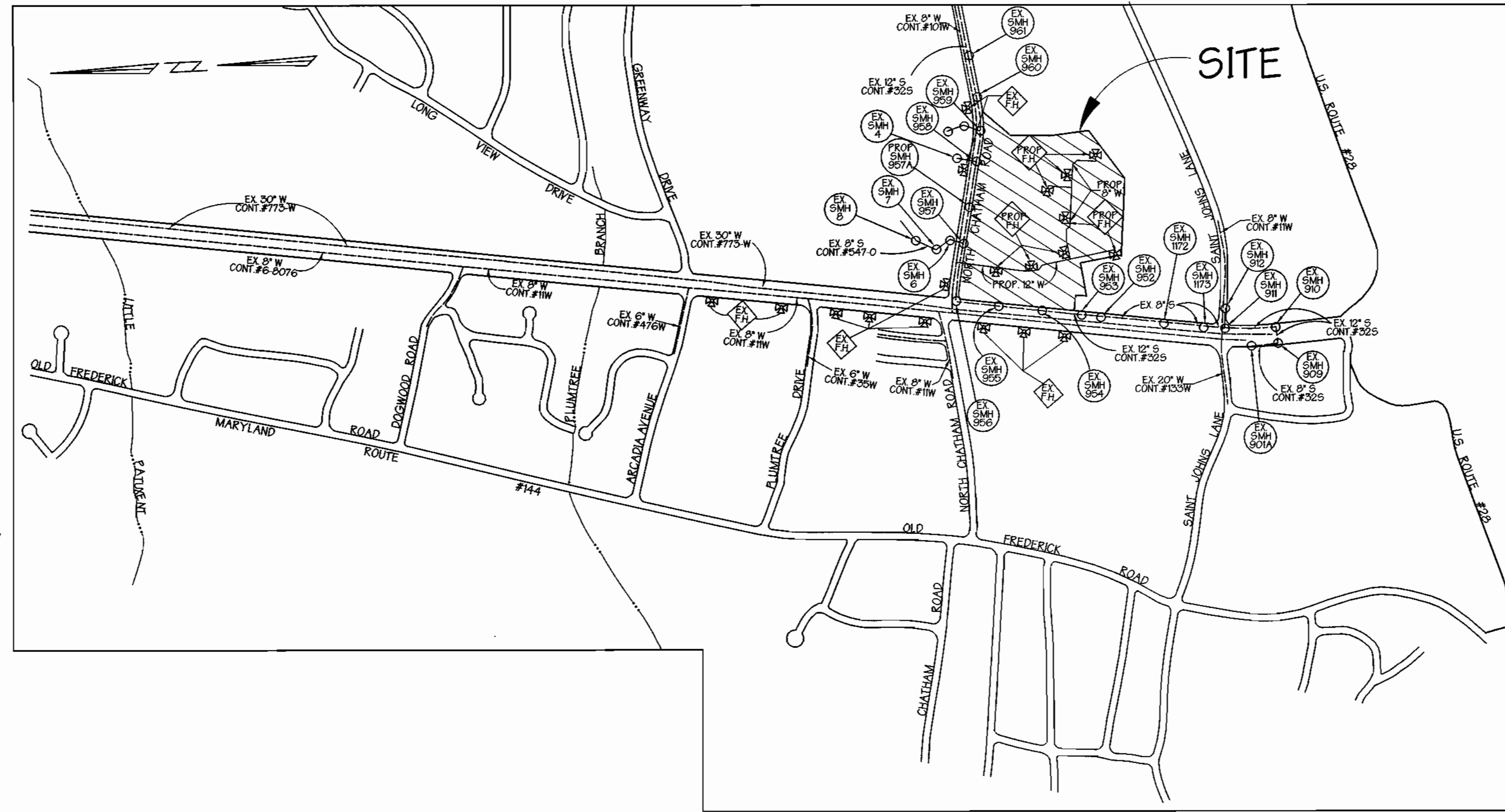
BY	NO.	REVISION	DATE
GWS	1	REVISED WATER PROFILES DUE TO CHANGES ON SHEET	9.13.99
GWS	2	3 OF 5	
GWS	3	REMOVED SANITARY CONNECTION TO RETAIL BUILDING FROM THIS CONTRACT AND ADDED TO SDP 99-100	OCTOBER 9, 1999

PUBLIC WATER & SEWER PROFILES
CHATHAM MALL PARCEL 'A'
CONTRACT NO. 14-3783-D
ELECTION DISTRICT: 2
HOWARD CO., MARYLAND
SHT. 4 OF 5
SCALE: As Shown
DATE: MAY 22, 1999
P/N 8761- publicwaterprofiles.s01

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 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
Baltimore Gas & Electric Co. Contractor Services	850-4620
Baltimore Gas & Electric Co. Underground Damage Control	787-9068
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 tees shall be strapped to tees.
- 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 set 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 sewer mains shall be D.I.P. or P.V.C., unless otherwise noted.
- All manholes shall be 4'-0" inside diameter unless otherwise noted.
- Manholes to be precast concrete structure.
- Manholes shown with 12" and 16" area are for brick manholes only.



LOCATION MAP

SCALE: 1" = 600'

TYPE OF BLDGS : SHOPPING CENTER
 NO. OF LOTS : 1
 NO. OF WATER H.C. : 6
 NO. OF SEWER H.C. : 0
 DRAINAGE AREA : LITTLE PATUXENT
 WATER CODE : F06
 SEWER CODE : 1404100, 1403700
 TEST GRADIENT ELEV. : 700
 TREATMENT PLANT : LITTLE PATUXENT WATER RECLAMATION PLANT SAVAGE, HOWARD COUNTY

WATER & SEWER CONSTRUCTION PLANS CHATHAM MALL PARCEL 'A'

2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND

CONTRACT NO. 14-3783-D

BENCH MARK ELEV. 117.4098

N17814.6906
E 414293.0309

DESCRIPTION
CONC. MONUMENT 18' SOUTH OF SOUTH EDGE OF ROUTE 40 EAST (TRAFFIC LANE) 150' EAST END OF SUNOCO STATION OPPOSITE DOCTOR'S BUILDING 150' BELOW THE SURFACE.

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/ SUPPLIER
12" DP Water Main	1,168 L.F.	1160	TYTON JT	U.S. PIPE & FOUNDRY
8" DP Water Main	1,040 L.F.	1096	"	"
6" DP Water Main	173 L.F.	227	"	"
4" D.I.P. Water Main	60 L.F.	4	"	U.S. PIPE & FOUNDRY
2" COPPER "K"	25 L.F.	16	"	READING TUBE
1" COPPER "K"	62 L.F.	60	"	READING TUBE
Fire Hydrants	8 Each	8	TYTON JT	MUELLER CO.
12"x8" TEE	2 Each	3	DUCTILE	U.S. PIPE & FOUNDRY
12"x6" TEE	2 Each	3	"	"
12"x4" TEE	1 Each	1	"	"
8"x8" TEE	1 Each	1	"	"
8"x6" TEE	5 Each	9	"	U.S. PIPE & FOUNDRY
12" VALVE AND ROADWAY BOX	1 Each	1	"	MUELLER CO.
8" VALVE AND ROADWAY BOX	5 Each	9	"	"
6" VALVE AND ROADWAY BOX	8 Each	10	"	MUELLER CO.
4" VALVE AND ROADWAY BOX	1 Each	1	"	MUELLER CO.
8" x 12" Insealer	1 Each	1	"	U.S. PIPE & FOUNDRY
8" x 8" Tapping Sleeve	1 Each	1	"	MUELLER CO.
1" Meter & Vault (Ho.Co. Std. Dtl. W3.33)	1 Each	1	"	"
2" Meter & Vault (Ho.Co. Std. Dtl. W3.34)	1 Each	1	"	LARGE SECTIONAL VAULT
3" Meter & Vault (Ho.Co. Std. Dtl. W3.35)	1 Each	1	"	MAYER BROS.
8" Meter & Vault (Ho.Co. Std. Dtl. W3.37)	2 Each	2	"	MAYER BROS.
12" x 1/2" HORIZ. & VERTICAL BEND	2 EACH	2	"	U.S. PIPE & FOUNDRY
4-12" x 1/2" VERT. BENDS	4 EACH	4	DUCTILE	"
12" x 1/2" HORIZONTAL BEND		2	"	"
8" x 1/2" HORIZONTAL BEND		4	"	"
8" x 10" VERT. OFFSET FITTING		1	"	"
4" x 3" REDUCER		2	"	"
3" O.I.P. WATER MAIN		14	"	"
6" - 1/4" HORIZONTAL BEND		4	DUCTILE	U.S. PIPE & FOUNDRY

NAME OF UTILITY CONTRACTOR: CHESAPEAKE SITE CONTRACTING, INC.

SURVEY AND DRAFTING DIVISION AS-BUILT DATE:

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED:  6/18/99
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

 6/18/99
U.S. SOIL CONSERVATION SERVICE DATE

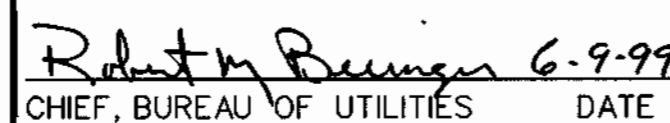
OWNER/DEVELOPER

CHATHAM MALL COMPANY LLP
9200 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 465-8435

INDEX OF SHEETS

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

 6-9-99
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

 6/18/99
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



DESIGNED BY: D.A.G., K.E.
DRAWN BY: D.A.G., P.T.
CHECKED BY: V.Z.

COVER SHEET, GENERAL NOTES & LOCATION MAP

CONTRACT NO. 14-3783-D

600 SCALE MAP NO. 24

BLOCK NO. 4&5

PUBLIC WATER & SEWER MAIN

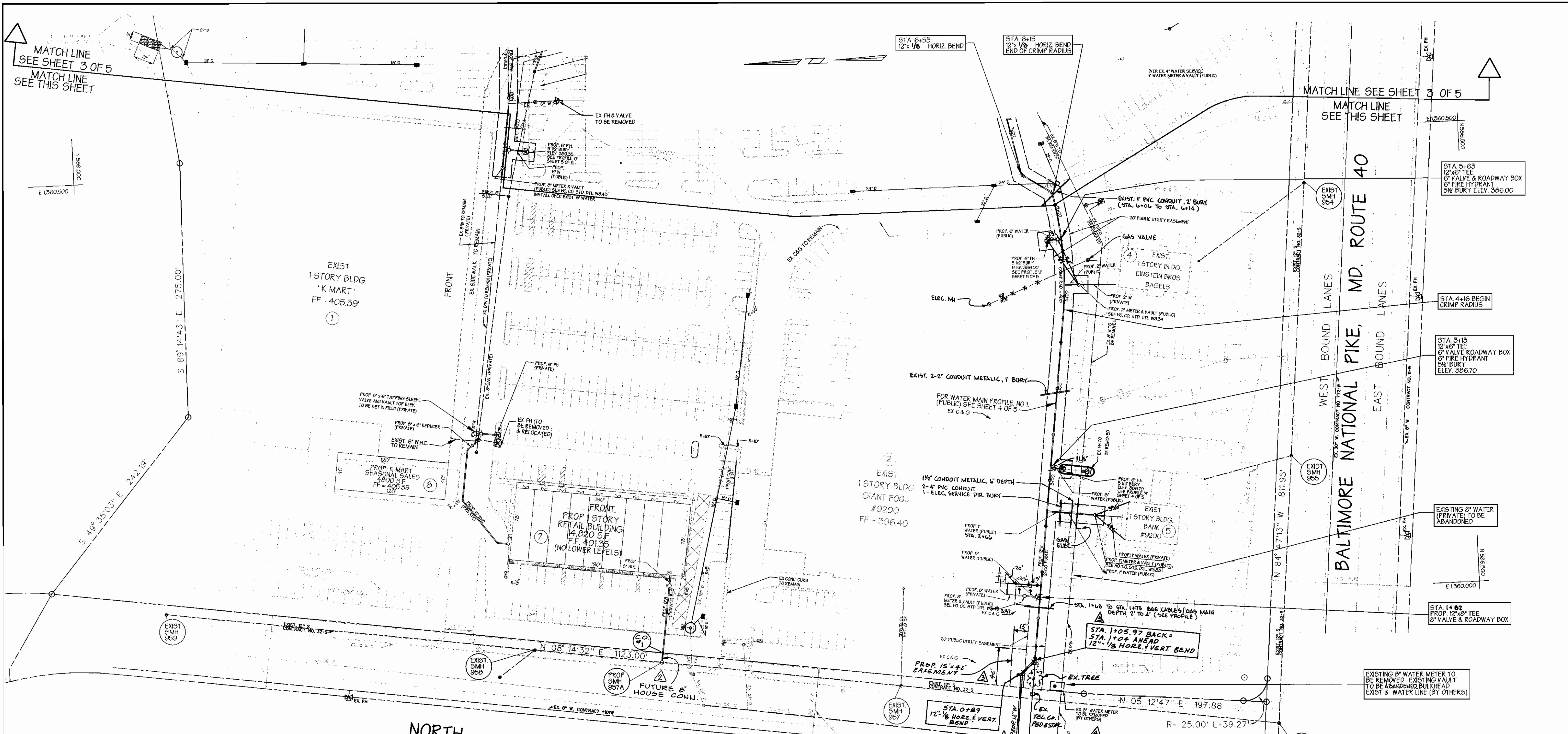
CHATHAM MALL PARCEL 'A'

CONTRACT NO. 14-3783-D

ELECTION DISTRICT : 2
HOWARD CO., MARYLAND

SHT. 1 OF 5

SCALE: As Shown
DATE: MAY 22, 1999



SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED: *[Signature]* 6/19/99
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
[Signature] 6/19/99
L.S. SOIL CONSERVATION SERVICE DATE

PLAN
SCALE: 1" = 50'

OWNER/DEVELOPER
CHATHAM MALL COMPANY LLP
9200 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 465-8435

NORTH CHATHAM ROAD

CHATHAM LIMITED PARTNERSHIP
DEED LIBER 767 FOLIO 654
SECTION ONE
CHATHAM GARDEN APARTMENTS
PARCEL A-1
PLAT # 3978

BY	NO.	REVISION	DATE
GWS	1	ADDED EX. 54' D NORTH CHATHAM ROAD AT WATER CROSSING	JANUARY 12, 2000

BY	NO.	REVISION	DATE
GWS	1	REMOVED SANITARY CONNECTION TO RETAIL BUILDING FROM THIS CONTRACT AND ADDED TO SDP 99-100	OCTOBER 5, 1999
GWS	2	REVISED LOCATION OF 12" W. NORTH CHATHAM ROAD. ADDED 15' x 42' EASEMENT	NOVEMBER 22, 1999

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 6-9-99
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

[Signature] 6/19/99
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



DESIGNED BY: D.A.G. / K.E.
DRAWN BY: D.A.G., P.T.
CHECKED BY: V.Z.

PLAN VIEW

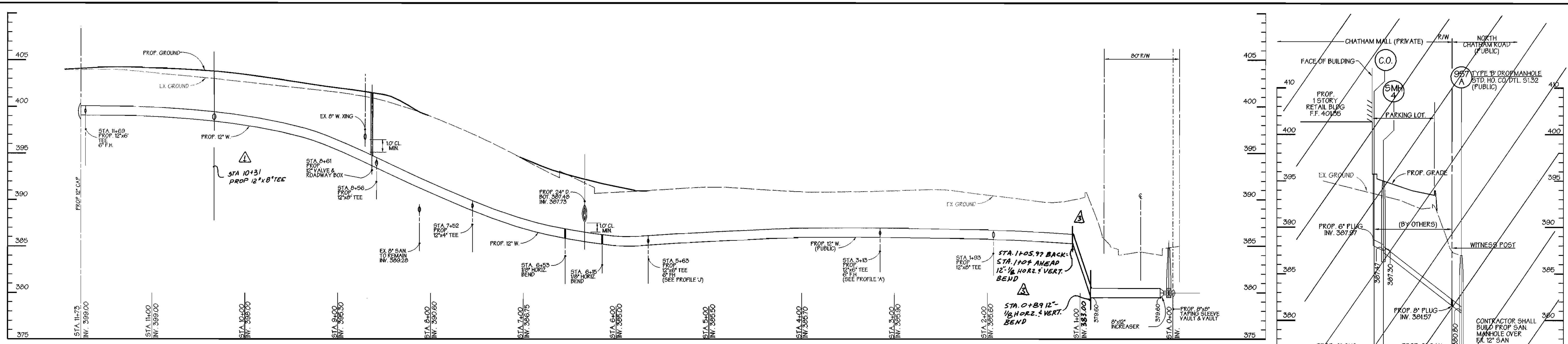
CONTRACT NO. 14-3783-D
600 SCALE MAP NO. 24
BLOCK NO. 4&5

PUBLIC WATER & SEWER PLAN
CHATHAM MALL PARCEL 'A'
CONTRACT NO. 14-3783-D

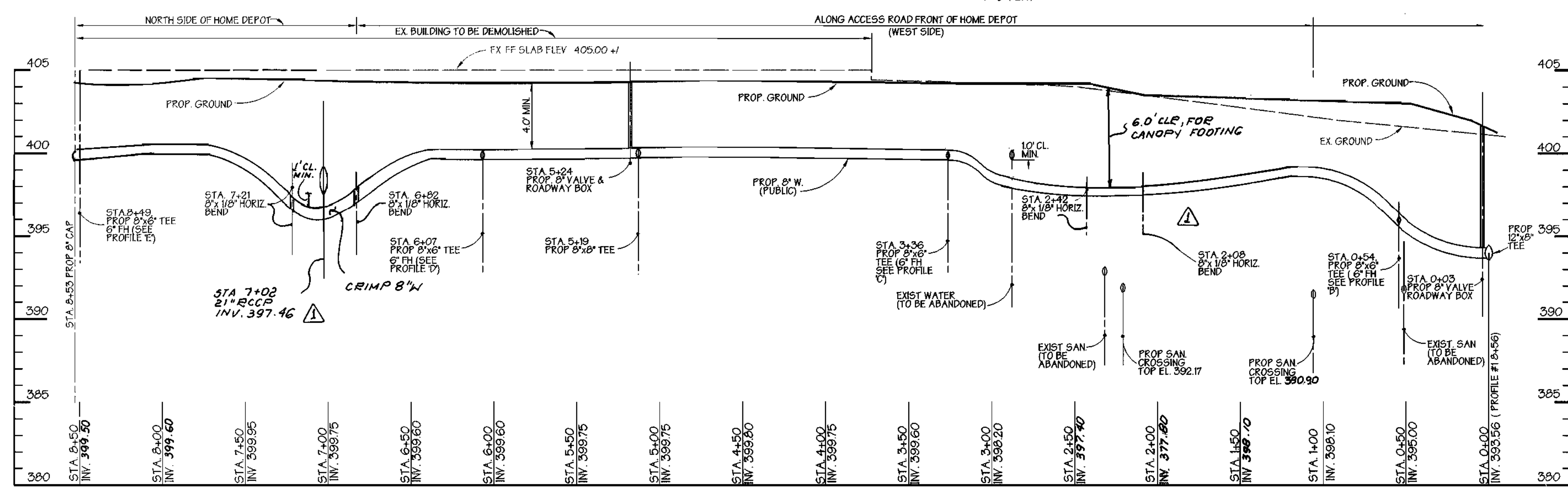
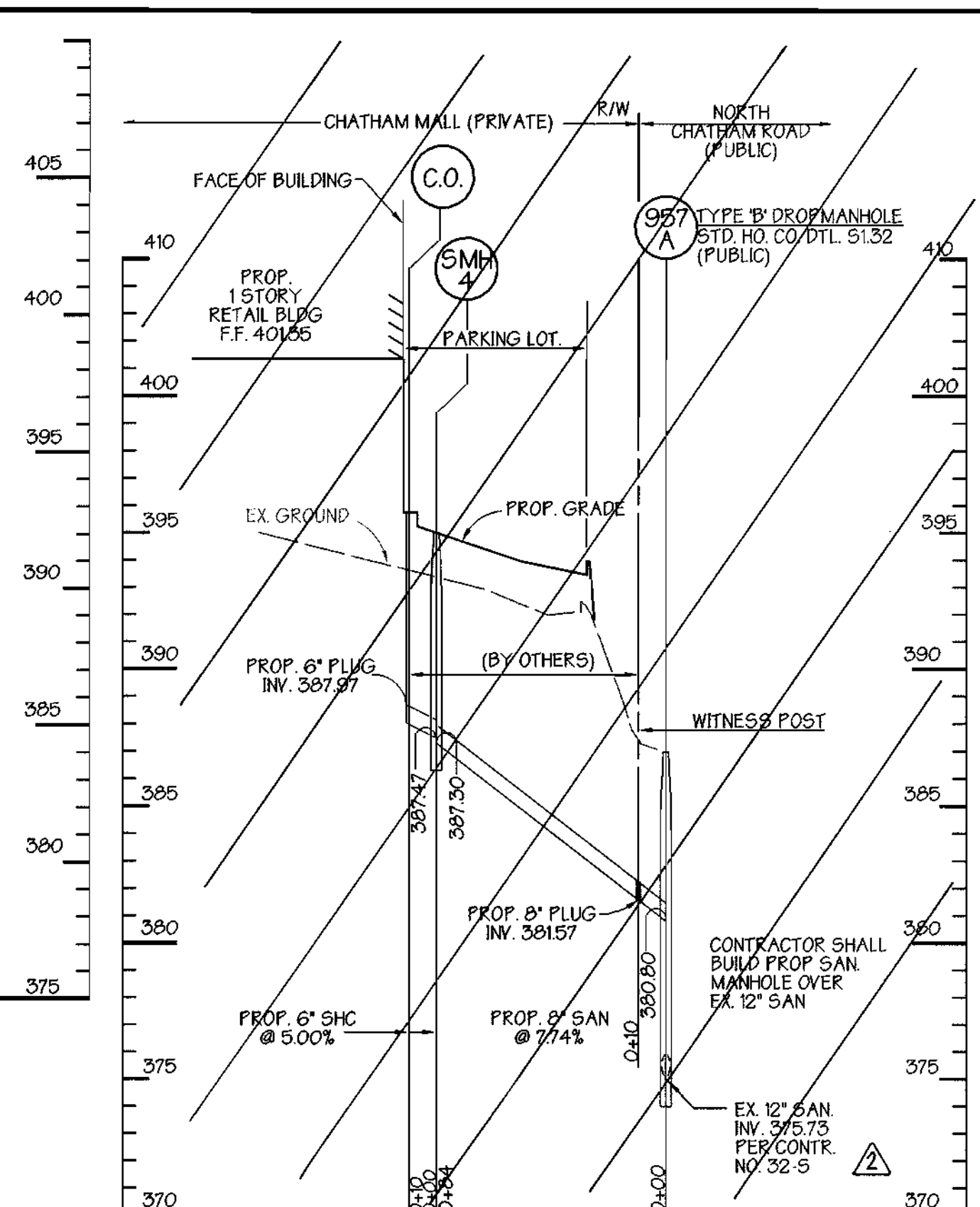
ELECTION DISTRICT: 2
HOWARD CO. MARYLAND

SCALE: As Shown
DATE: MAY 22, 1999

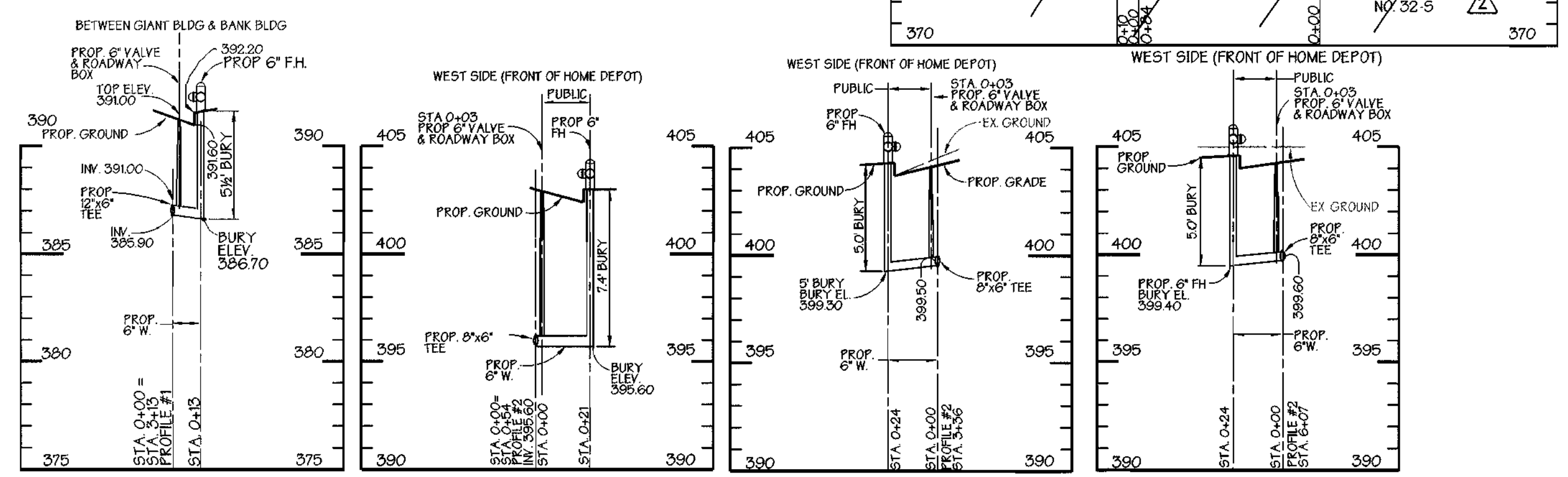
SHT. 2 OF 5
P/N 8761- publicwater1.s01



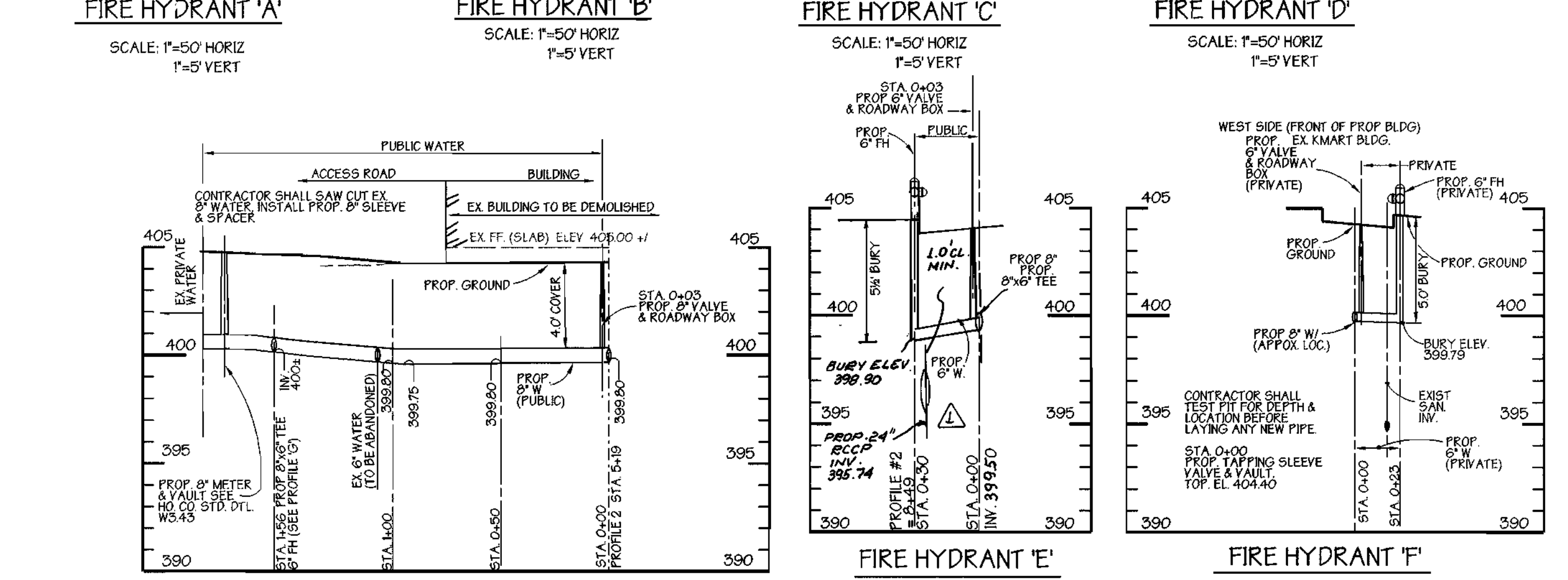
WATERMAIN PROFILE #1
SCALE: 1"=50' HORIZ
1"=5' VERT



WATERMAIN PROFILE #2
SCALE: 1"=50' HORIZ
1"=5' VERT



FIRE HYDRANT 'A' SCALE: 1"=50' HORIZ 1"=5' VERT
FIRE HYDRANT 'B' SCALE: 1"=50' HORIZ 1"=5' VERT
FIRE HYDRANT 'C' SCALE: 1"=50' HORIZ 1"=5' VERT
FIRE HYDRANT 'D' SCALE: 1"=50' HORIZ 1"=5' VERT



WATERMAIN PROFILE #3
SCALE: 1"=50' HORIZ
1"=5' VERT

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED: *John P. Platon* 6/8/99
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Cheryl Simmons 6/8/99
U.S. SOIL CONSERVATION SERVICE DATE

OWNER/DEVELOPER
CHATHAM MALL COMPANY LLP
9200 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 465-8435

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert Benner 6-9-99
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
Cheryl Simmons 6/9/99
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

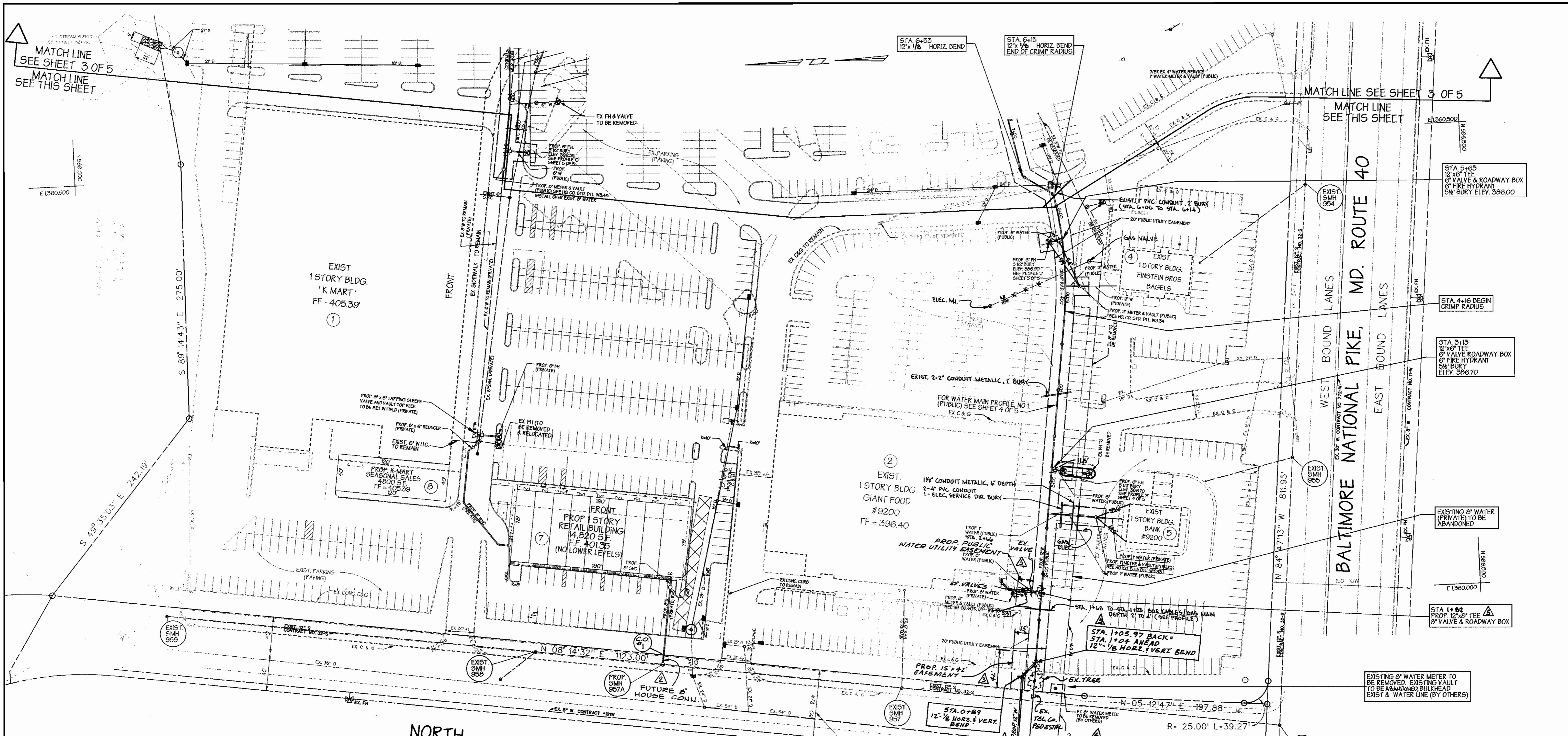


DESIGNED BY: D.A.G./K.E.
DRAWN BY: D.A.G./P.T.
CHECKED BY: V.Z.

PROFILES
CONTRACT NO. 14-3783-D
600 SCALE MAP NO. 24 BLOCK NO. 4&5

BY	NO.	REVISION	DATE
GWS	1	REVISED WATER MAIN PROFILES DUE TO CHANGES ON SHEET 3 OF 5	9.13.99
GWS	2	REMOVED SANITARY CONNECTION TO RETAIL BUILDING FROM THIS CONTRACT AND ADDED TO SDP 99-100	OCTOBER 5, 1999
GWS	3	REVISED WATERMAIN PROFILE NO. 1	NOVEMBER 22, 1999

PUBLIC WATER & SEWER PROFILES
CHATHAM MALL PARCEL 'A'
CONTRACT NO. 14-3783-D
ELECTION DISTRICT: 2 HOWARD CO., MARYLAND
SCALE: As Shown DATE: MAY 22, 1999
SHT. 4 OF 5
P/N 8761- publicwaterprofiles.s01



SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED: *[Signature]* 6/19/99
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

[Signature] 6/19/99
L.S. SOIL CONSERVATION SERVICE DATE

PLAN
SCALE: 1" = 50'

NORTH

CHATHAM ROAD

CHATHAM LIMITED PARTNERSHIP
DEED LIBER 767 FOLIO 654
SECTION ONE
"CHATHAM GARDEN APARTMENTS"
PARCEL A-1
PLAT # 3976

OWNER/DEVELOPER
CHATHAM MALL COMPANY LLP
9200 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 465-8435

DESIGNED BY: D.A.G./K.E.
DRAWN BY: D.A.G., P.T.
CHECKED BY: V.Z.

PLAN VIEW

CONTRACT NO. 14-3783-D
600 SCALE MAP NO. 24
BLOCK NO. 4&5

BY	NO.	REVISION	DATE
GWS	1	ADDED EX. 54" D NORTH CHATHAM ROAD AT WATER CROSSING	JANUARY 12, 2000
GWS	2	ADDED EASEMENT EXTENSION BECAUSE OF AS-BUILT FOR 8" METER & VAULT LOCATION FOR GIANT FOOD	OCTOBER 17, 2000

BY	NO.	REVISION	DATE
GWS	3	REMOVED SANITARY CONNECTION TO RETAIL BUILDING FROM THIS CONTRACT AND ADDED TO SDP 99-100	OCTOBER 5, 1999
GWS	4	REVISED LOCATION OF 12" W. NORTH CHATHAM ROAD. ADDED 15'x42' EASEMENT	NOVEMBER 22, 1999

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 6-9-99
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

[Signature] 6/19/99
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



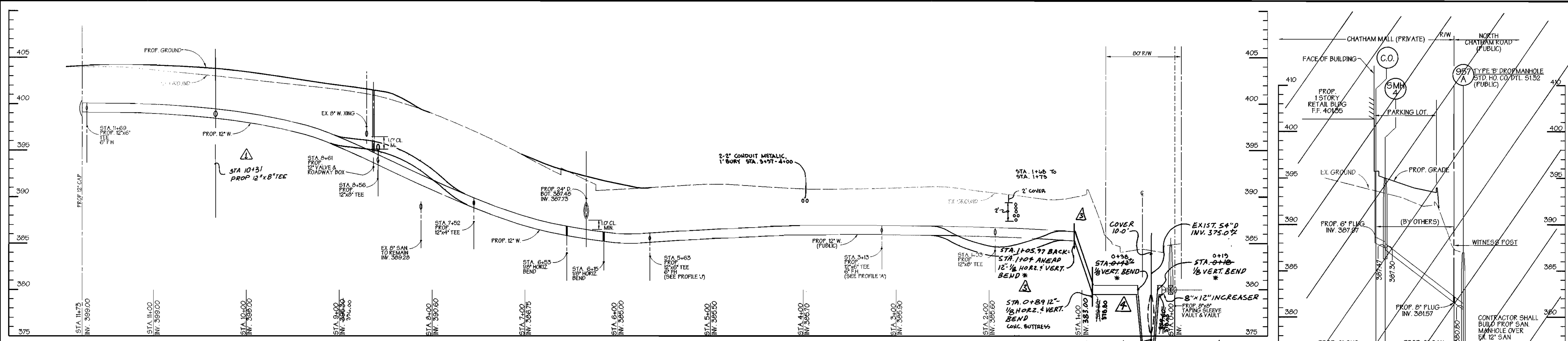
PUBLIC WATER & SEWER PLAN
CHATHAM MALL PARCEL 'A'
CONTRACT NO. 14-3783-D

ELECTION DISTRICT: 2
HOWARD CO., MARYLAND

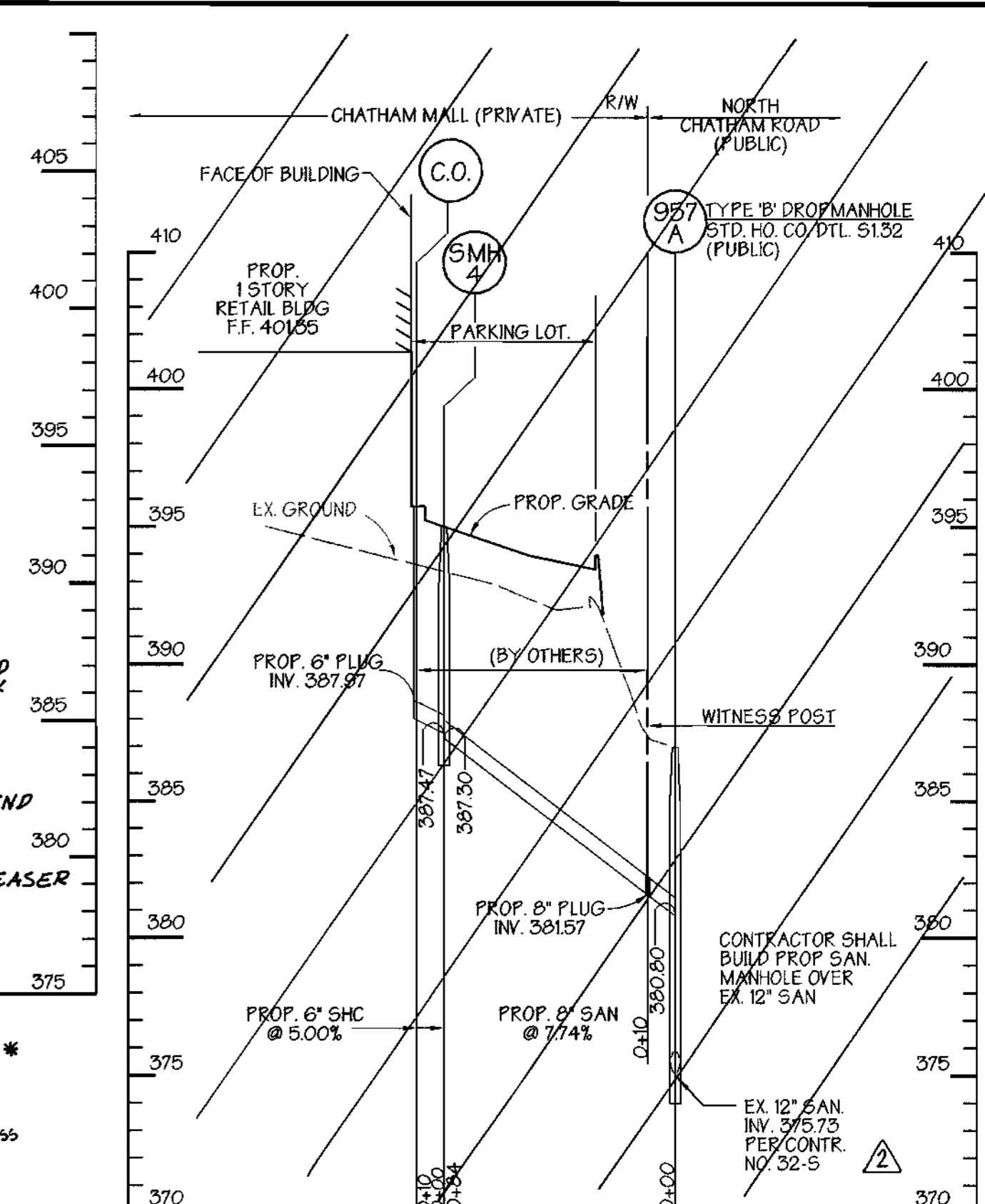
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DATE: MAY 22, 1999

P/N 8761- publicwater1.s01

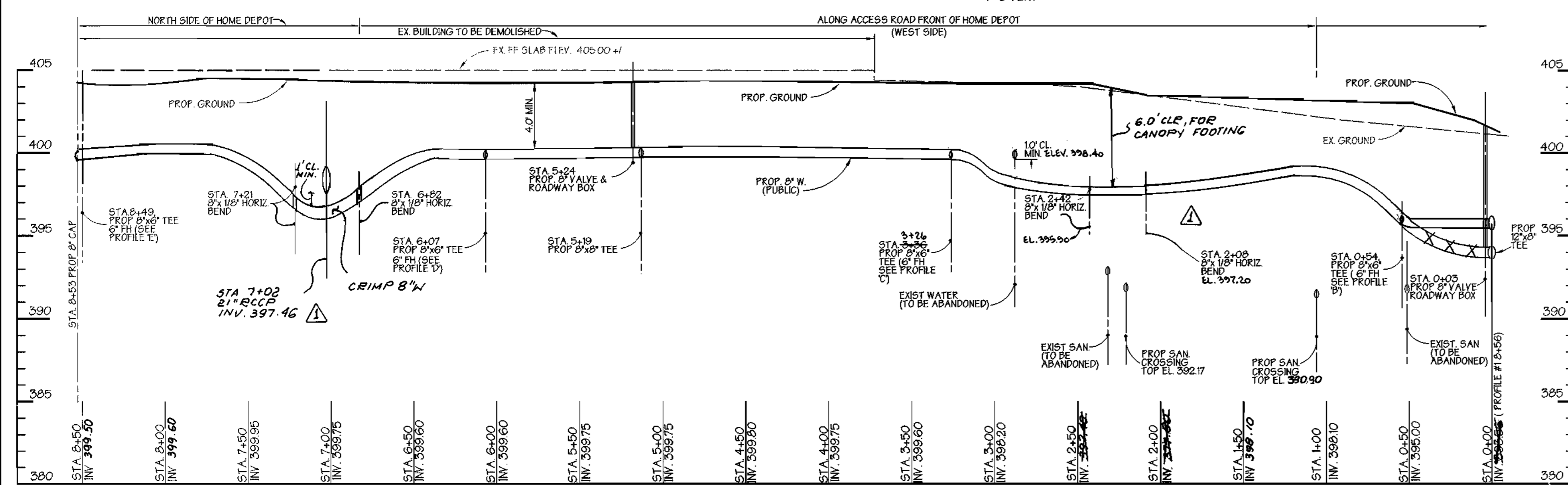
NOTE: ALL EXISTING ON SITE FIRE HYDRANTS TO BE REMOVED. EXISTING 6" VALVES TO BE TURNED OFF. EXISTING ROADWAY BOXES TO BE REMOVED.



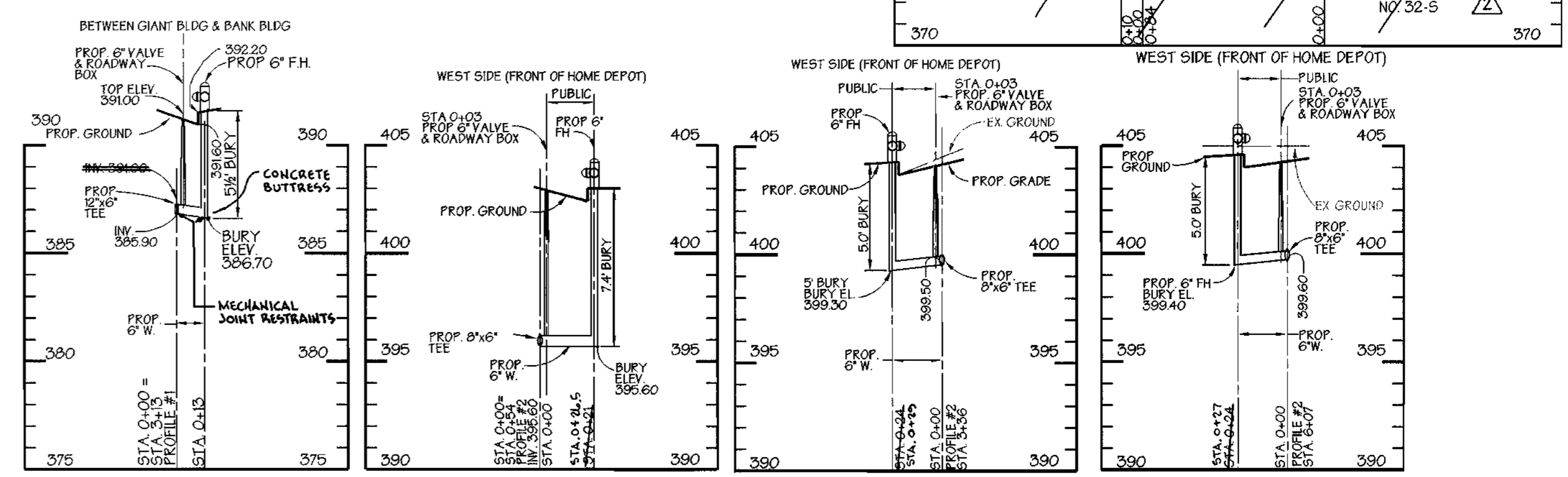
WATERMAIN PROFILE #1
SCALE: 1"=50' HORIZ
1"=5' VERT



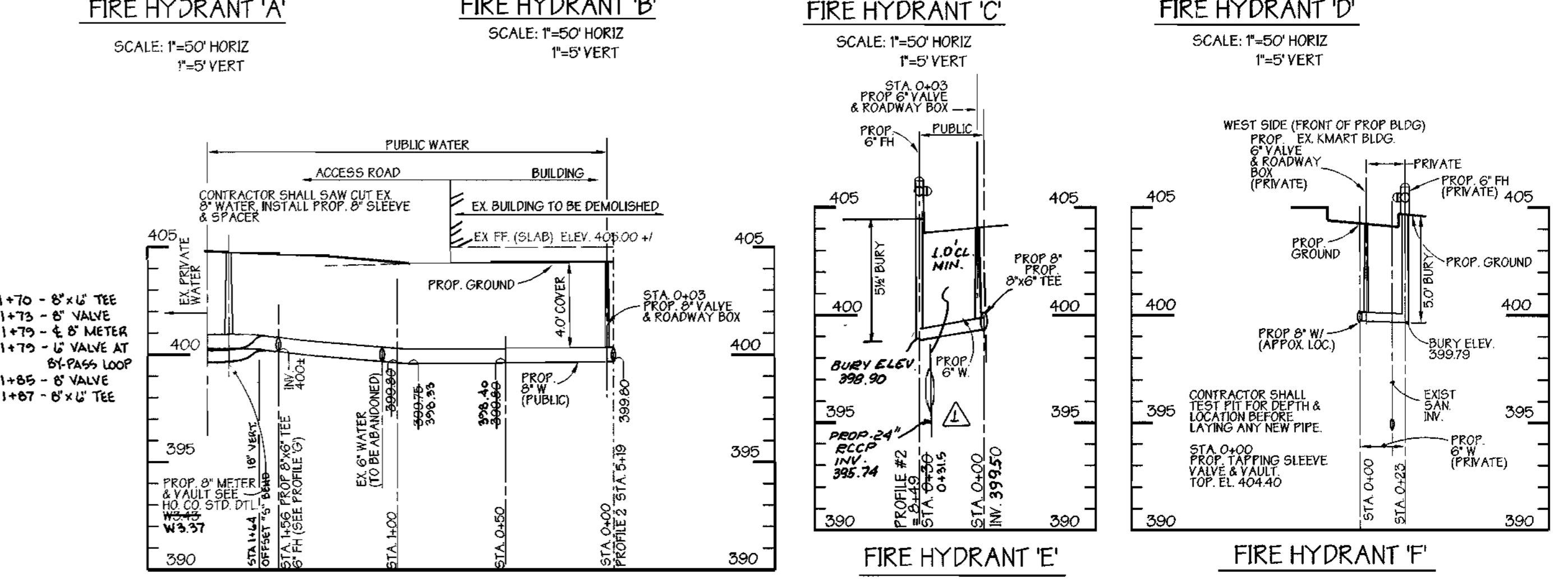
PUBLIC WATER & SEWER PROFILES
SCALE: 1"=50' HORIZ
1"=5' VERT



WATERMAIN PROFILE #2
SCALE: 1"=50' HORIZ
1"=5' VERT



FIRE HYDRANT 'A' SCALE: 1"=50' HORIZ
1"=5' VERT
FIRE HYDRANT 'B' SCALE: 1"=50' HORIZ
1"=5' VERT
FIRE HYDRANT 'C' SCALE: 1"=50' HORIZ
1"=5' VERT
FIRE HYDRANT 'D' SCALE: 1"=50' HORIZ
1"=5' VERT



WATERMAIN PROFILE #3
SCALE: 1"=50' HORIZ / 1"=5' VERT

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED: *John P. Platon* 6/8/99
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
Charles Simmons 6/8/99
U.S. SOIL CONSERVATION SERVICE, DATE

OWNER/DEVELOPER
CHATHAM MALL COMPANY LLP
9200 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 465-8435

BY	No.	REVISION	DATE	BY	No.	REVISION	DATE
G.W.S.	1	ADDED VERT. BENDS TO PROFILE #1 TO AVOID EX. 54" DRAIN	JANUARY 12, 2000	G.W.S.	1	REVISED WATER PROFILES DUE TO CHANGES ON SHEET 3 OF 5	9.13.99
				G.W.S.	2	REMOVED SANITARY CONNECTION TO RETAIL BUILDING FROM THIS CONTRACT AND ADDED TO SDP 99-100	OCTOBER 5, 1999
				G.W.S.	3	REVISED WATERMAIN PROFILE NO. 1	NOVEMBER 22, 1999

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Robert B. ... 6-9-99
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
John ... 6/8/99
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

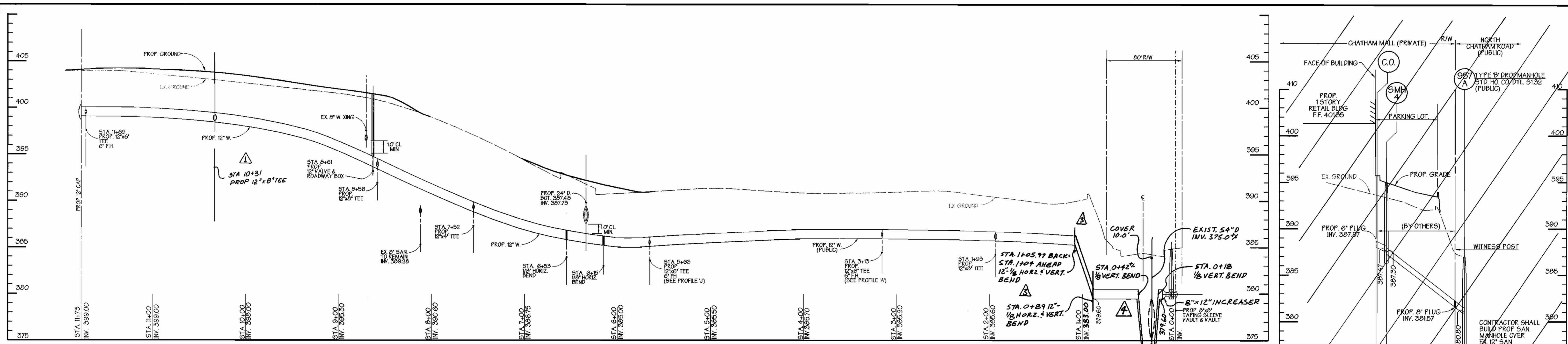
GEORGE W. STEPHENS, JR. AND ASSOCIATES, INC.
Civil Engineers and Land Surveyors
658 Kenilworth Drive, Suite 100
Towson Maryland 21204
(410) 825-8120



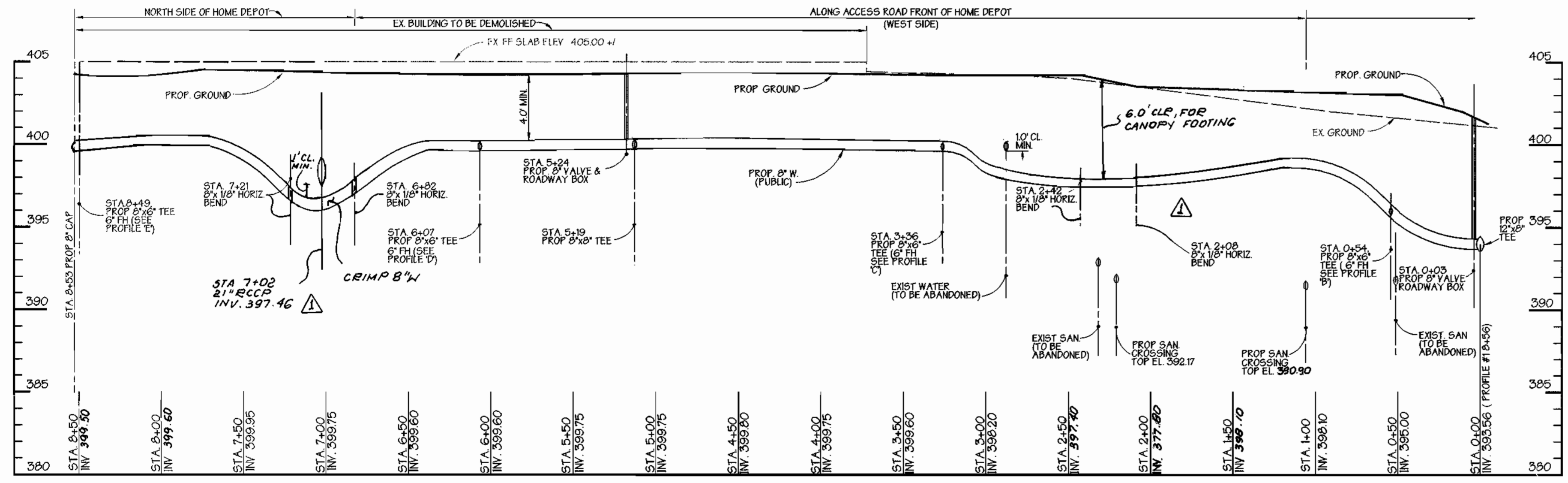
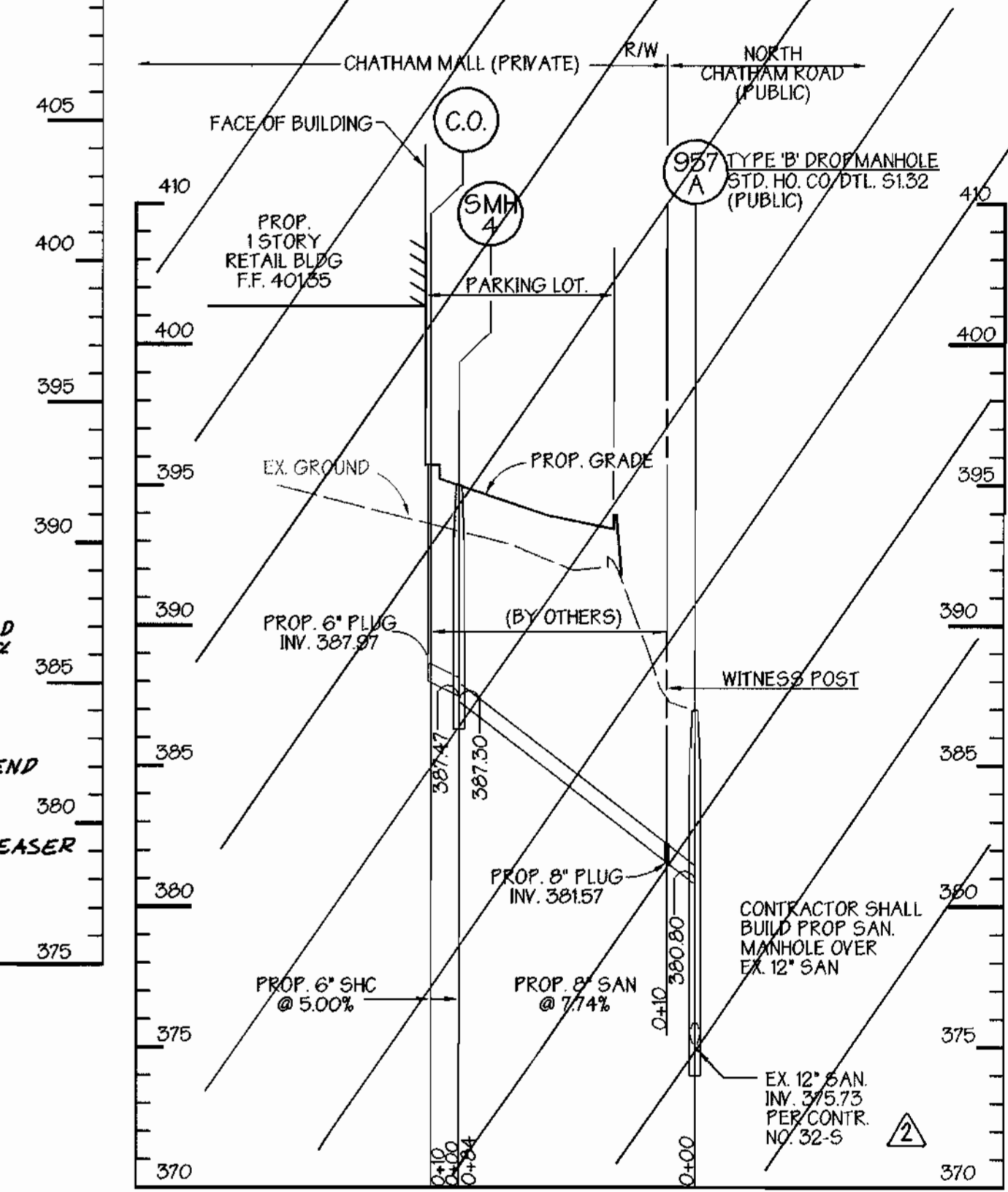
DESIGNED BY: D.A.G. / K.E.
DRAWN BY: D.A.G. / P.T.
CHECKED BY: V.Z.

PROFILES
CONTRACT NO. 14-3783-D
600 SCALE MAP NO. 24
BLOCK NO. 4&5

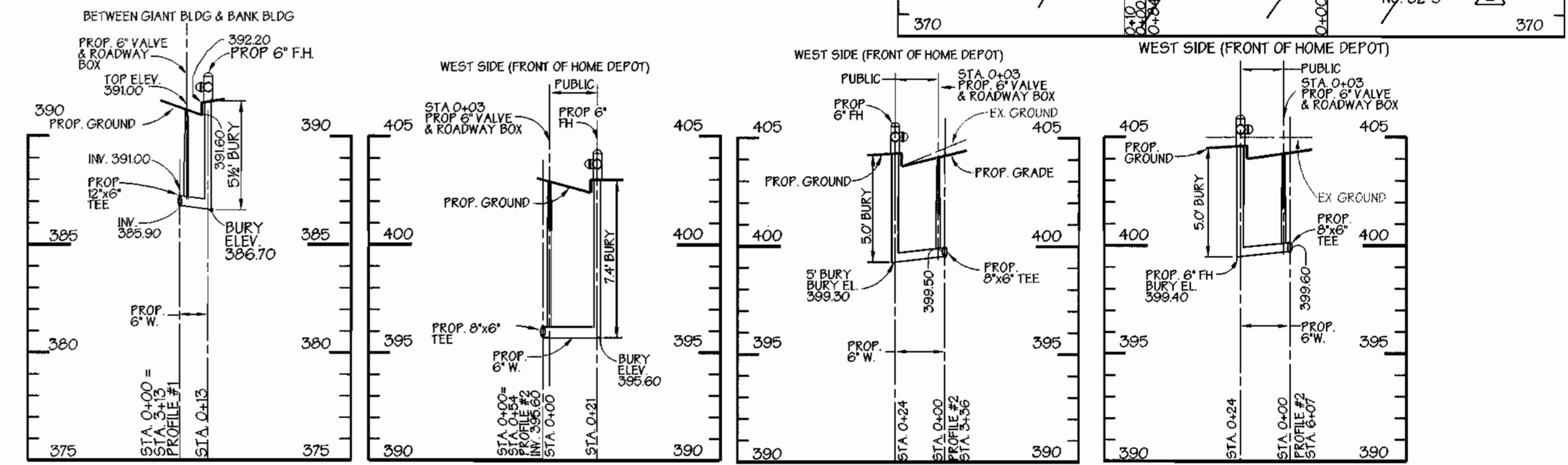
PUBLIC WATER & SEWER PROFILES
CHATHAM MALL PARCEL 'A'
CONTRACT NO. 14-3783-D
COLLECTION DISTRICT: 2
HOWARD CO., MARYLAND
SHT. 4 OF 5
SCALE: As Shown
DATE: MAY 22, 1999
P/N 8761- publicwaterprofiles.s01



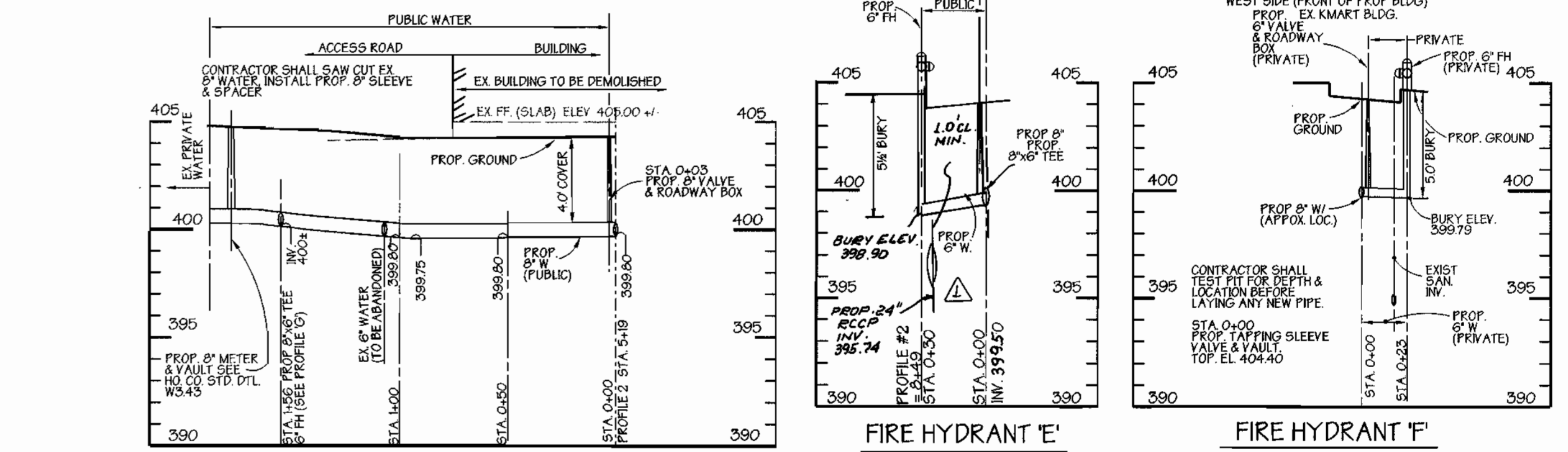
WATERMAIN PROFILE #1
SCALE: 1"=50' HORIZ
1"=5' VERT



WATERMAIN PROFILE #2
SCALE: 1"=50' HORIZ
1"=5' VERT



FIRE HYDRANT 'A' SCALE: 1"=50' HORIZ 1"=5' VERT
FIRE HYDRANT 'B' SCALE: 1"=50' HORIZ 1"=5' VERT
FIRE HYDRANT 'C' SCALE: 1"=50' HORIZ 1"=5' VERT
FIRE HYDRANT 'D' SCALE: 1"=50' HORIZ 1"=5' VERT



WATERMAIN PROFILE #3
SCALE: 1"=50' HORIZ 1"=5' VERT

FIRE HYDRANT 'E' SCALE: 1"=50' HORIZ 1"=5' VERT
FIRE HYDRANT 'F' SCALE: 1"=50' HORIZ 1"=5' VERT

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE STANDARD SPECIFICATIONS, SDP 99-100

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

APPROVED: *[Signature]* 6/8/99
HOWARD SOIL CONSERVATION DISTRICT DATE

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
[Signature] 6/8/99
U.S. SOIL CONSERVATION SERVICE DATE

OWNER/DEVELOPER
CHATHAM MALL COMPANY LLP
9200 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 465-8435

BY	No.	REVISION	DATE
GWS	A	ADDED VERT. BENDS TO PROFILE #1 TO AVOID EX. S4" DRAIN	JANUARY 12, 2000

BY	No.	REVISION	DATE
GWS	A	REVISED WATER PROFILES DUE TO CHANGES ON SHEET 3 OF 5	9.13.99
GWS	B	REMOVED SANITARY CONNECTION TO RETAIL BUILDING FROM THIS CONTRACT AND ADDED TO SDP 99-100	OCTOBER 9, 1999
GWS	A	REVISED WATERMAIN PROFILE NO. 1	NOVEMBER 22, 1999

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
[Signature] 6/9/99
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND
[Signature] 6/9/99
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



DESIGNED BY: D.A.G. / K.E.
DRAWN BY: D.A.G. / P.T.
CHECKED BY: V.Z.

PROFILES
CONTRACT NO. 14-3783-D
600 SCALE MAP NO. 24
BLOCK NO. 4&5

PUBLIC WATER & SEWER PROFILES
CHATHAM MALL PARCEL 'A'
CONTRACT NO. 14-3783-D
ELECTION DISTRICT: 2
HOWARD CO., MARYLAND
SHT. 4 OF 5
SCALE: As Shown
DATE: MAY 22, 1999