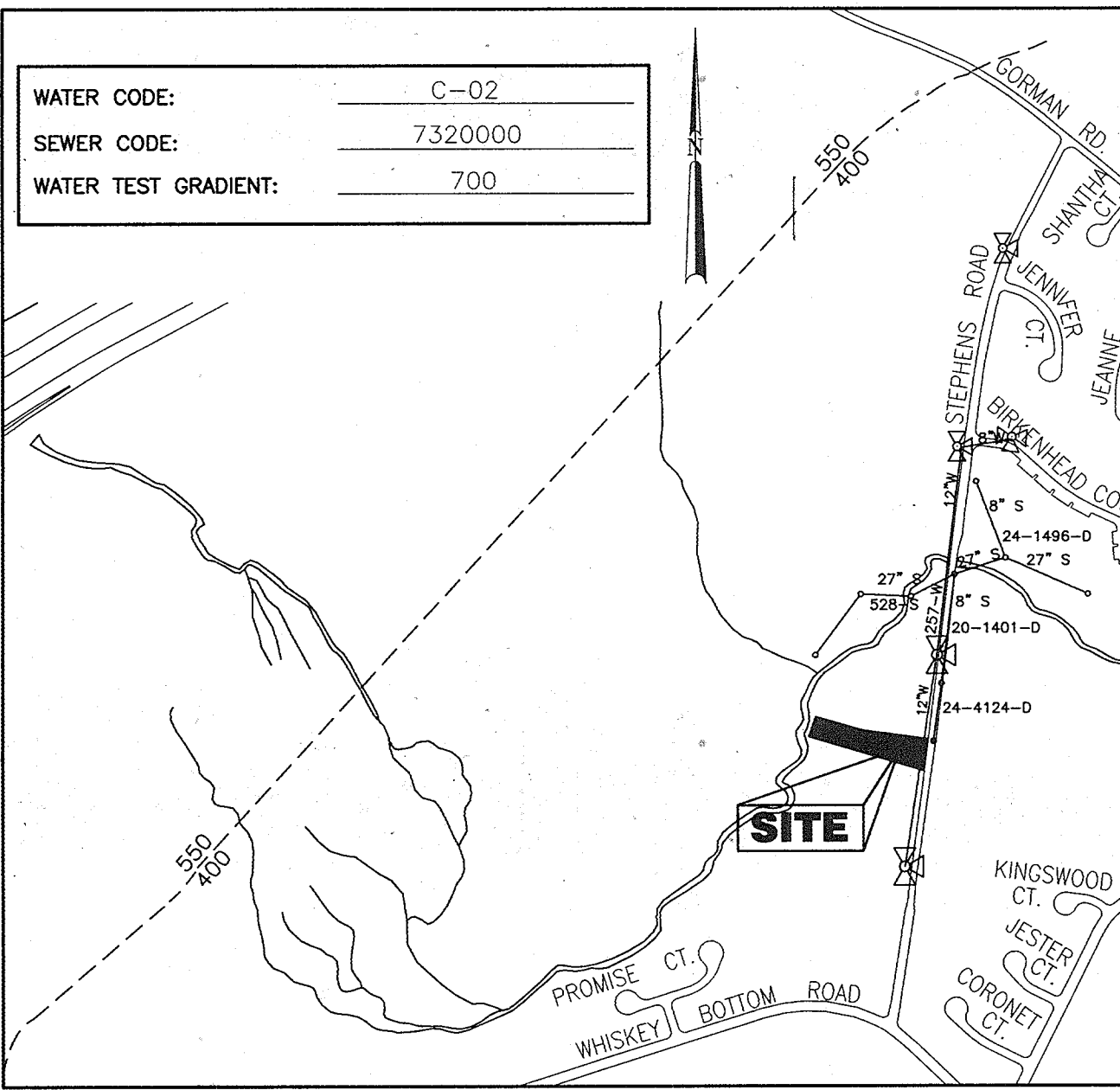
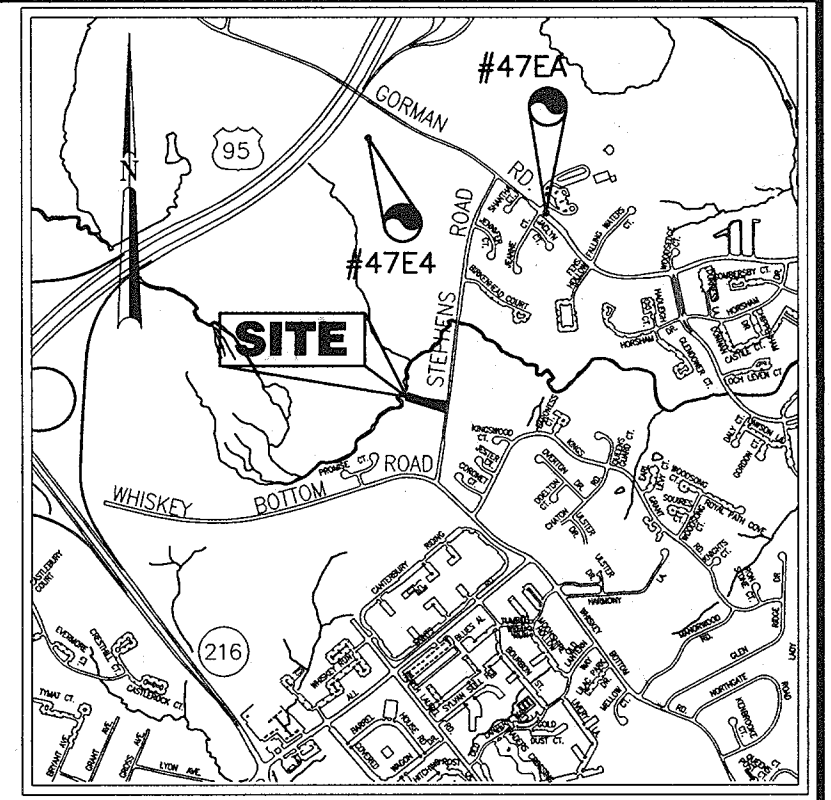


HAMMONDS VIEW LOTS 1-2 AND OPEN SPACE LOT 3 PUBLIC SEWER PLAN CONTRACT NO. 24-4124-D STEPHENS ROAD



LEGEND

- Property Line
- Existing Treenline
- Ex. Evergreen for Landscape Credit
- Ex. Tree to be Removed
- Proposed Tree
- Existing Water Main
- Existing Sanitary Sewer
- Proposed Sanitary Sewer
- Direction of Flow



BENCHMARKS
 HOWARD COUNTY CONTROL TRAVERSE NO. 47EA
 N 535,063.631 E 1,357,283.989 ELEV. 314.589'
 HOWARD COUNTY CONTROL TRAVERSE NO. 47E4
 N 535,846.138 E 1,355,431.199 ELEV. 338.224'

Type of Building : SINGLE FAMILY DETACHED
 No. of Lots/Parcels : 3
 No. of single Water House Connections : 2
 No. of Sewer House Connections : 2
 Drainage Area : LITTLE PATUXENT
 Treatment Plant : WATER RECLAMATION PLANT

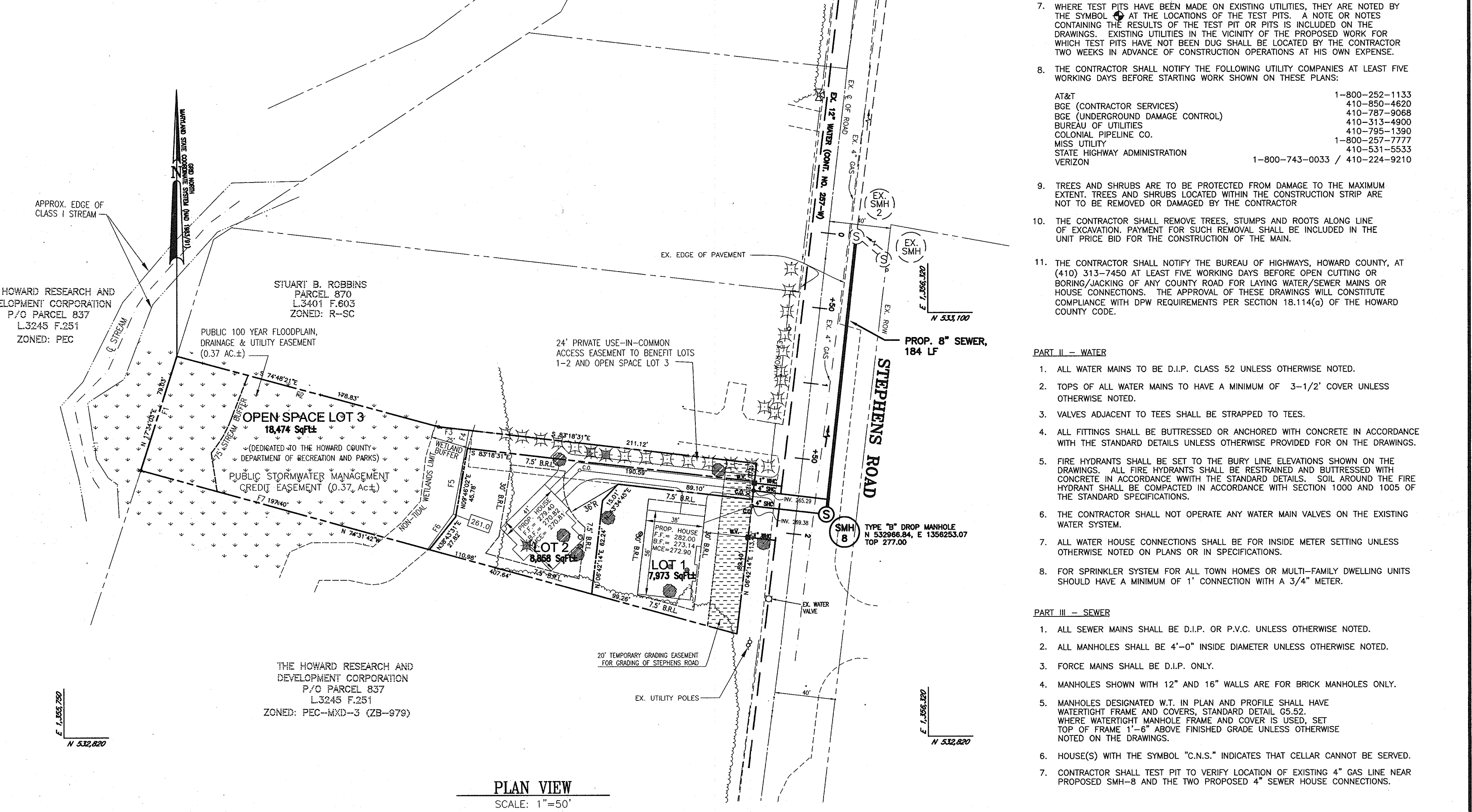
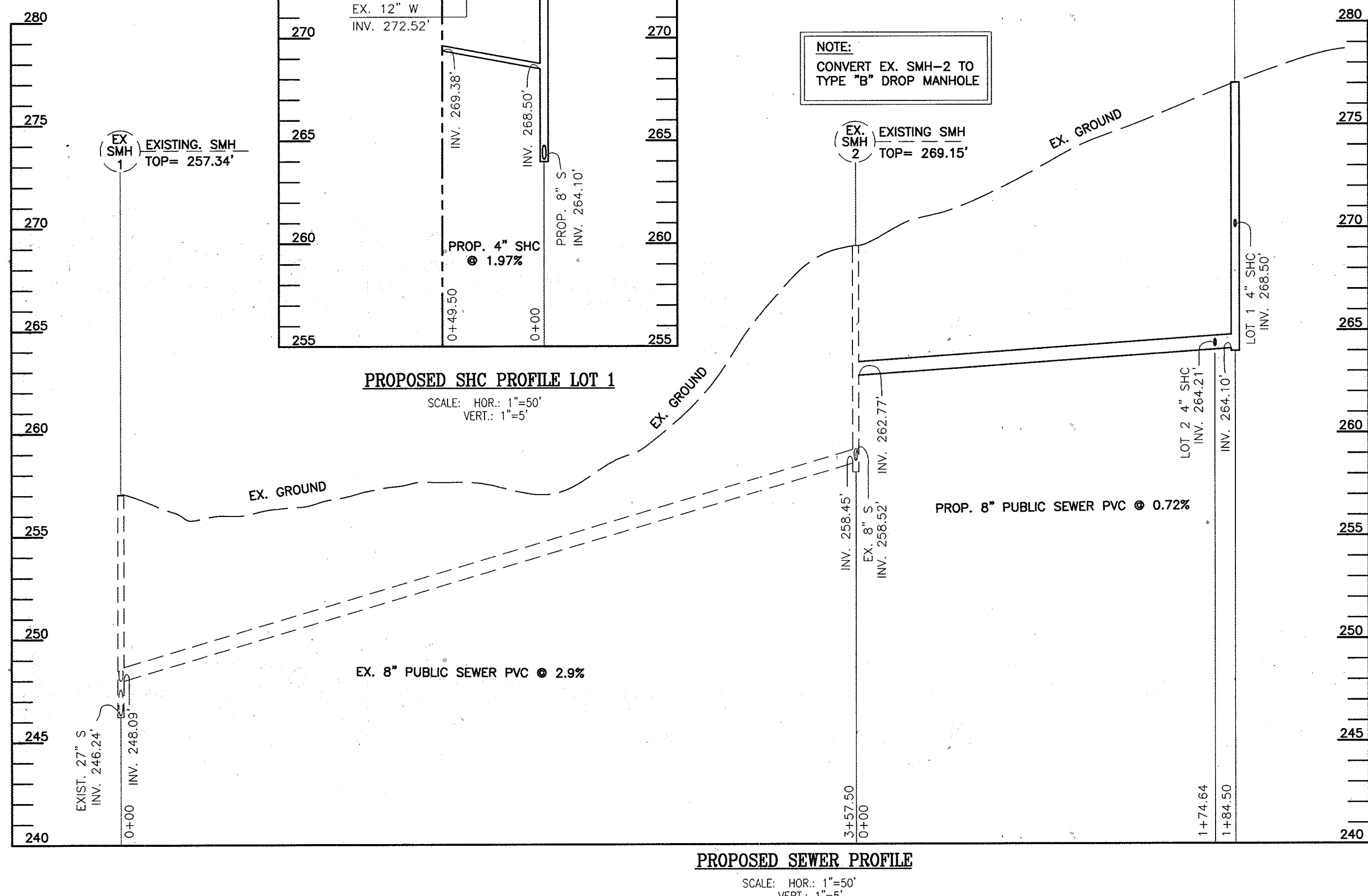
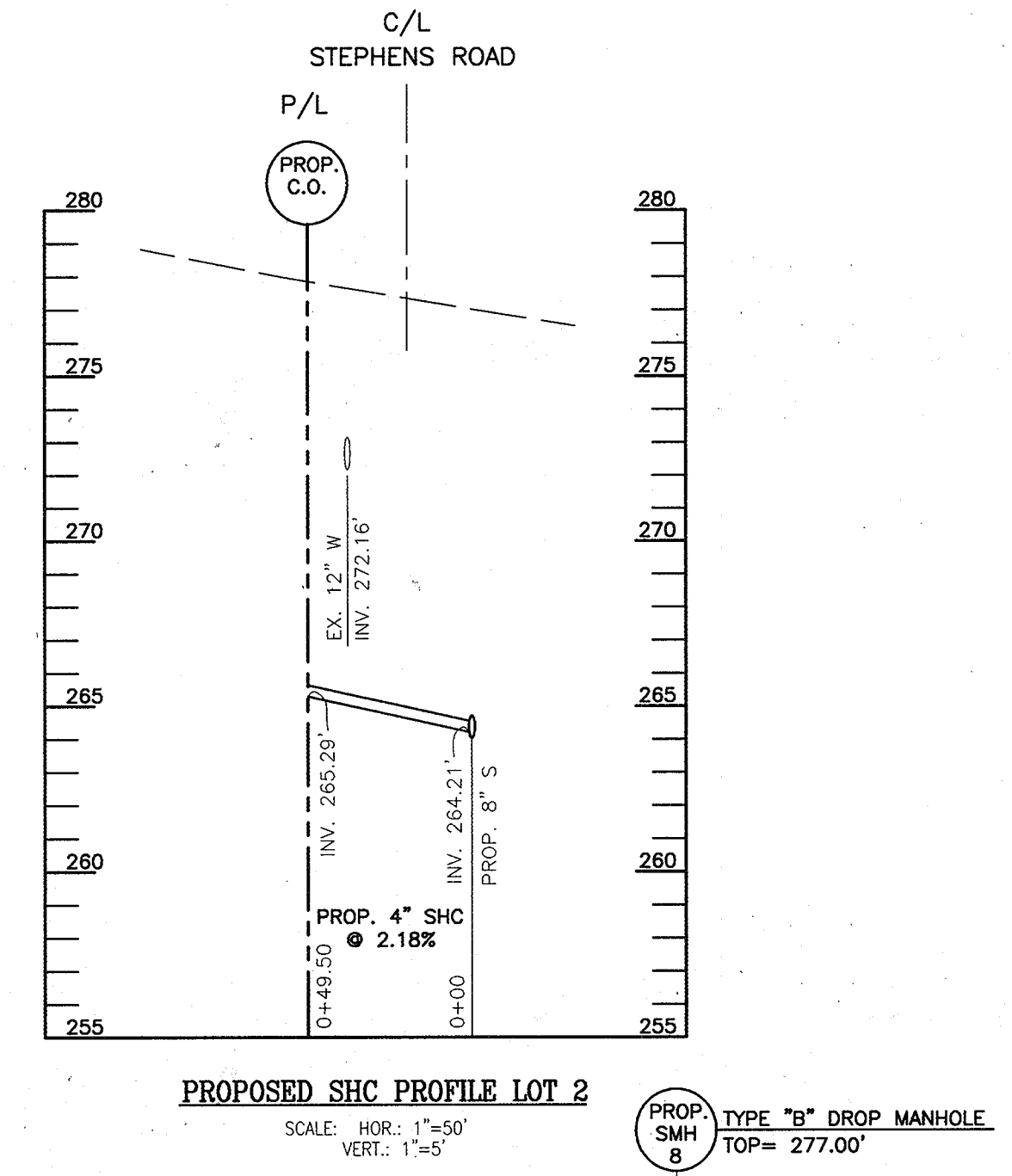
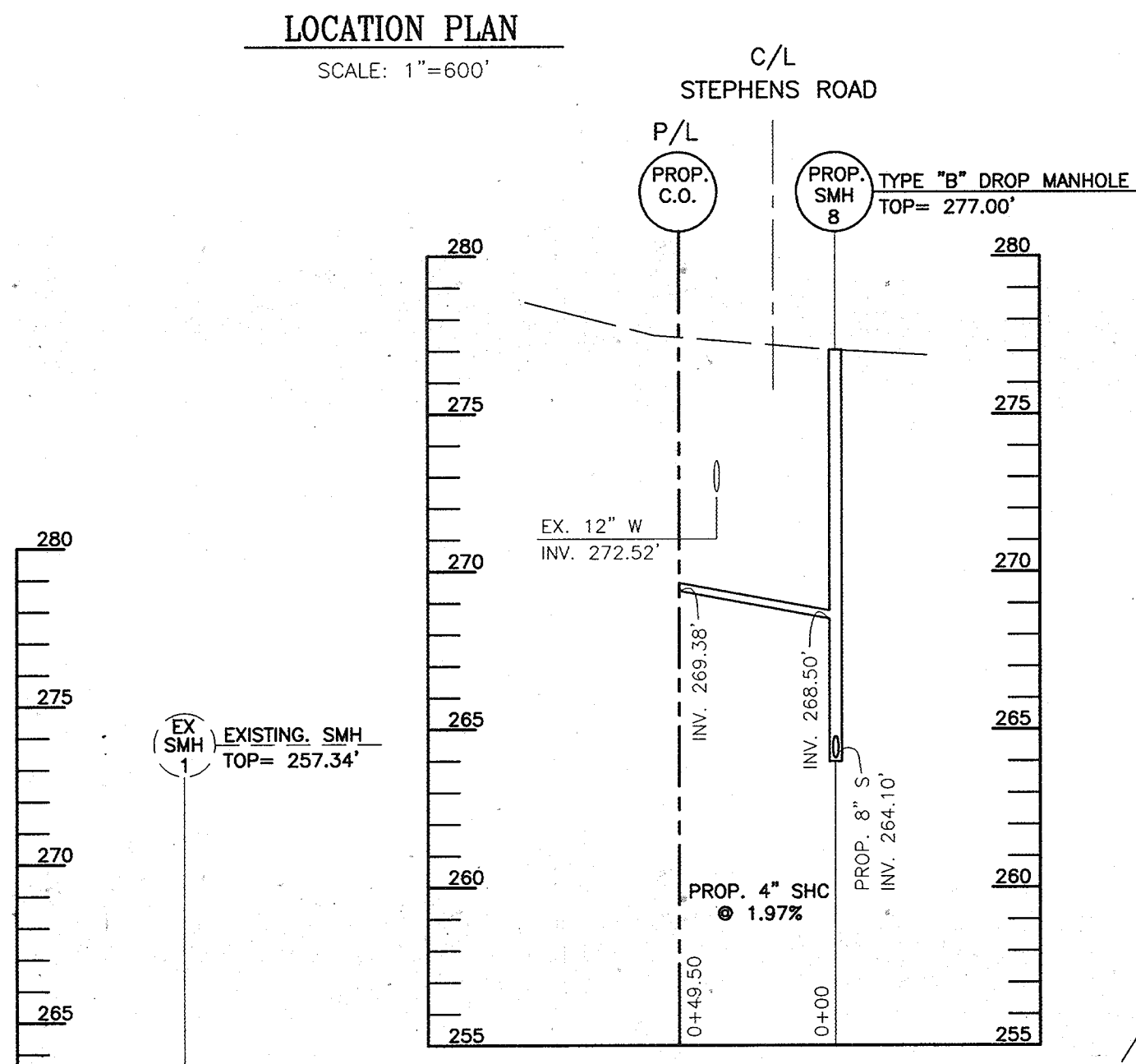
SEWER HOUSE CONNECTIONS

LOT #	TYPE OF CONNECTION	INVERT AT PROPERTY LINE
1	SHC	269.38
2	SHC	265.29

QUANTITIES

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

ITEMS	QUANTITIES ESTIMATED	AS-BUILT	
		QUANTITIES	TYPE MANUFACTURER/SUPPLIER
8" PVC	184 LF		
MANHOLE	1 EA		
4" SHC	95 LF		
1" WHC	35 LF		



- 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, NAD 83/91.
 - ALL VERTICAL CONTROLS ARE BASED ON NAVD 88.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON PLANS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES 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 DETAILS 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 (S) AT THE LOCATIONS OF THE TEST PITS. 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 DONE SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS.

AT&T	1-800-252-1133
BGE (CONTRACTOR SERVICES)	410-850-4620
BGE (UNDERGROUND DAMAGE CONTROL)	410-787-9068
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE CO.	410-785-1390
MESS UTILITY	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	1-800-743-0033 / 410-224-9210
 - TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
 - 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 THE CONSTRUCTION OF THE MAIN.
 - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(c) OF THE HOWARD COUNTY CODE.

- PART II - WATER**
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2" COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
 - ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
 - FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS 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 WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
 - FOR SPRINKLER SYSTEM FOR ALL TOWN HOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1" CONNECTION WITH A 3/4" METER.

- PART III - SEWER**
- 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.
 - FORCE MAINS SHALL BE D.I.P. ONLY.
 - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
 - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS, STANDARD DETAIL 05-92. WHERE WATER-TIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
 - CONTRACTOR SHALL TEST PIT TO VERIFY LOCATION OF EXISTING 4" GAS LINE NEAR PROPOSED SMH-8 AND THE TWO PROPOSED 4" SEWER HOUSE CONNECTIONS.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN SDP-03-129

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

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

John K. Robertson
 HOWARD S.C.D.

11/26/03
 DATE

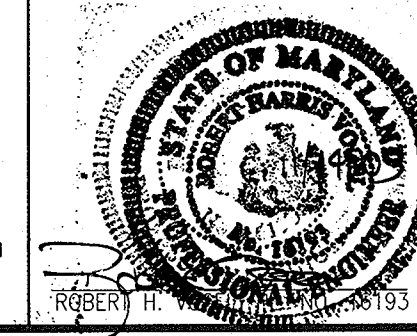
Jim Myers
 U.S. SOIL CONSERVATION SERVICE

11/26/03
 DATE

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
 HOWARD COUNTY, MARYLAND

FREDERICK WARD ASSOCIATES, INC.
 ENGINEERS
 7125 Riverwood Drive Columbia, Maryland 21046-2354
 ARCHITECTS
 Phone: 410-290-9550 Fax: 410-720-6226
 SURVEYORS
 Bel Air, Maryland Columbia, Maryland Warrenton, Virginia



DES:	EB
DRN:	CLY
CHK:	RV
DATE:	11/7/03
BY:	NO.
REVISION:	
DATE:	

PUBLIC SEWER PLAN AND PROFILE
 SCALE: 1"=50'

**HAMMONDS VIEW
 LOTS 1-2 AND OPEN SPACE LOT 3
 CONTRACT NO. 24-4124-D
 STEPHENS ROAD**

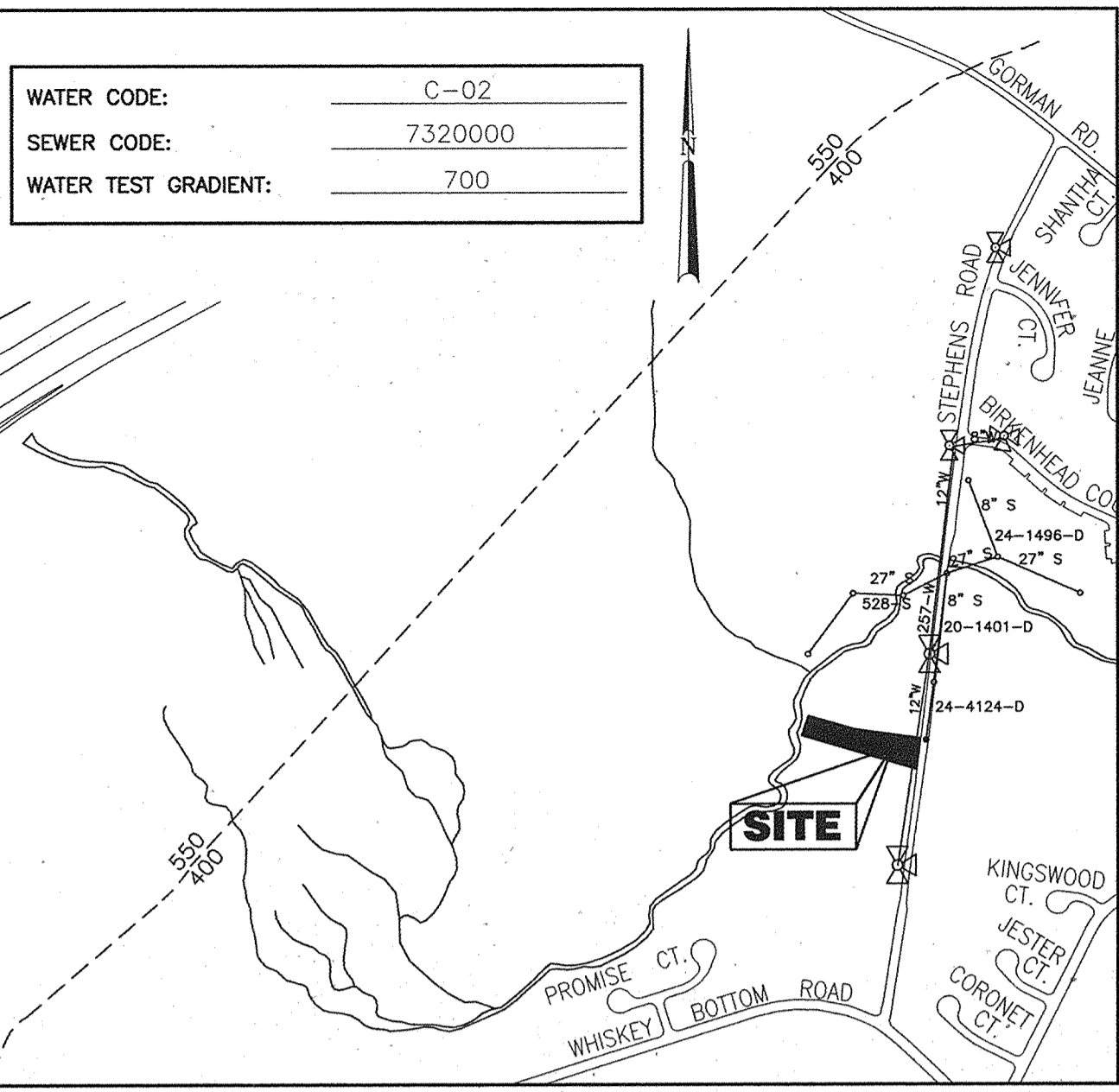
TAX MAP #47 GRID #15
 6TH ELECTION DISTRICT

PARCEL: 551 DEED REF.: L.6631 F.202
 HOWARD COUNTY, MARYLAND

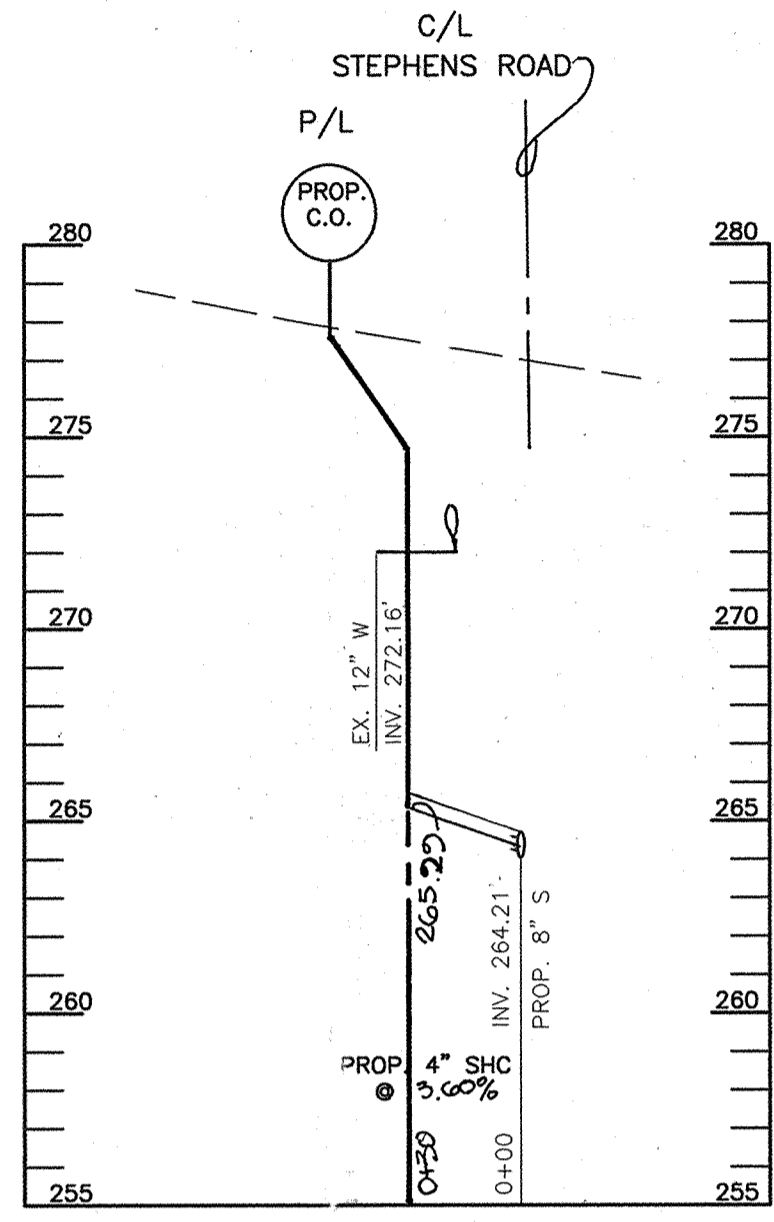
SCALE AS SHOWN
 SHEET 1 OF 1

HAMMONDS VIEW LOTS 1-2 AND OPEN SPACE LOT 3 PUBLIC SEWER PLAN CONTRACT NO. 24-4124-D STEPHENS ROAD

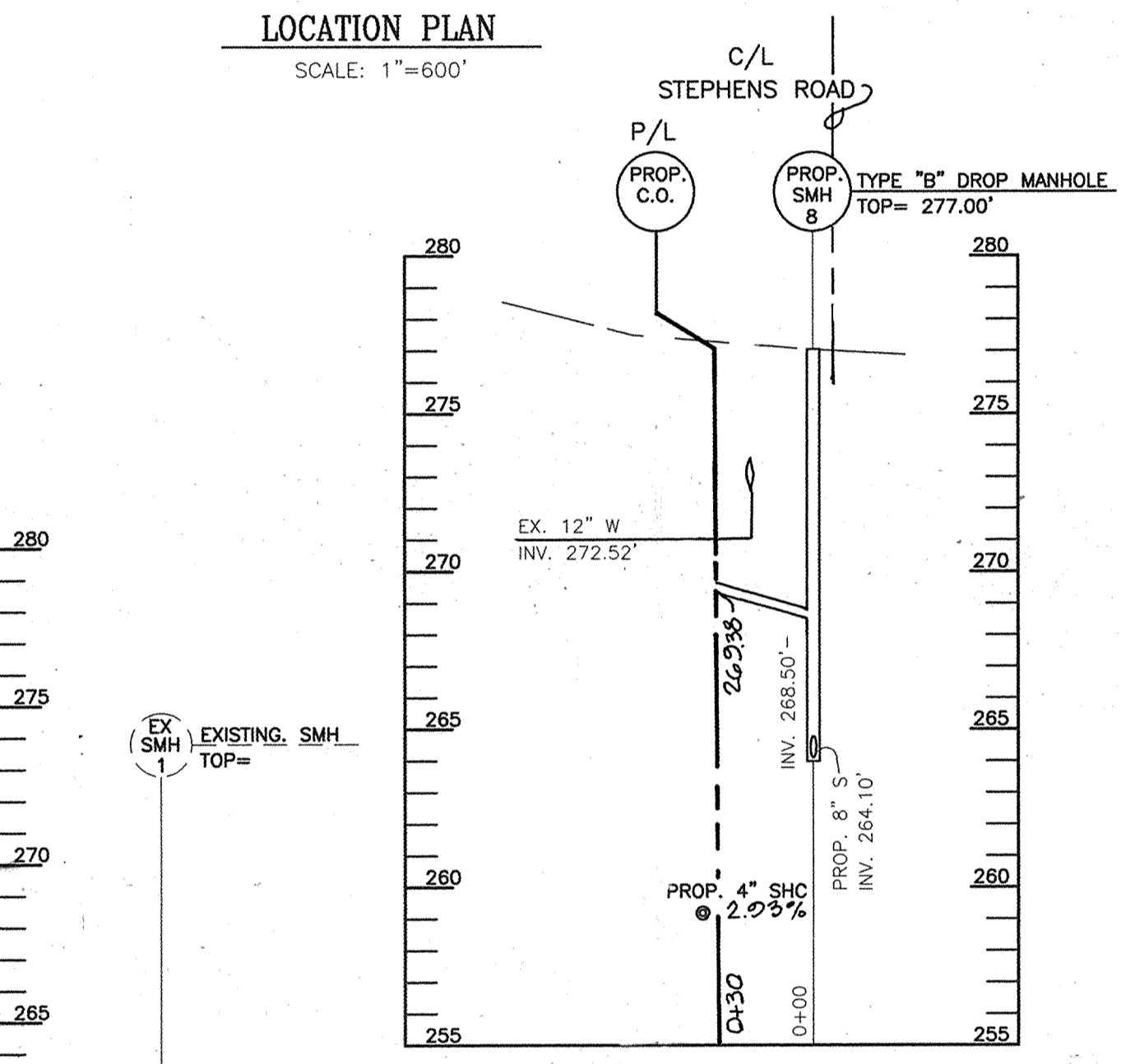
WATER CODE:	C-02
SEWER CODE:	7320000
WATER TEST GRADIENT:	700



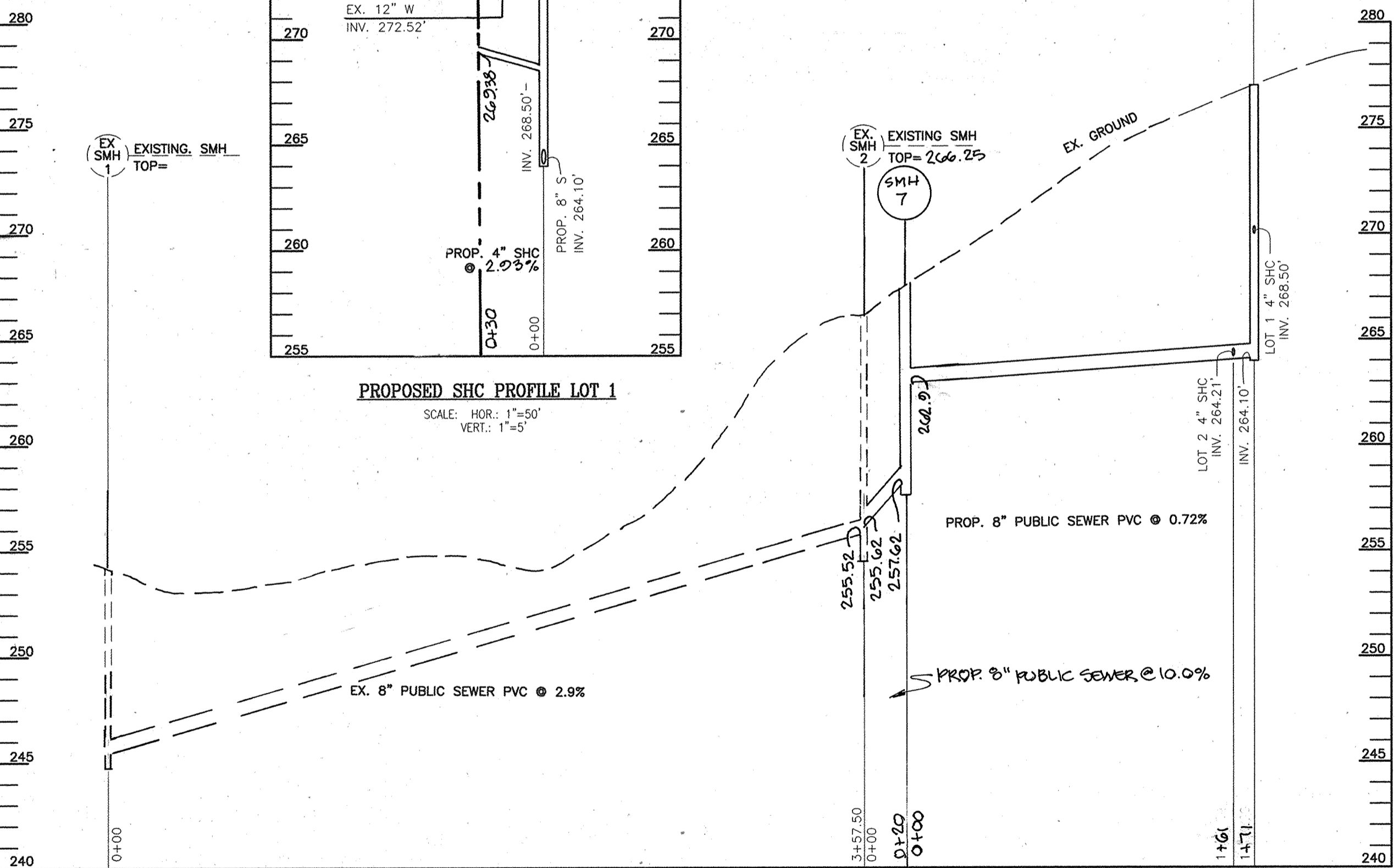
LOCATION PLAN
SCALE: 1"=600'



PROPOSED SHC PROFILE LOT 2
SCALE: HOR. 1"=50' VERT. 1"=5'



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

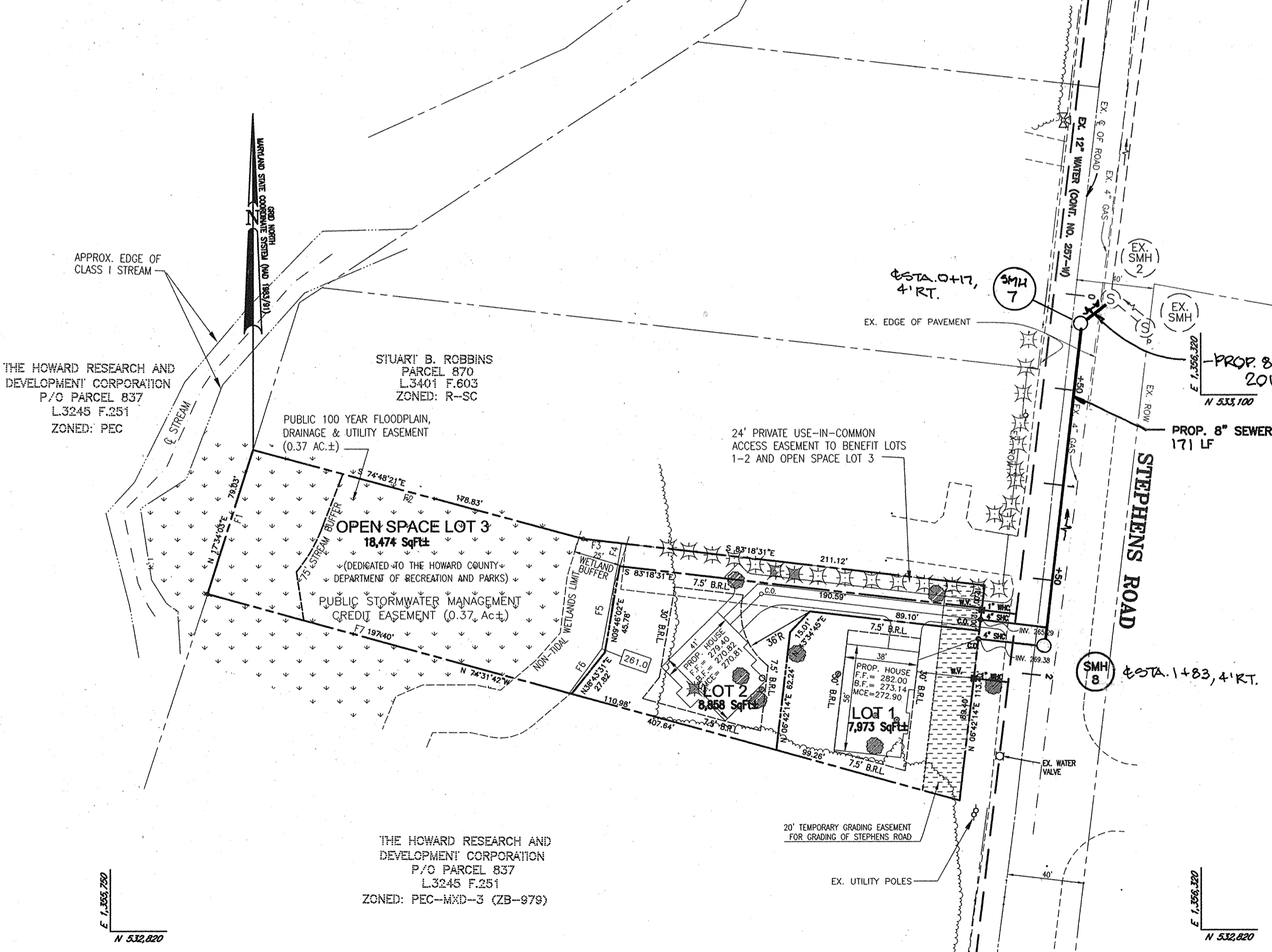


PROPOSED SEWER PROFILE
SCALE: HOR. 1"=50' VERT. 1"=5'

Type of Building :	SINGLE FAMILY DETACHED
No. of Lots/Parcels :	3
No. of single Water House Connections :	2
No. of Sewer House Connections :	2
Drainage Area :	LITTLE PATUXENT
Treatment Plant :	WATER RECLAMATION PLANT

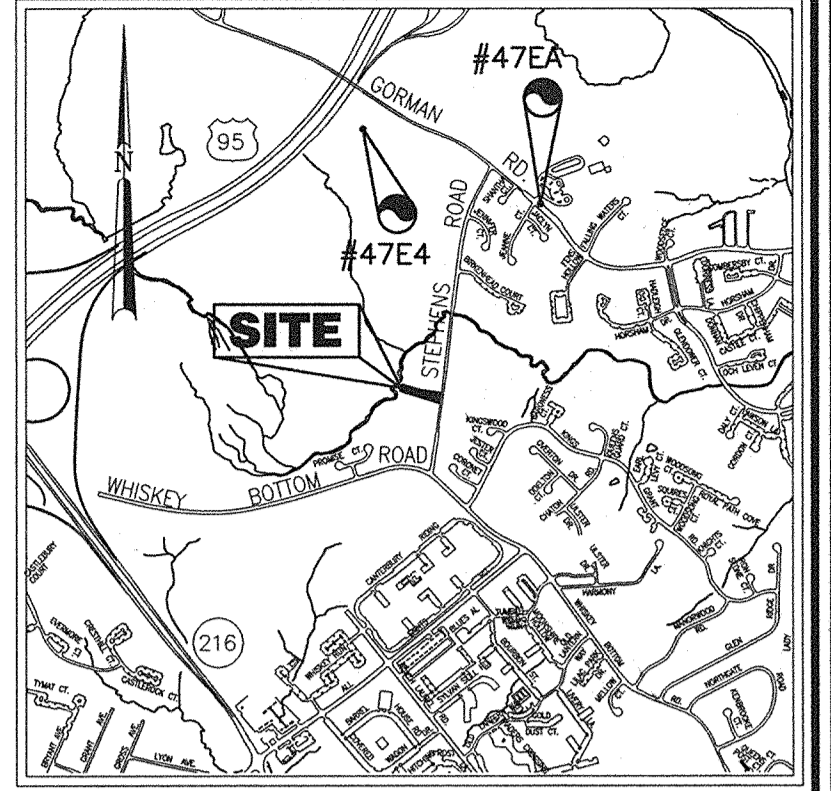
SEWER HOUSE CONNECTIONS		
LOT #	TYPE OF CONNECTION	INVERT AT PROPERTY LINE
1	SHC	269.38
2	SHC	265.29

QUANTITIES				
NAME OF UTILITY CONTRACTOR :				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE :				
ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" PVC MANHOLE	10 EA			
4" SHC	60 LF			
1" WHC	35 LF			



PLAN VIEW
SCALE: 1"=50'

- LEGEND**
- Property Line
 - Existing Treenline
 - Ex. Evergreen for Landscape Credit
 - Ex. Tree to be Removed
 - Proposed Tree
 - Existing Water Main
 - Existing Sanitary Sewer
 - Proposed Sanitary Sewer
 - Direction of Flow



VICINITY MAP
SCALE: 1"=2000'

BENCHMARKS

HOWARD COUNTY CONTROL TRAVERSE NO. 47EA	N 535,063.631	E 1,357,283.989	ELEV. 314.589'
HOWARD COUNTY CONTROL TRAVERSE NO. 47EA	N 535,846.138	E 1,355,431.199	ELEV. 338.224'

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, NAD 83/91.
- ALL VERTICAL CONTROLS ARE BASED ON NAVD 88.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED TO 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 DETAILS 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 (S) AT THE LOCATIONS OF THE TEST PITS. 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.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT&T	1-800-252-1133
BGE (CONTRACTOR SERVICES)	410-850-4620
BGE (UNDERGROUND DAMAGE CONTROL)	410-787-9068
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE CO.	410-795-1350
MESS UTILITY	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	1-800-743-0033 / 410-224-9210
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- 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 THE CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD 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.

- PART II - WATER**
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2" COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
 - ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
 - FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS 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 WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
 - FOR SPRINKLER SYSTEM FOR ALL TOWN HOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1" CONNECTION WITH A 3/4" METER.

- PART III - SEWER**
- 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.
 - FORCE MAINS SHALL BE D.I.P. ONLY.
 - MANHOLES SHOWN WITH 12" AND 18" WALLS ARE FOR BRICK MANHOLES ONLY.
 - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS. STANDARD DETAIL 65-52 WHERE WATER-TIGHT MANHOLE FRAME AND COVER IS USED. SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
 - CONTRACTOR SHALL TEST PIT TO VERIFY LOCATION OF EXISTING 4" GAS LINE NEAR PROPOSED SMH-B AND THE TWO PROPOSED 4" SEWER HOUSE CONNECTIONS.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN SDP-03-129

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

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

John R. Robertson
HOWARD S.C.D.

11/26/03
DATE

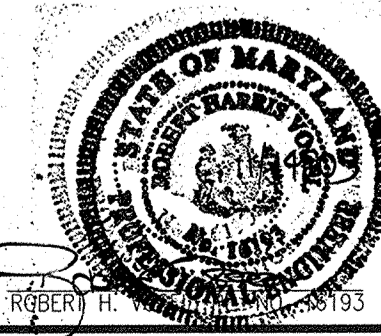
Jim Myers
U.S. SOIL CONSERVATION SERVICE

11/24/03
DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

FREDERICK WARD ASSOCIATES, INC.
ENGINEERS
7125 Riverview Drive Columbia, Maryland 21046-2354
Phone: 410-290-9550 Fax: 410-720-8226
Bel Air, Maryland Columbia, Maryland Warrenton, Virginia



DES:	EB
DRN:	CLY
CHK:	RV
DATE:	11/7/03
BY:	JCO
NO.:	1
REVISION:	REVISE SEWER & PROFILES
DATE:	5/10/04

PUBLIC SEWER PLAN AND PROFILE

**HAMMONDS VIEW
LOTS 1-2 AND OPEN SPACE LOT 3
CONTRACT NO. 24-4124-D
STEPHENS ROAD**

SCALE AS SHOWN

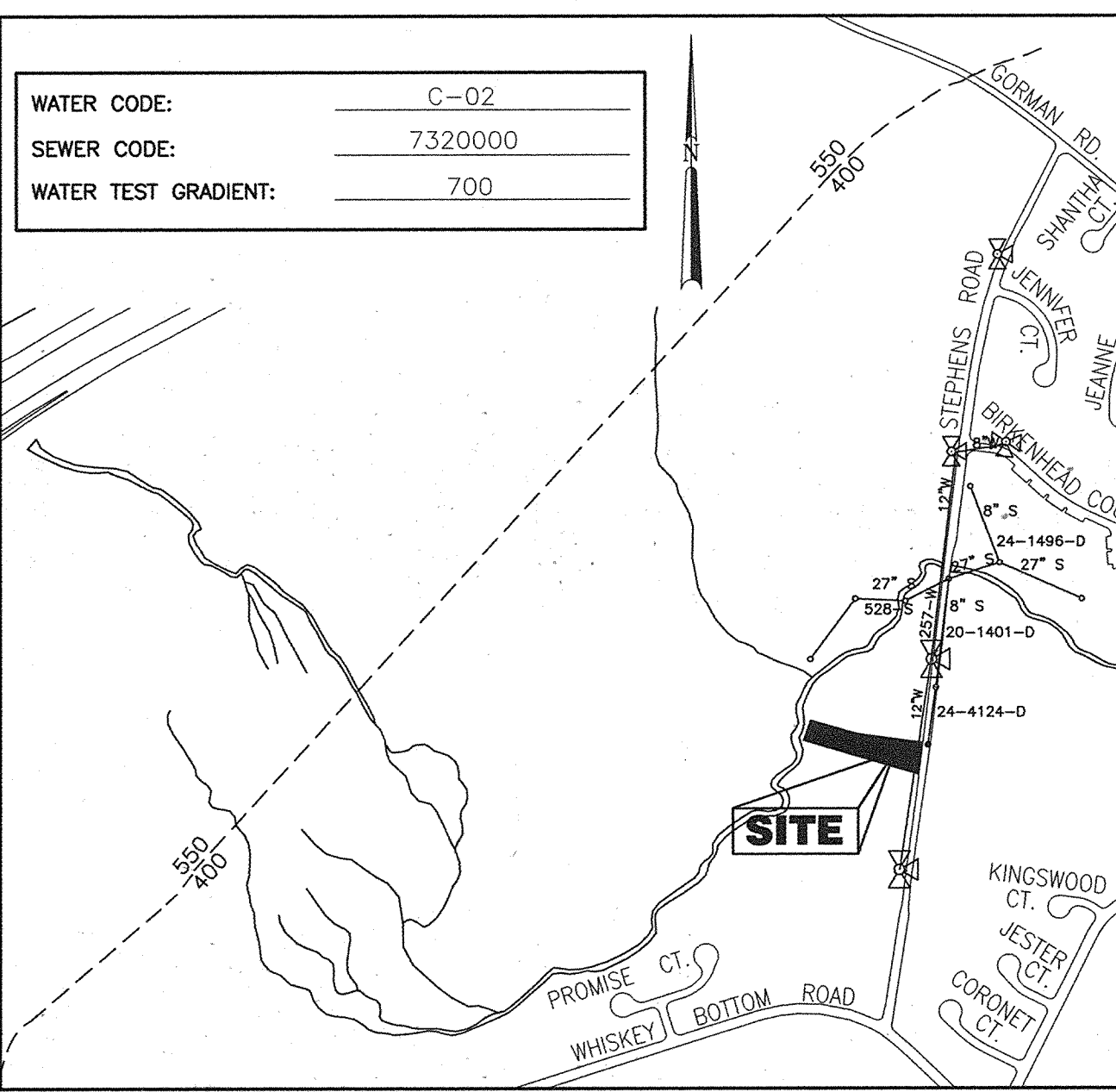
SHEET 1 OF 1

TAX MAP #47 GRID #15
6TH ELECTION DISTRICT
PARCEL: 551 DEED REF.: L6631 F.202
HOWARD COUNTY, MARYLAND

600' SCALE MAP NO. 47
BLOCK NO. 15

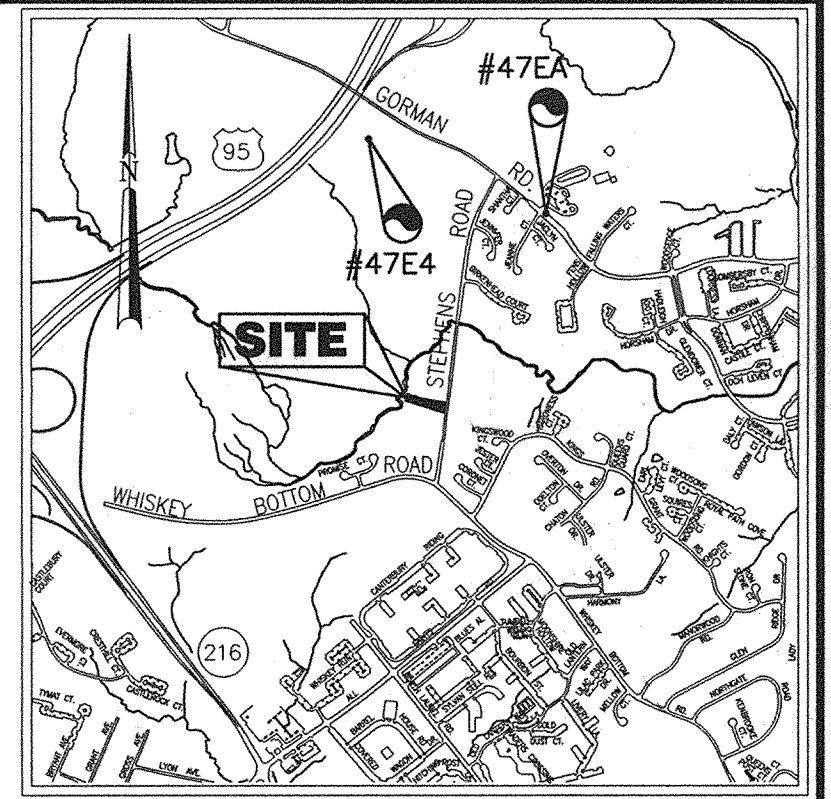
HAMMONDS VIEW LOTS 1-2 AND OPEN SPACE LOT 3 PUBLIC SEWER PLAN CONTRACT NO. 24-4124-D STEPHENS ROAD

WATER CODE:	C-02
SEWER CODE:	7320000
WATER TEST GRADIENT:	700



LEGEND

- Property Line
- Existing Treenline
- Ex. Evergreen for Landscape Credit
- Ex. Tree to be Removed
- Proposed Tree
- Existing Water Main
- Existing Sanitary Sewer
- Proposed Sanitary Sewer
- Direction of Flow



BENCHMARKS

HOWARD COUNTY CONTROL TRAVERSE NO. 47EA	N 535,063.631	E 1,357,283.989	ELEV. 314.589'
HOWARD COUNTY CONTROL TRAVERSE NO. 47E4	N 535,846.138	E 1,355,431.199	ELEV. 338.224'

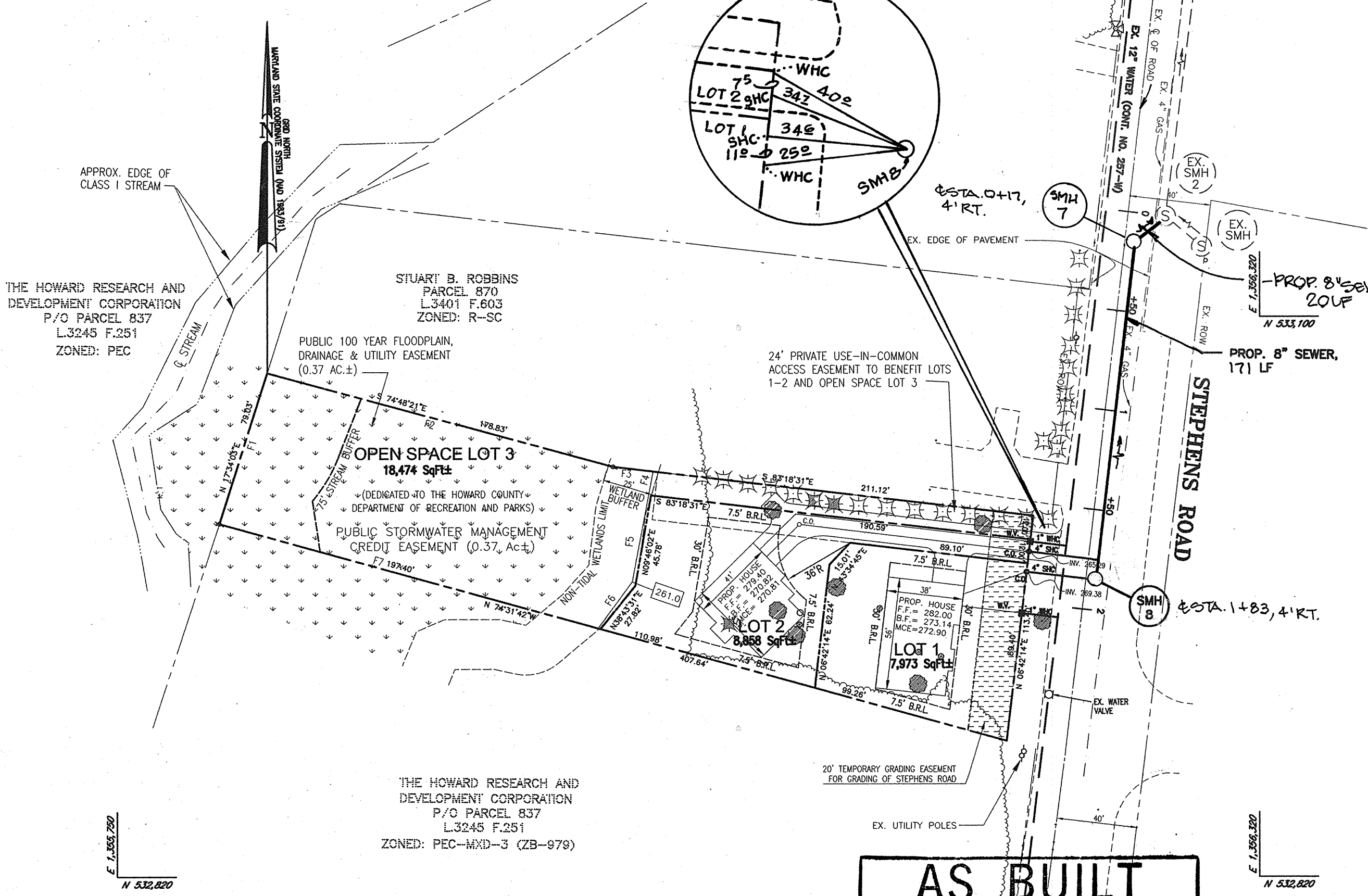
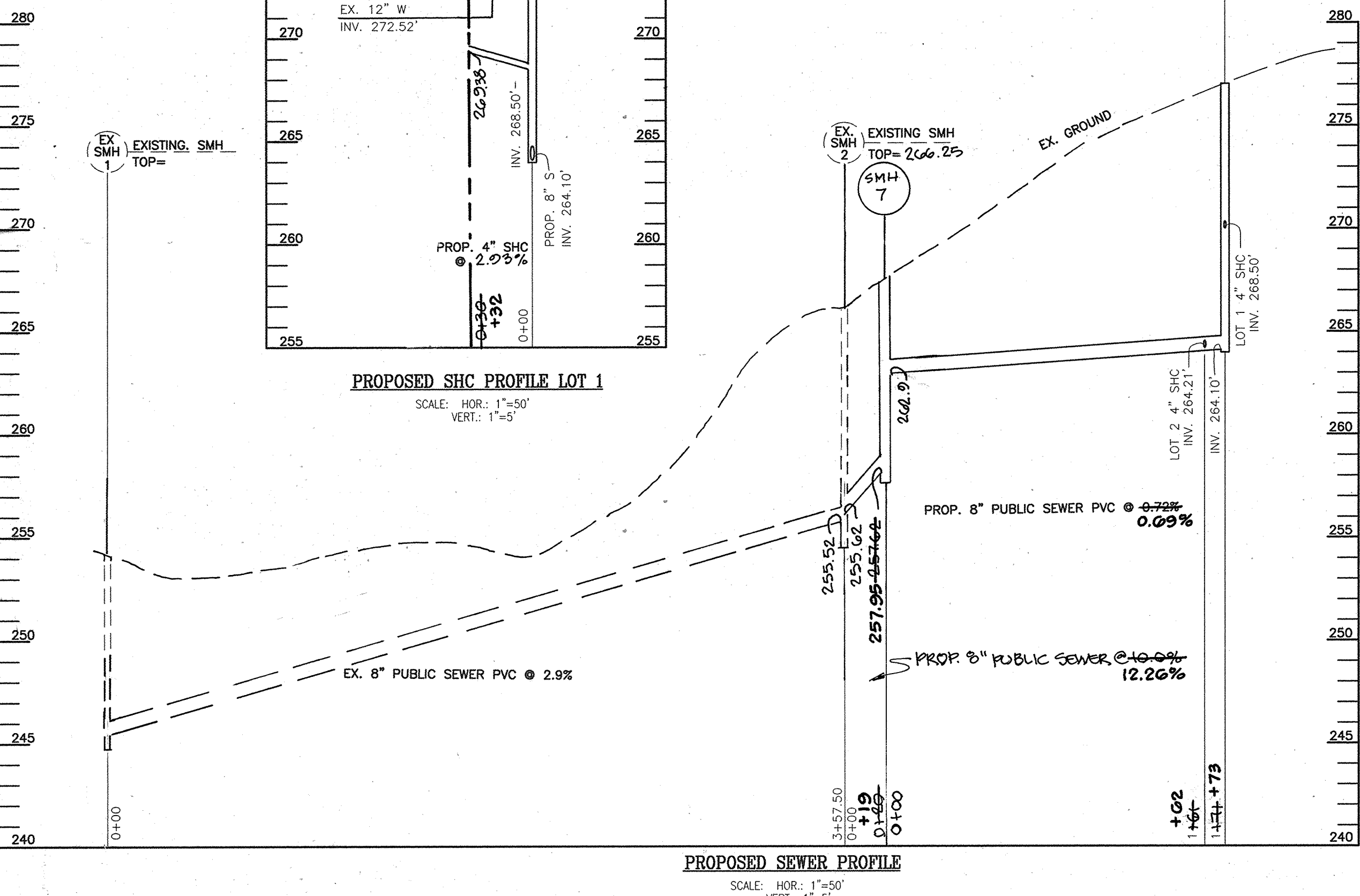
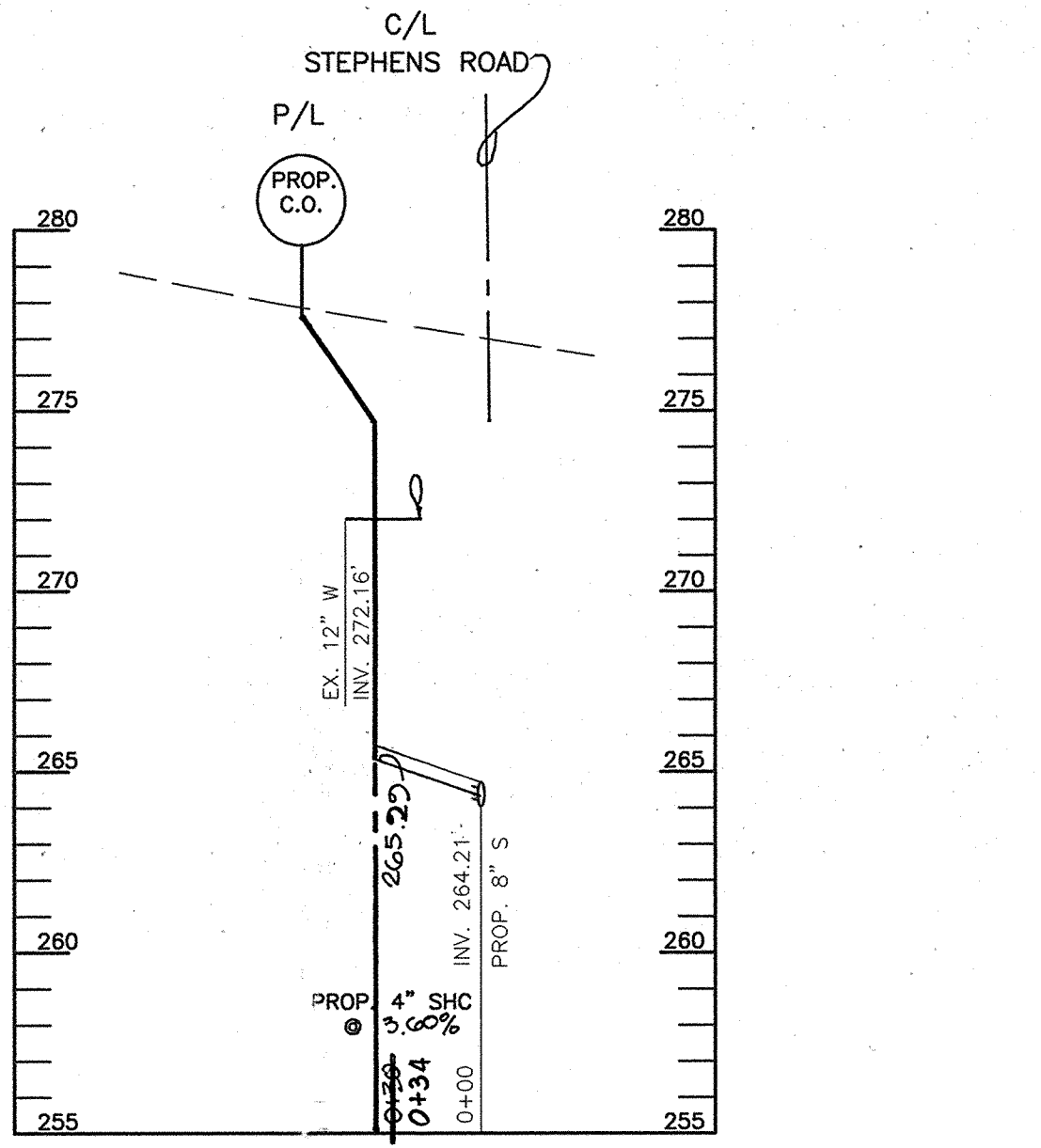
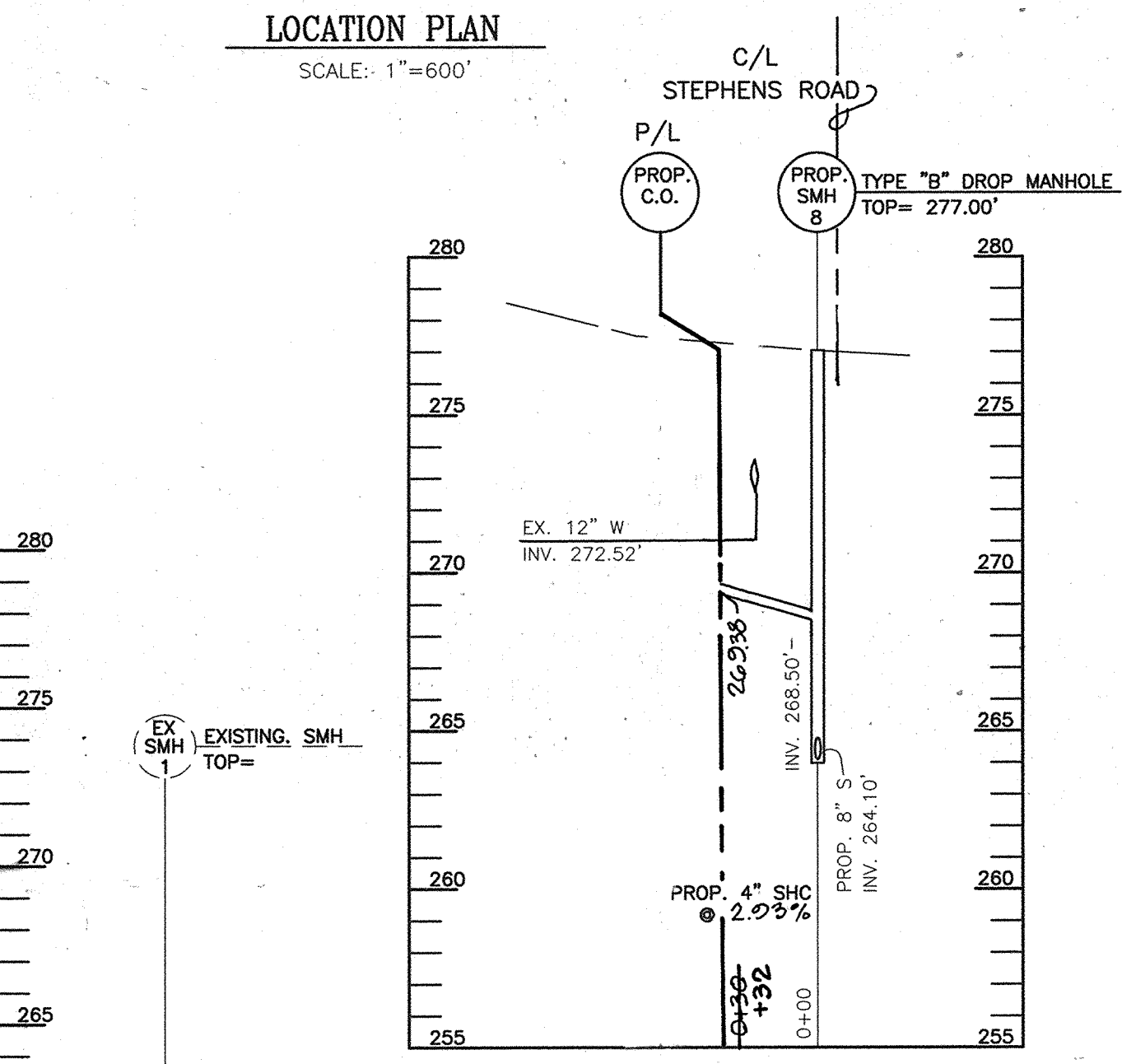
Type of Building :	SINGLE FAMILY DETACHED
No. of Lots/Parcels :	3
No. of single Water House Connections :	2
No. of Sewer House Connections :	2
Drainage Area :	LITTLE PATUXENT
Treatment Plant :	WATER RECLAMATION PLANT

SEWER HOUSE CONNECTIONS

LOT #	TYPE OF CONNECTION	INVERT AT PROPERTY LINE
1	SHC	269.38
2	SHC	265.29

QUANTITIES

NAME OF UTILITY CONTRACTOR :		SURVEY AND DRAFTING DIVISION AS-BUILT DATE :	
ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE MANUFACTURER/SUPPLIER
8" PVC	10 LF	184 L.F.	SDR 35 JM MANUF./BRS
MANHOLE	2 EA	2 EA.	PRECAST ATLANTIC/ATLANTIC
4" SHC	60 LF	60 L.F.	SDR 35 JM MANUF./BRS
1" WHC	35 LF	18 L.F.	*K CAMBRIDGE LEE/BRS



- ### 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, NAD 83/91.
 - ALL VERTICAL CONTROLS ARE BASED ON NAVD 88.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON PLANS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 12". CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. THE OWNER HAS CONTACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON 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 MONIES 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 DETAILS 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 LOCATIONS OF THE TEST PITS. 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.
 - THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK ON THESE PLANS:

AT&T	1-800-252-1133
BOE (CONTRACTOR SERVICES)	410-860-4620
BOE (UNDERGROUND DAMAGE CONTROL)	410-787-8088
BUREAU OF UTILITIES	410-313-4800
COLONIAL PIPELINE CO.	410-795-1590
MISS UTILITY	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	1-800-743-0033 / 410-224-9210
 - TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
 - 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 THE CONSTRUCTION OF THE MAIN.
 - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH UPW REQUIREMENTS PER SECTION 18.114(c) OF THE HOWARD COUNTY CODE.
- ### PART II - WATER
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3-1/2" COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
 - ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
 - FIRE HYDRANTS SHALL BE SET TO THE BURY LINE. ELEVATIONS 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 WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
 - FOR SPRINKLER SYSTEM FOR ALL TOWN HOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1" CONNECTION WITH A 3/4" METER.
- ### PART III - SEWER
- 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.
 - FORCE MAINS SHALL BE D.I.P. ONLY.
 - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
 - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS. STANDARD DETAIL 65-52. WHERE WATER-TIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
 - HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
 - CONTRACTOR SHALL TEST PIT TO VERIFY LOCATION OF EXISTING 4" GAS LINE NEAR PROPOSED SMH-8 AND THE TWO PROPOSED 4" SEWER HOUSE CONNECTIONS.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND WITH SITE DEVELOPMENT PLAN SDP-03-129

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

John R. Robertson
HOWARD S.C.D. DATE: 11/26/03

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

Jim Mays
U.S. SOIL CONSERVATION SERVICE DATE: 11/26/03

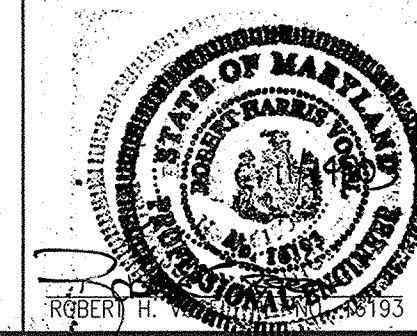
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert Bannister
CHIEF, BUREAU OF UTILITIES DATE: 11-18-03

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

John J. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE: 12/2/03

FREDERICK WARD ASSOCIATES, INC.
ENGINEERS ARCHITECTS SURVEYORS
7125 Riverwood Drive Columbia, Maryland 21046-2354
Phone: 410-290-9550 Fax: 410-720-6226
Bel Air, Maryland Columbia, Maryland Warrenton, Virginia



DES:	EB
DRN:	CLY
CHK:	RV
DATE:	11/7/03
BY:	JCO
NO.:	1
REVISION:	REVISE SEWER & PROFILES
DATE:	5/10/04

AS BUILT
DATE: JULY 2004

PLAN VIEW
SCALE: 1"=50'

PUBLIC SEWER PLAN AND PROFILE

600' SCALE MAP NO. 47 BLOCK NO. 15

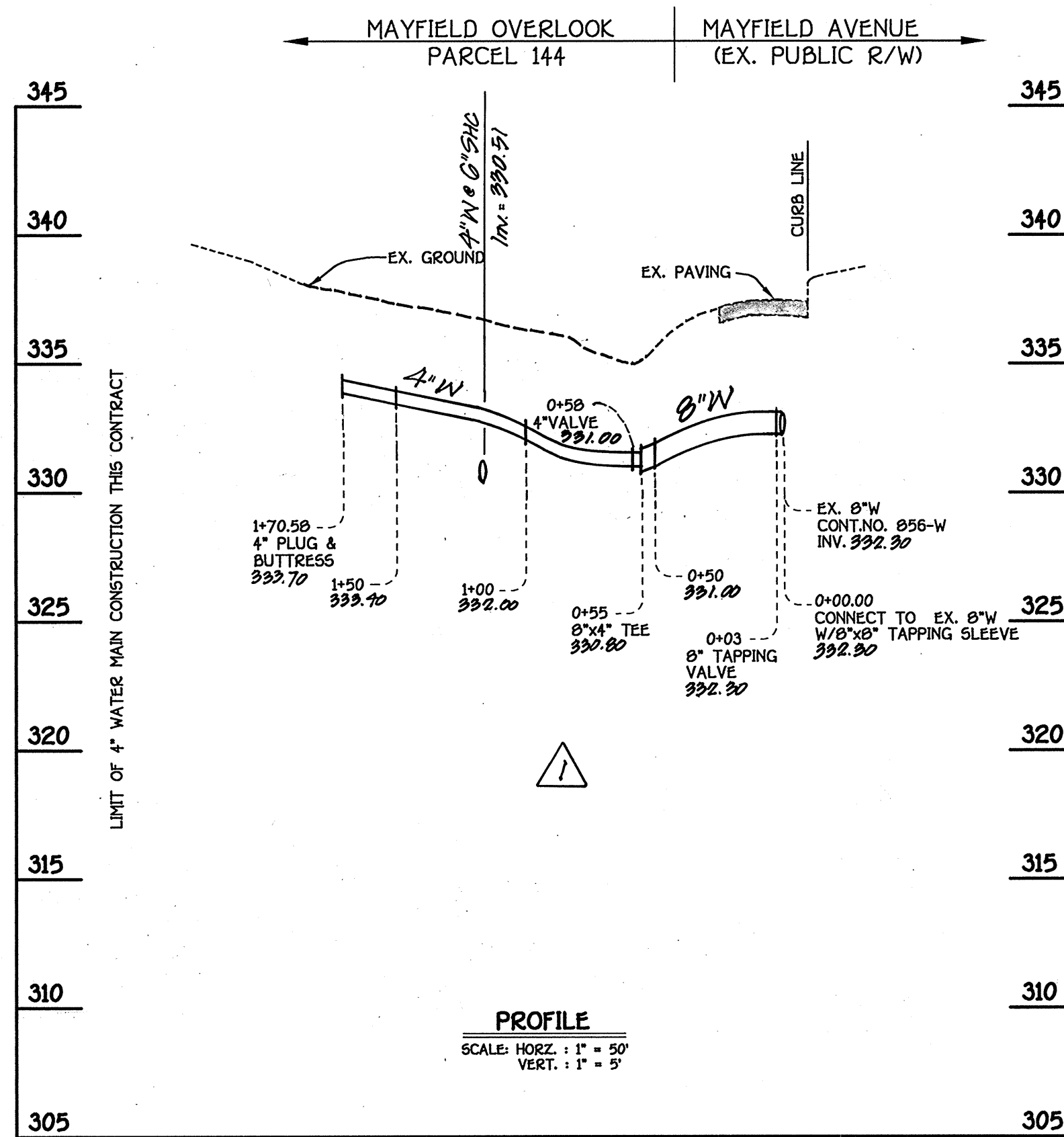
HAMMONDS VIEW
LOTS 1-2 AND OPEN SPACE LOT 3
CONTRACT NO. 24-4124-D
STEPHENS ROAD

TAX MAP #47 GRID #15 PARCEL: 551 DEED REF: L.6631 F.202
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 1 OF 1

SHC INVERT @ PROPERTY LINE CHART		
STATION	LOT	ELEVATION
1+39	EX. MH * 2 - EX. MH * 3 3 & 4 (TWIN 6" SHC @ 1.00X)	330.92
1+00	EX. MH * 3 - EX. MH * 4 1 (EX. 6" SHC @ 1.00X)	331.29
0+39	EX. MH * 4 - EX. MH * 5 2 (6" SHC @ 1.00X)	333.25

WATER MAIN TABULATION CHART			
W.M. STATION	APPURTENANCE	NORTHING	EASTING
8" WATER MAIN			
0+00.00	CONNECT TO EX. 8" WATER W/ 8" x 8" TAPPING SLEEVE		
0+03	8" TAPPING VALVE	557363.8158	1370909.5237
0+55	8" X 4" TEE	557411.6082	1370912.1707
0+58	4" VALVE	557412.9935	1370906.9787
1+70.58	4" PLUG & BUTTRESS	557450.1238	1370803.3287



8"W/4"W WATER MAIN

CONTRACT NO. 14-4242-D
MAYFIELD OVERLOOK
LOTS 1 THRU 6
WATER MAIN EXTENSION
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLIOTT CITY, MARYLAND 21602
410.462.2222



DESIGNED BY : P.W.K.
DRAWN BY : A.E.
CHECKED BY : *AWC* / *1* Revised Ex. Ground over 4" & 8" water mains, Revised 4" & 8" water mains to avoid conflict with SHC at crossing. 1-9-09
DATE : NOVEMBER, 2004 BY NO. REVISION DATE

WATER MAIN
PROFILE

600' SCALE MAP NO. 37 BLOCK NO. 14
F.C.C. WORK ORDER NO. 61778
FILE NAME : 61778.FINAL.WATSEW.PROFILE

MAYFIELD OVERLOOK
LOTS 1 THRU 6
CONTRACT NO. 14-4242-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE
AS
SHOWN

SHEET
2 OF 3

[Signature] 11-24-04
CHIEF, BUREAU OF UTILITIES DATE

[Signature] 12/1/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

K:\SDS\PROJ\61778_Mayfield_Avenue\DWG\WATSEW\61778_FINAL_WATSEW_PLAN.dwg, 11/24/2004, 2:28:35 PM