

QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
8" S	259 L.F.	259 LF	SDR 35	BRS/JM Eagle
4" S	145 L.F.	145 LF	SDR 35	BRS/JM Eagle
MANHOLE	3 EACH	3		
8" W	213 L.F.	213	DR-18"	BRS/JM Eagle
6" W	22 L.F.	21	DR-18"	BRS/JM Eagle
4" W	87 L.F.	87	DR-18"	BRS/JM Eagle
1-1/2" WHC	90 L.F.	90	K Copper	BRS/Cambridge Corp
1/8" H.B.	1 EACH	1	324-O80	BRS/Harrington Corp
1/16" H.B.	2 EACH	2	324-O40	BRS/Harrington Corp
1/32" H.B.	2 EACH	2	324-O40	BRS/Harrington Corp
8" X 6" TEE	1 EACH	1	M J Epoxy	BRS/Star Pipe
8" VALVE	1 EACH	1	RSOR Gate Val	BRS/Muller Co.
6" VALVE	1 EACH	1	RSOR Gate Val	BRS/Muller Co.
4" VALVE	1 EACH	1	RSOR Gate Val	BRS/Muller Co.
8" X 4" REDUCER	1 EACH	1	M J	BRS/Star Pipe
FIRE HYDRANT	1 EACH	1	7" Orange	BRS/Muller Co.
CONTINUITY TEST STATION	1 EACH	1	18" x 30" Conc.	BRS/Horne Conc.
4" FLUG & BUTTRESS	1 EACH	1	ASTM 3034	BRS/Plastic Trends
SINGLE OUTSIDE METER SETTING	4 EACH	4		

BENCHMARK INFORMATION
 B.M.#1 - HOWARD COUNTY CONTROL STATION #316B - HORIZONTAL - (NAD '83)
 (LOCATED ALONG TALBOTS LANDING, APPROX. 92.3' SE FROM THE CENTER OF DRIVEWAY #5149
 N 568,731.0273
 E 1,376,273.5589
 ELEVATION = 452.628 - VERTICAL - (NAVD '88)

B.M.#2 - HOWARD COUNTY CONTROL STATION #3116 - HORIZONTAL - (NAD '83)
 (LOCATED INSIDE ROCKBURN BRANCH PARK, APPROX. 90' SW OF THE TRANSMISSION TOWER)
 N 565,933.4256
 E 1,380,153.4467
 ELEVATION = 344.039 - VERTICAL - (NAVD '88)

PRIVATE WELL & PRIVATE SEPTIC SYSTEM CHART				
PARCEL NO.	ADDRESS	OWNER	ABANDON WELL	ABANDON SEPTIC
702	5277 TALBOTS LANDING	ELLCOTT CITY LAND HOLDING LLC	YES	YES

NOTE: WATER METERS WILL NOT BE RELEASED BY HOWARD COUNTY TO ANY NEW BUILDING UNTIL THE EXISTING WELLS AND SEPTIC SYSTEMS HAVE BEEN ABANDONED IN ACCORDANCE WITH HOWARD COUNTY HEALTH DEPARTMENT REGULATIONS AND THE EXISTING BUILDINGS ARE CONNECTED TO THE PUBLIC WATER AND SEWER MAINS.

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

Paul W. Koebel, FOR: 05-21-12
 ELLCOTT CITY LAND HOLDING, INC. DATE
 SIGNATURE OF DEVELOPER

ENGINEER'S CERTIFICATION
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Paul W. Koebel, 05/21/12
 SIGNATURE OF ENGINEER DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 306 OF THE HOWARD COUNTY DESIGN MANUAL - VOLUME IV: STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND AS SHOWN ON THESE PLANS.

Paul W. Koebel, FOR: 05-21-12
 ELLCOTT CITY LAND HOLDING, INC. DATE
 SIGNATURE OF DEVELOPER

GP-12-042

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

APPROVED: John R. Robertson 6/13/12
 HOWARD SOIL CONSERVATION DISTRICT DATE

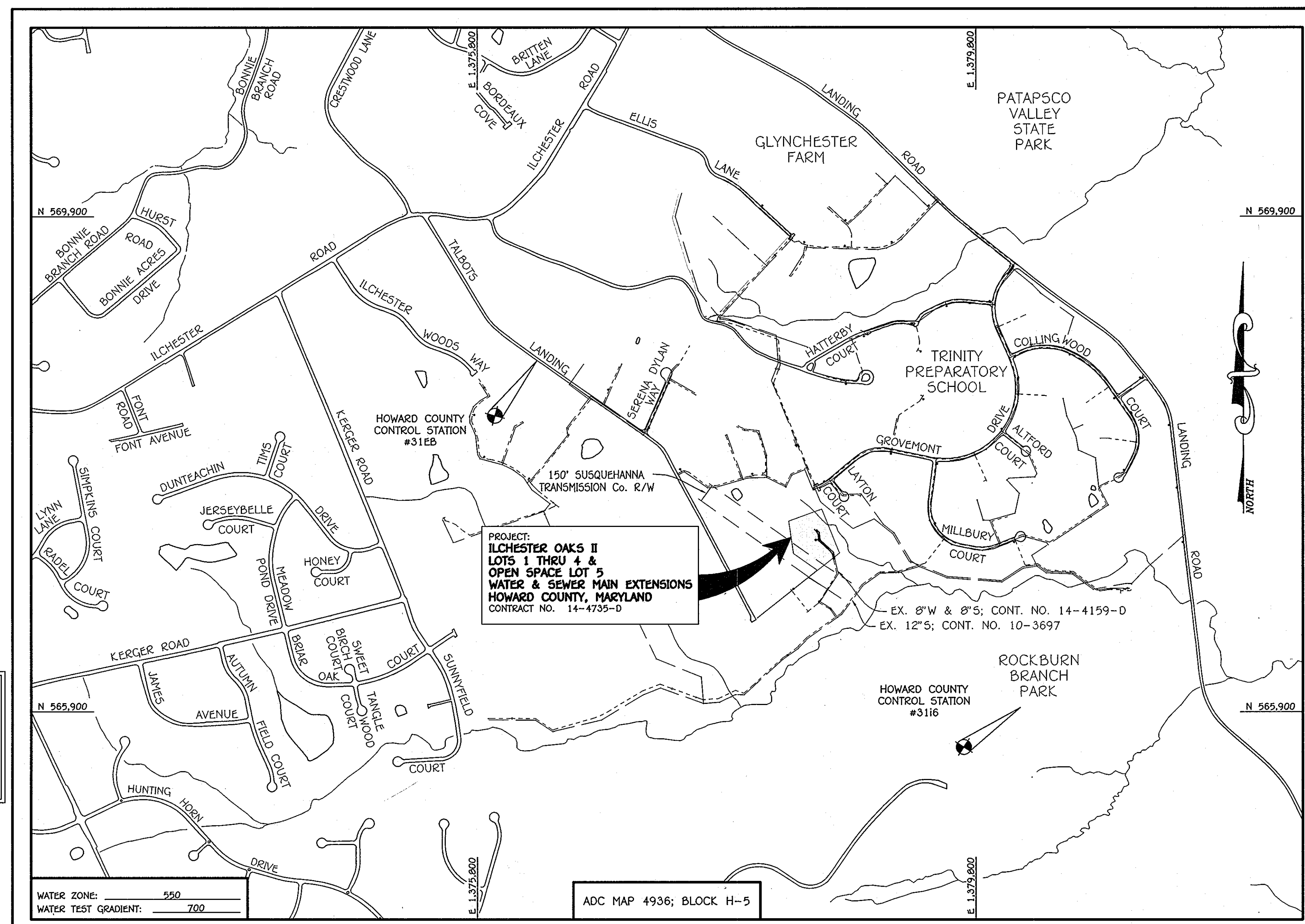
DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

1. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 12043 EXPIRATION DATE IS 7/18/12.

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461-2999

DESIGNED BY: B.C.R.
 DRAWN BY: B.C.R.
 CHECKED BY: P.W.K.
 DATE: MAY, 2012

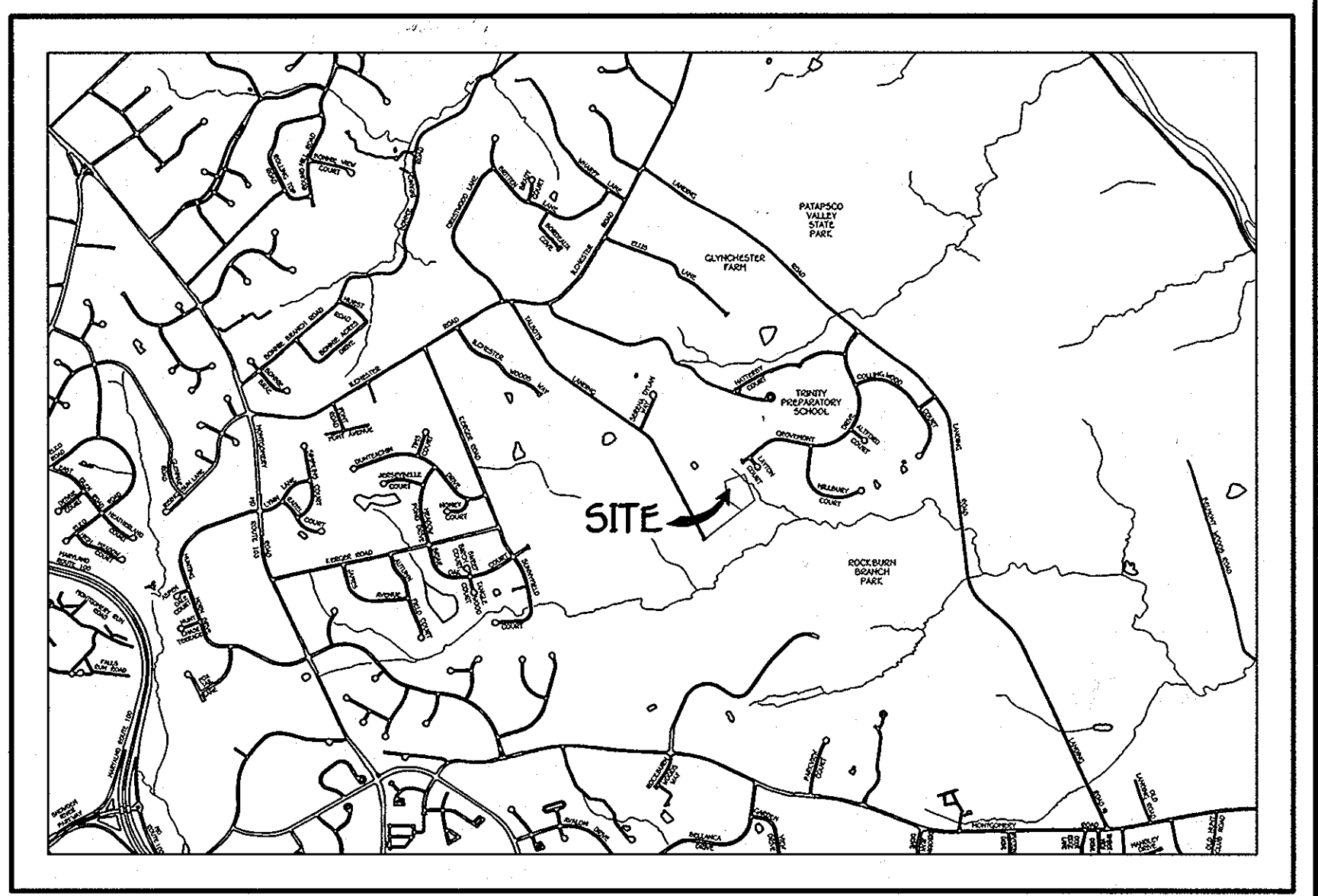


TYPE OF BUILDING: RESIDENTIAL - SINGLE FAMILY DETACHED DWELLING UNITS	
NUMBER OF PARCELS:	1
NO. OF WATER HOUSE CONNECTIONS:	4
NO. OF SEWER HOUSE CONNECTIONS:	4
SEWER SHED:	PATAPSCO
TREATMENT PLANT:	PATAPSCO WASTEWATER TREATMENT PLANT CITY OF BALTIMORE

ADC MAP 4936; BLOCK H-5

SCALE: 1" = 600'

PLAN REFERENCE NUMBERS:
 F-12-XXX (RECORD PLAT)
 S0P-12-XXX



VICINITY MAP
 SCALE: 1" = 2000'

GENERAL NOTES

- PART A
- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 - TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON OR ABOUT APRIL, 2010 BY FISHER, COLLINS & CARTER, INC.
 - HORIZONTAL AND VERTICAL SURVEY CONTROLS: THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/91' AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS NO. 316B & NO. 3116.
 - ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. 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 THE DRAWINGS. IN THE EVENT THE CONTRACTOR'S WORK REQUIRES BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF THE 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 SITE.
 - 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 OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

AT&T	1-800-252-1133
BGE (CONTRACTOR SERVICES)	410-637-8713
BGE (EMERGENCY)	410-685-0123
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE CO	410-795-1390
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.
 - CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR 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 B: WATER MAIN GENERAL NOTES
- ALL WATER MAINS SHALL BE AWWA C900 PVC, DR-18.
 - TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF 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 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 INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1009 OF THE STANDARD SPECIFICATIONS.
 - THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
 - TRACER WIRE AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL D.I.P. AND PVC WATER MAINS IN ACCORDANCE WITH HOWARD COUNTY DESIGN MANUAL.
 - FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AWWA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO APPROVAL OF THE MATERIAL FOR USE. THE TEST RECORDS SHALL BE FOR THE PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL PVC PIPE SHALL CONTAIN MARKINGS TO ALLOW CROSS REFERENCING OF THE PIPE SUPPLIED TO THE TEST RECORDS RECEIVED.
 - UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS, SEVENTEEN (17) POUND SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL VALVES AND METALLIC FITTINGS USED WITH PVC WATER MAINS IN ACCORDANCE WITH VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION. MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HANGERS. ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS. ALL "TEES" USED WITH PVC MAINS SHALL BE DUCTILE IRON.
 - TO ACCOMMODATE A SPRINKLER SYSTEM, ALL DWELLING UNITS SHALL HAVE A MINIMUM OF 1-1/2" CONNECTION WITH 1" OUTSIDE METER SETTING.

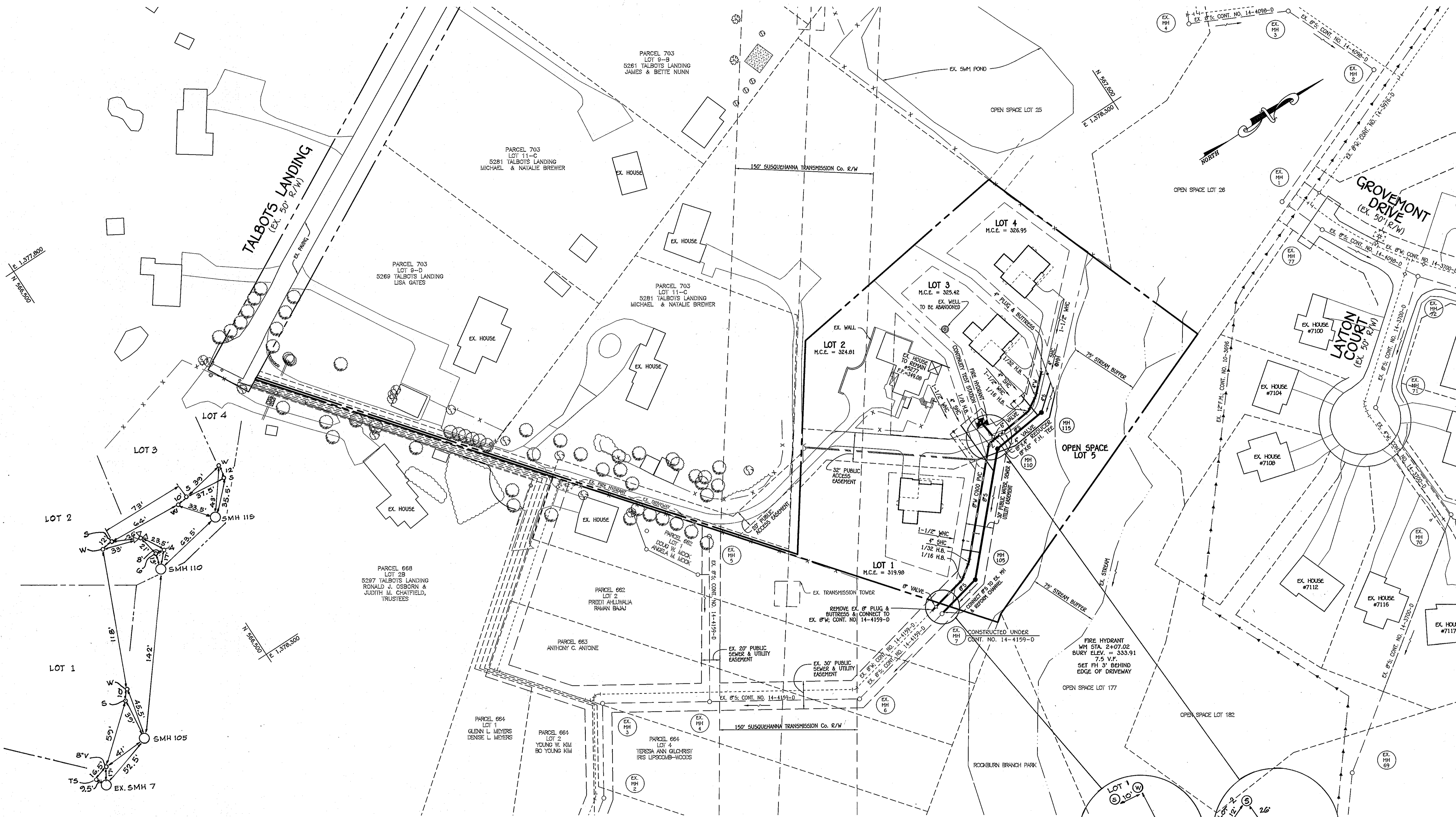
- PART C: SEWER MAIN GENERAL NOTES
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
 - ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
 - FORCE MAINS SHALL BE D.I.P. ONLY.
 - MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
 - MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL C5.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE 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.

OWNER
 ELLCOTT CITY LAND HOLDING, INC.
 c/o MR. DONALD R. REUWER, JR.
 5300 DORSEY HALL DR. - SUITE 102
 ELLCOTT CITY, MARYLAND 21042
 443-367-0422

DEVELOPER
 WELSH PROPERTY, LLC
 4640 ILCHESTER ROAD, LLC
 c/o LAND DESIGN & DEVELOPMENT, INC.
 5300 DORSEY HALL DRIVE - SUITE 102
 ELLCOTT CITY, MARYLAND 21042-7819
 ATTN: MR. DONALD R. REUWER, JR.
 443-367-0422

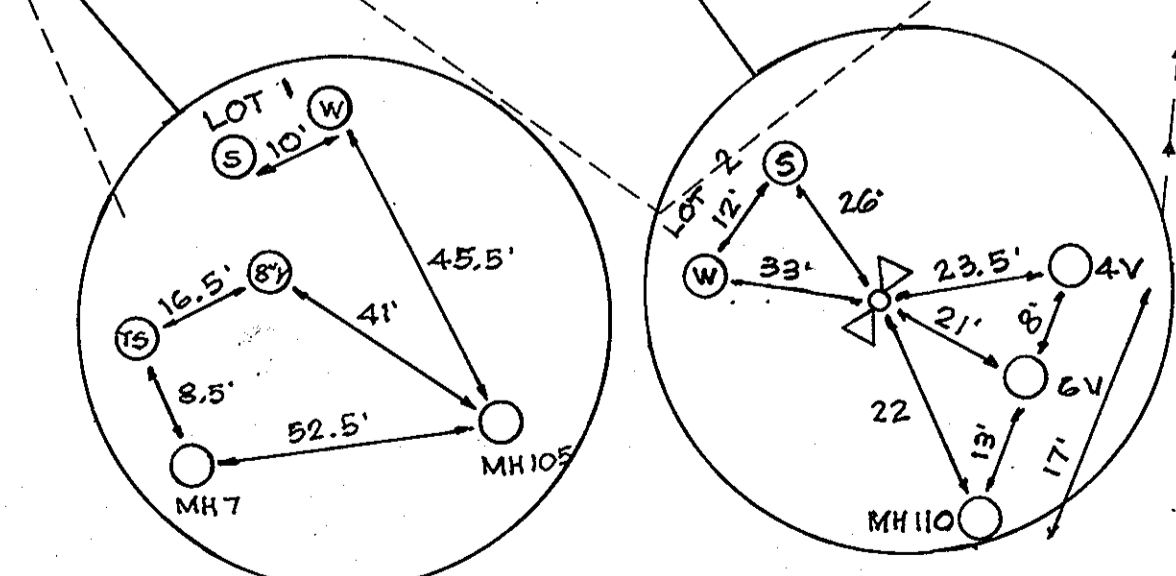
CONTRACT NO. 14-4735-D
 ILCHESTER OAKS II
 BUILDABLE LOTS 1 THRU 4 &
 OPEN SPACE LOT 5
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND	1. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 12043 EXPIRATION DATE IS 7/18/12.	DESIGNED BY: B.C.R. DRAWN BY: B.C.R. CHECKED BY: P.W.K. DATE: MAY, 2012	STATE OF MARYLAND PAUL W. KOEBEL PROFESSIONAL ENGINEER #12043	WATER & SEWER MAIN EXTENSIONS TITLE SHEET	ILCHESTER OAKS II BUILDABLE LOTS 1 THRU 4 & OPEN SPACE LOT 5 WATER & SEWER MAIN EXTENSIONS CONTRACT NO. 14-4735-D FIRST ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 1 OF 4
CHIEF, BUREAU OF UTILITIES 6/4/12	CHIEF, DEVELOPMENT ENGINEERING DIVISION 6/13/12	FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTRAL SQUARE OFFICE PARK - 10772 BALTIMORE NATIONAL PIKE ELICOTT CITY, MARYLAND 21042 (410) 461-2999	DATE: MAY, 2012	PAUL W. KOEBEL	600' SCALE MAP NO. 31 BLOCK NO. 22 F.C.C. WORK ORDER NO. 08034-3001 FILE NAME: WATER & SEWER MAIN EXTENSION TITLE SHEET		



252' - 8" Sewer
LOCATION PLAN
 WATER AND SEWER STRUCTURES
 AND HOUSE CONNECTIONS

PLAN
 SCALE: 1" = 50'

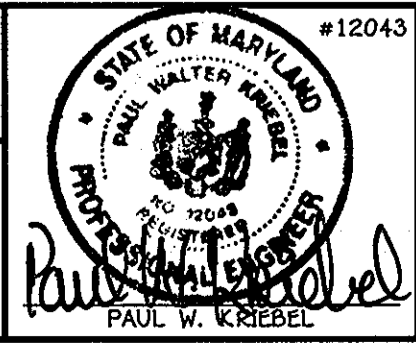


CONTRACT NO. 14-4735-D
 ILCHESTER OAKS II
 BUILDABLE LOTS 1 THRU 4 &
 OPEN SPACE LOT 5
 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
 HOWARD COUNTY, MARYLAND

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE
 PREPARED OR APPROVED BY ME, AND THAT I AM A
 DULY LICENSED PROFESSIONAL ENGINEER UNDER THE
 LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 12243 EXPIRATION DATE IS 7/16/12.



DESIGNED BY :	B.C.R.
DRAWN BY :	B.C.R.
CHECKED BY :	P.W.K.
DATE :	MAY, 2012
BY NO.	
REVISION	
DATE	

**WATER & SEWER MAIN EXTENSIONS
 PLAN**

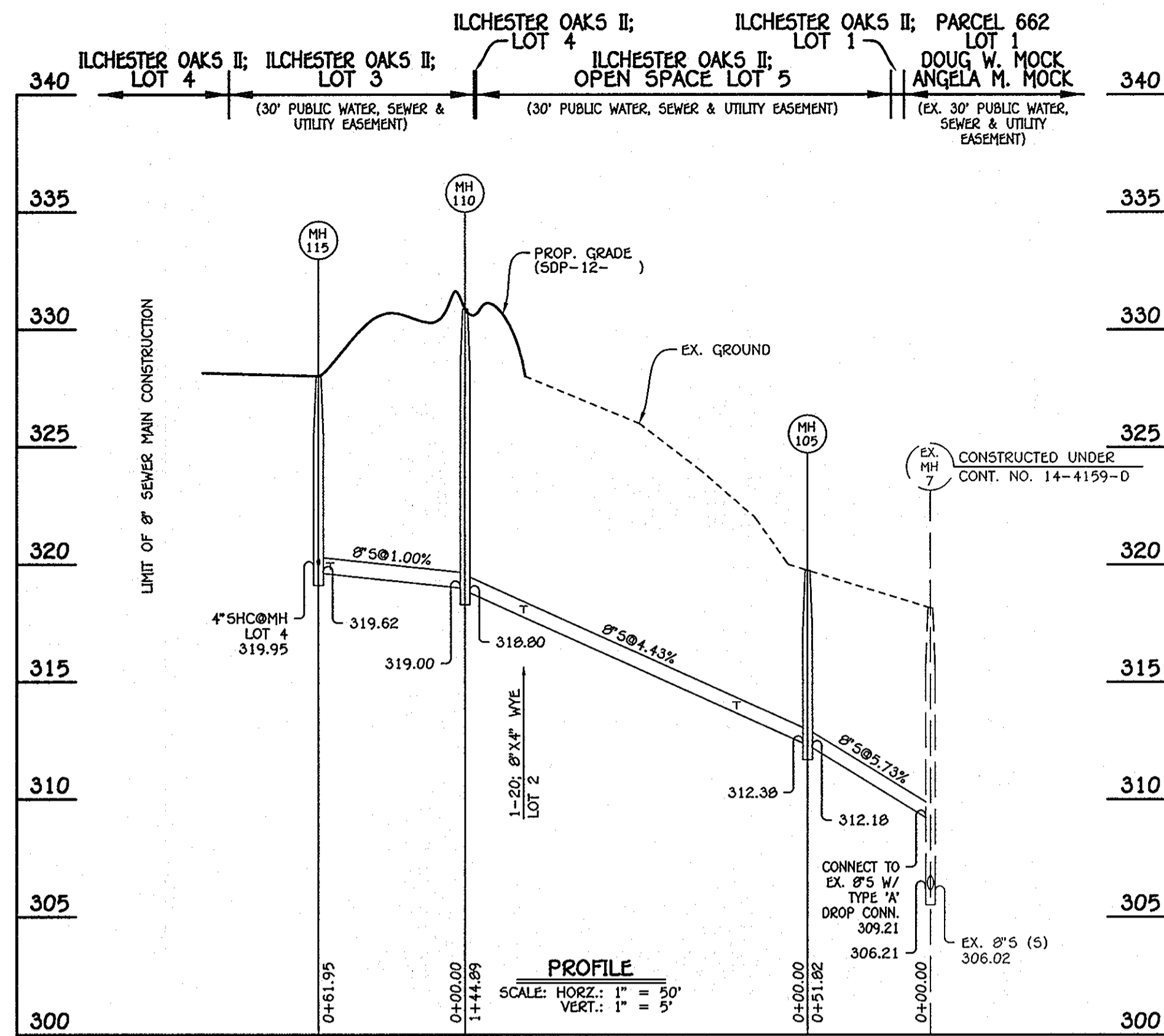
600' SCALE MAP NO. 31 BLOCK NO. 22
 F.C.C. WORK ORDER NO. 08034-3001
 FILE NAME : WATER & SEWER MAIN EXTENSION PLAN SHEET

ILCHESTER OAKS II
 BUILDABLE LOTS 1 THRU 4 &
 OPEN SPACE LOT 5
 WATER & SEWER MAIN EXTENSIONS
 CONTRACT NO. 14-4735-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

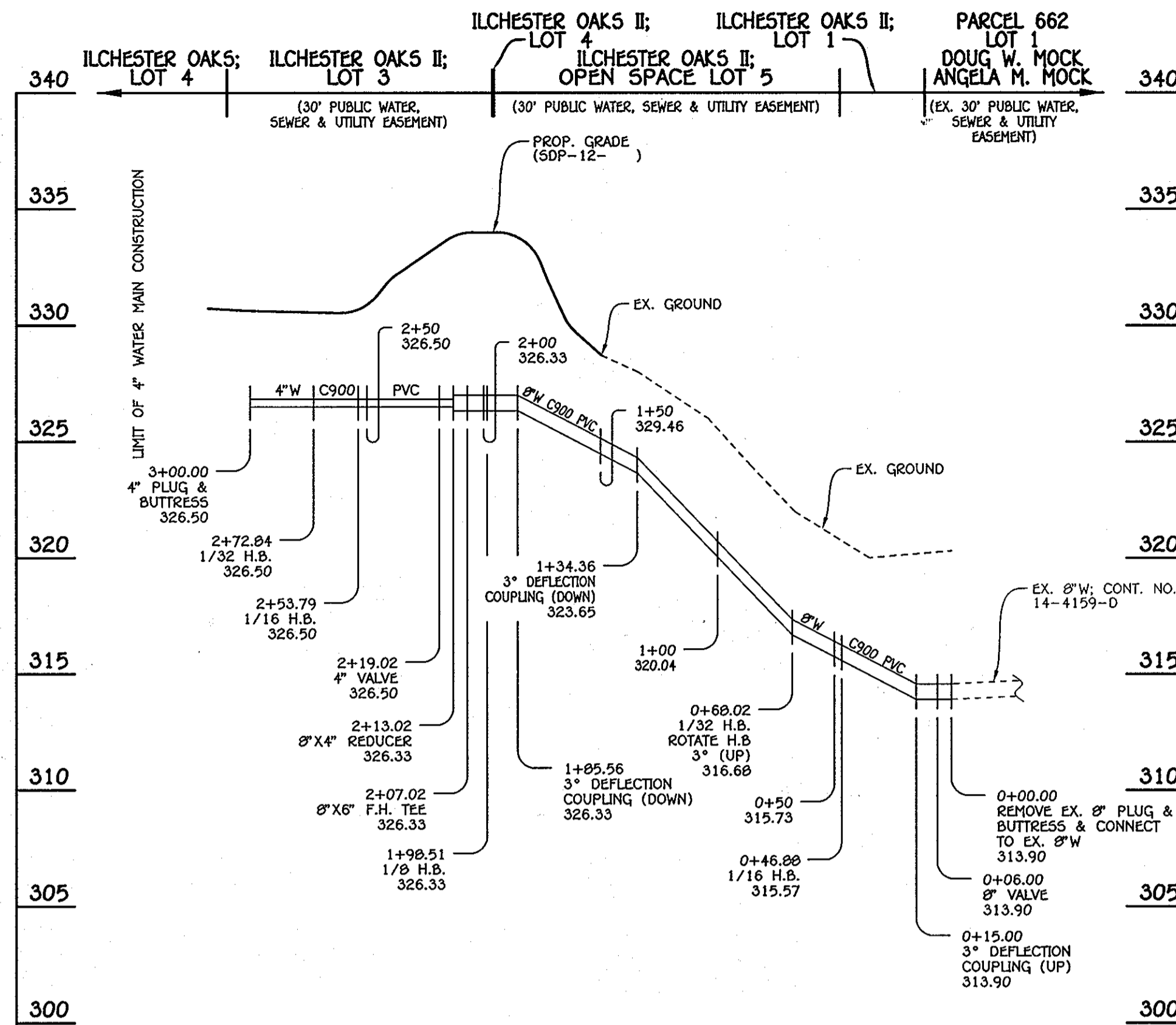
SCALE
 AS
 SHOWN

SHEET
 2 OF 4

1:2009_08034.dwg 9/21/2012 10:19:37 AM
 Chief, Bureau of Utilities
 DATE 6/13/12
 DATE M.G.



8" SEWER MAIN: LOTS 1 THRU 4



8" & 4" WATER MAIN: LOTS 1 THRU 4

MANHOLE TABULATION CHART			
NO.	NORTHING	EASTING	RIM ELEVATION
105	567180.57	1378654.12	319.75
110	567287.09	1378547.87	330.88
115	567348.64	1378540.90	328.00

NOTE: SET MH RIMS FLUSH W/EXISTING GROUND OR PROPOSED GRADE AS APPLICABLE.

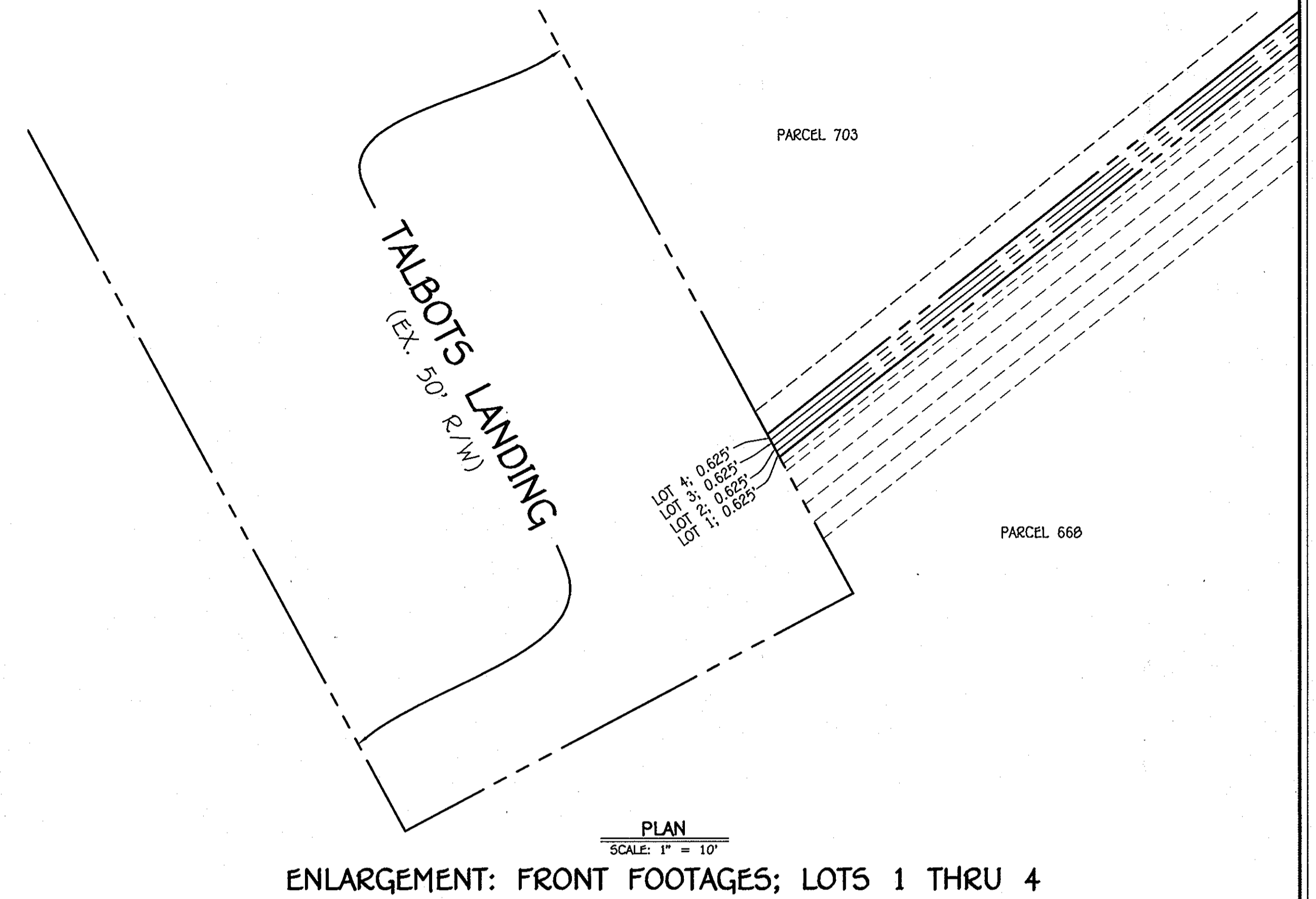
SHC INVERT @ EDGE OF EASEMENT		
STATION	LOT	ELEVATION
MH 105 TO MH 110		
0+30 LT.	1	314.28
1+20 LT. (8"X4" WYE)	2	319.11
MH 110 TO MH 115		
0+57 LT.	3	320.32
@MH 115 RT.	4	320.65

SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE			
LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1		WHC 10'	TO SMH 105 39'
2		WHC 12'	TO FIRE HYDRANT 26'
3		WHC 10'	TO LOT 4 SHC 37.5'
4		WHC	TO SMH 115 35.5'

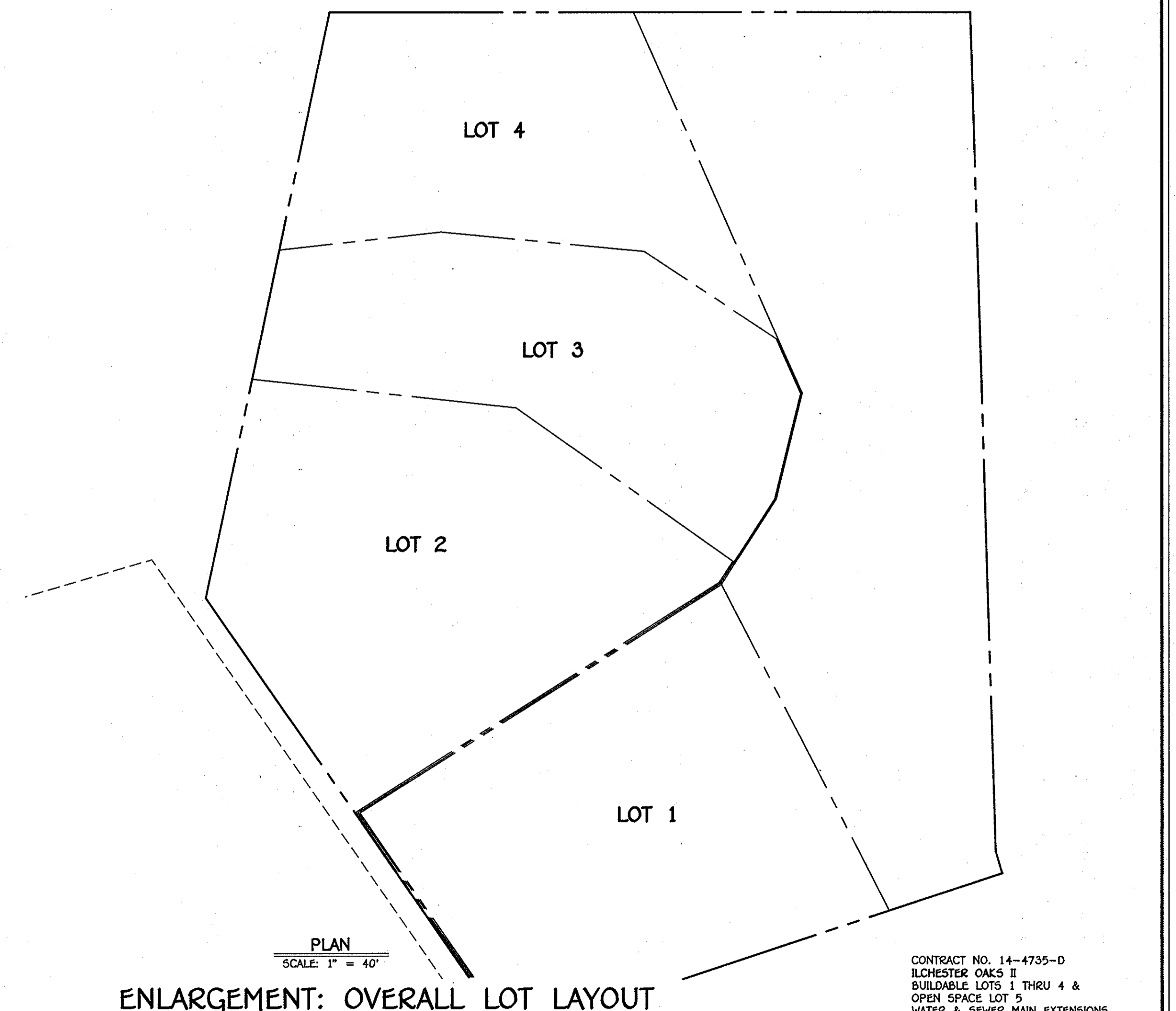
WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" & 4" WATER MAIN LOTS 1 THRU 4			
0+00.00	EXISTING PLUG & BUTTRESS	567130.78	1378656.82
0+06.00	8" VALVE	567136.63	1378655.51
0+46.88	1/16 H.B.	567176.52	1378646.57
0+68.02	1/32 H.B.	567193.55	1378634.04
1+98.51	1/8 H.B.	567282.28	1378538.35
2+07.02	8"X6" F.H. TEE	567290.73	1378537.39
2+13.02	8"X4" REDUCER	567296.69	1378536.72
2+19.02	4" VALVE	567302.65	1378536.04
2+53.79	1/16 H.B.	567337.20	1378532.13
2+72.84	1/32 H.B.	567353.24	1378522.35
3+00.00	4" PLUG & BUTTRESS	567373.15	1378503.55

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE			
LOT NUMBER	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1		SHC 10'	TO SMH 105
2		SHC 12'	TO FIRE HYDRANT 33'
3		SHC 10'	TO 4" VALVE 38.5'
4		SHC 12'	TO SMH 115 43'

- WATER MAIN NOTES:**
- ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE, DR-18.
 - ALL PIPE BEDDING, TRACER WIRE, LOCATING TAPE AND OTHER APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME II - WATER AND SEWER STANDARDS FOR AWWA C900 PVC WATER PIPE INSTALLATION.
 - DEFLECTION COUPLINGS SHALL BE CERTAIN-TREED PVC HIGH DEFLECTION COUPLINGS.
 - ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.



ENLARGEMENT: FRONT FOOTAGES; LOTS 1 THRU 4



ENLARGEMENT: OVERALL LOT LAYOUT

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

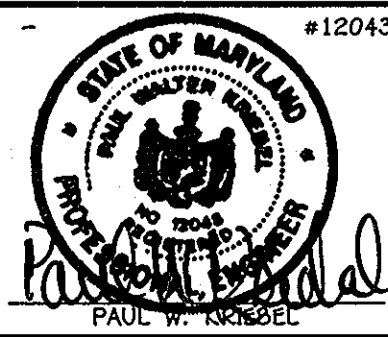
Silva C. Uem
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Michael J. Uem
CHIEF, DEVELOPMENT ENGINEERING DIVISION

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 12043 EXPIRATION DATE 5/31/12.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLSWORTH CITY, MARYLAND 21042
(410) 461-2995



DESIGNED BY: B.C.R.
DRAWN BY: B.C.R.
CHECKED BY: P.W.K.
DATE: MAY, 2012

WATER & SEWER MAIN EXTENSIONS
PROFILES, CHARTS & TABLES
FRONT FOOTAGE ENLARGEMENT

600' SCALE MAP NO. 31 BLOCK NO. 22
F.C.C. WORK ORDER NO. 08034-3001
FILE NAME: WATER & SEWER MAIN EXTENSION PROFILES

ILCHESTER OAKS II
BUILDABLE LOTS 1 THRU 4 &
OPEN SPACE LOT 5
WATER & SEWER MAIN EXTENSIONS
CONTRACT NO. 14-4735-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 3 OF 4

CONTRACT NO. 14-4735-D
ILCHESTER OAKS II
BUILDABLE LOTS 1 THRU 4 &
OPEN SPACE LOT 5
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

SECTION 20: STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

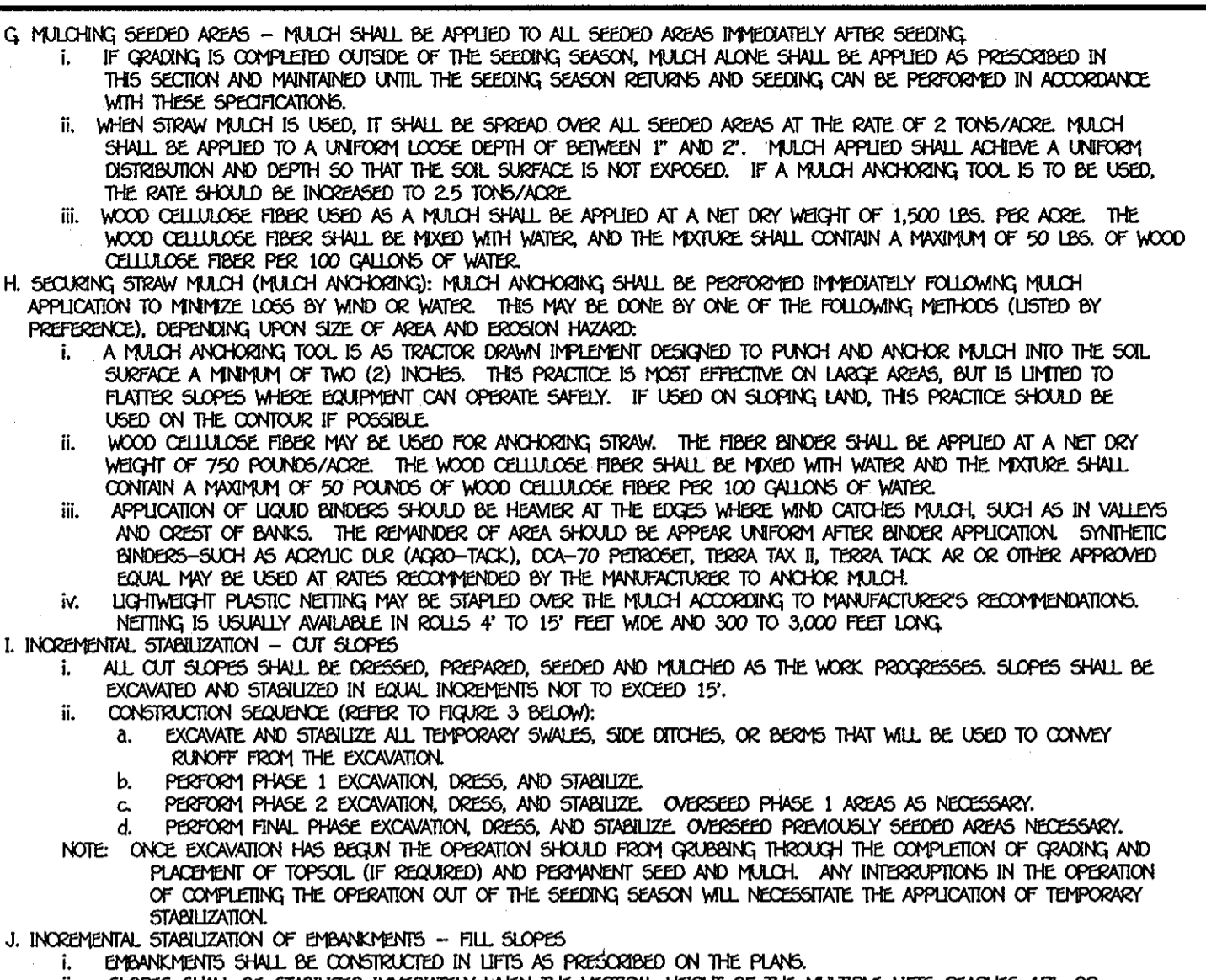
DEFINITION
USING VEGETATION TO PROTECT IT FROM FORCES THAT CAUSE EROSION.
PURPOSE
VEGETATIVE STABILIZATION SPECIFICATIONS ARE USED TO PROMOTE THE ESTABLISHMENT OF VEGETATION ON EXPOSED SOIL...

EFFECTS ON WATER QUALITY AND QUANTITY
PLANTING VEGETATION IN DISTURBED AREAS WILL HAVE AN EFFECT ON THE WATER BUDGET, ESPECIALLY ON VOLUMES AND RATES OF RUNOFF...

A. SITE PREPARATION
I. INITIAL EROSION AND SEDIMENT CONTROL STRUCTURES (EITHER TEMPORARY OR PERMANENT) SUCH AS DIMENSIONS, GRADE STABILIZATION STRUCTURES, BERMS, WATERWAYS, OR SEDIMENT CONTROL BASINS.

D. SEED SPECIFICATIONS
I. ALL SEED MUST MEET THE REQUIREMENTS OF THE MARYLAND STATE SEED LAW. ALL SEED SHALL BE SUBJECT TO RE-TESTING BY A RECOGNIZED SEED LABORATORY...

F. MULCH SPECIFICATIONS (IN ORDER OF PREFERENCE)
I. STRAW SHALL CONSIST OF THOROUGHLY THRESHED WHEAT, OYE OR OAT STRAW, REASONABLE HEIGHT IN COLOR, AND SHALL NOT BE MUSTY, MOLDY, OAKED, DECAYED, OR EXCESSIVELY DUSTY...



- CONSTRUCTION SPECIFICATIONS
1. FENCE POSTS SHALL BE A MINIMUM OF 36" LONG DRIVEN 16" MINIMUM INTO THE GROUND...

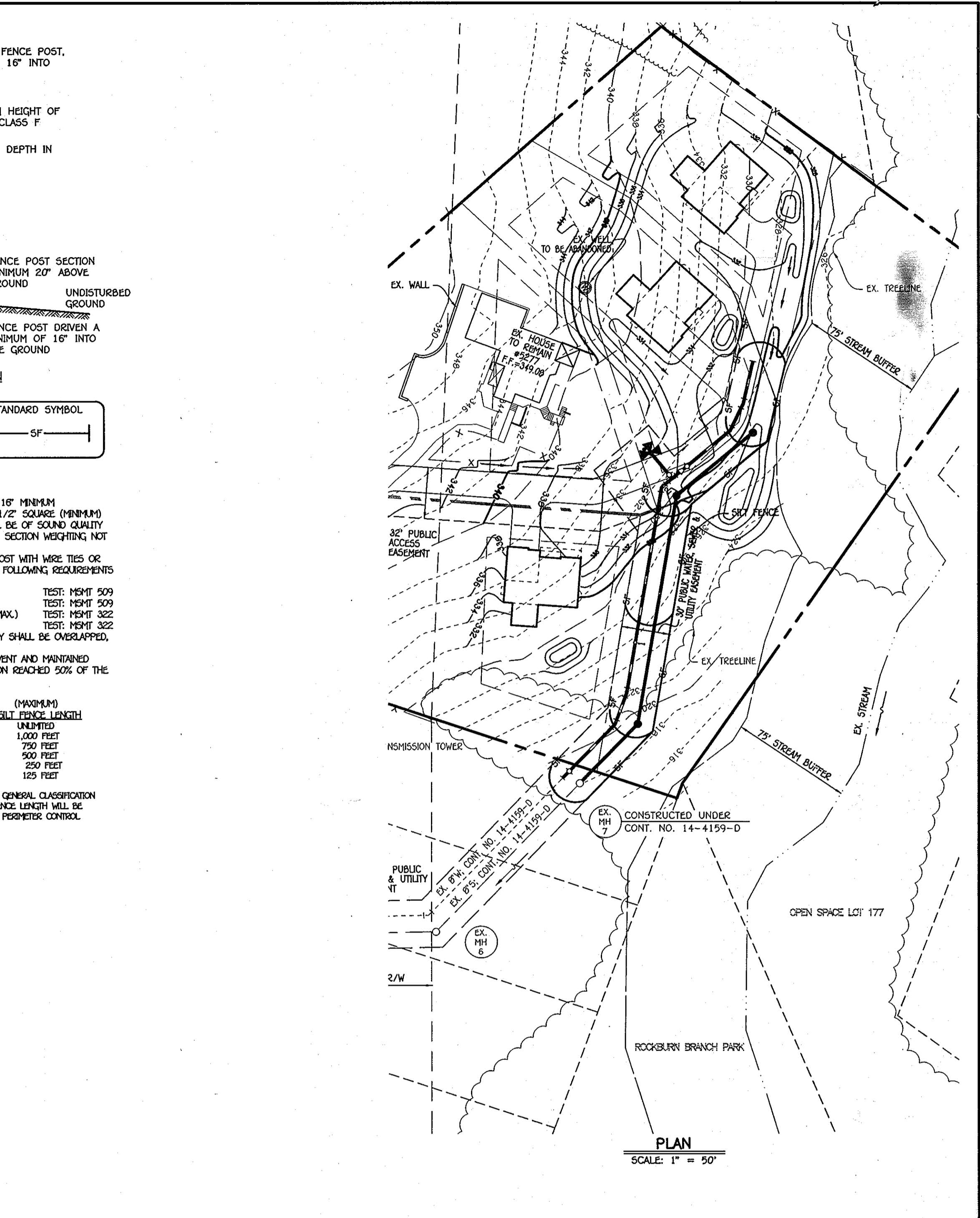
SEDIMENT CONTROL NOTES
1) A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION...

SECTION 21: STANDARD AND SPECIFICATIONS FOR TOPSOIL
DEFINITION: PLACEMENT OF TOPSOIL OVER A PREPARED SUBSOIL PRIOR TO ESTABLISHMENT OF PERMANENT VEGETATION.

SEQUENCE OF CONSTRUCTION
1. OBTAIN THE REQUIRED GRADING PERMIT.
2. NOTIFY THE UTILITY 48 HOURS BEFORE ANY WORK.

ENGINEER'S CERTIFICATION
I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS...

Table with columns for DESIGNED BY, DRAWN BY, CHECKED BY, DATE, and REVISION.



CONTRACT NO. 14-4735-D
ILCHESTER OAKS II
BUILDABLE LOTS 1 THRU 4 & OPEN SPACE LOT 5
WATER & SEWER MAIN EXTENSIONS

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
CHIEF, DEVELOPMENT/ENGINEERING DIVISION

FISHER COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE

SEDIMENT CONTROL PLAN, NOTES & DETAILS
600' SCALE MAP NO. 21 BLOCK NO. 22
F.C.C. WORK ORDER NO. 08031-3001

SCALE AS SHOWN
SHEET 4 OF 4