

QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
8" SEWER	334 L.F.			
4" SEWER	138 L.F.			
MANHOLES	1 EACH			
8" WATER	106 L.F.			
6" WATER	206 L.F.			
1-1/2" WHC	202 L.F.			
6" VALVE	1 EACH			
8"x6" TEE	1 EACH			
6" PLUG & BUTTWELD	1 EACH			
8"x6" REDUCER	1 EACH			
FIRE HYDRANT	1 EACH			
OUTSIDE METER SETTING	8 EACH			
CONTINUITY TEST STATION	1 EACH			

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

PRIVATE WELL & PRIVATE SEPTIC SYSTEM CHART				
BUILDABLE BULK PARCEL NO.	ADDRESS	OWNER	ABANDON WELL	ABANDON SEPTIC
14	5171 TALBOTS LANE	JOHN & CYNTHIA REEBEL	YES	YES

NOTE: WATER METERS WILL NOT BE REQUIRED BY HOWARD COUNTY TO ANY NEW BUILDING UNLESS THE BUILDING HAS A PRIVATE SEPTIC SYSTEM. SEPTIC SYSTEMS ARE REGULATED IN ACCORDANCE WITH HOWARD COUNTY HEALTH DEPARTMENT REGULATIONS AND THE EXISTING BUILDINGS ARE CONNECTED TO THE PUBLIC WATER AND SEWER MAINS.

BENCHMARK INFORMATION

B.M.#1 - HOWARD COUNTY CONTROL STATION #31EA (NAD '83)
(APPROX. 50' NORTHEAST OF THE INTERSECTION OF ILCHESTER ROAD & ILCHESTER WOODS WAY, ABOUT 2' BEHIND THE SIDEWALK.)
N 569,841.1294
E 1,374,816.0275
ELEVATION = 468.900

B.M.#2 - HOWARD COUNTY CONTROL STATION #31EB (NAD '83)
(LOCATED ALONG THE SOUTH SIDE OF TALBOTS LANDING, APPROX. 13' FROM THE CENTERLINE OF ROAD.)
N 568,730.9925
E 1,376,273.5708
ELEVATION = 452.700

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. Kriebel, FOR:
Ellicott City Land Holding, Inc. 11-17-10
SIGNATURE OF DEVELOPER DATE

ENGINEER'S CERTIFICATION

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

Paul W. Kriebel 11/17/10
SIGNATURE OF ENGINEER DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 309 OF THE HOWARD COUNTY DESIGN MANUAL - VOLUME IV: STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND AS SHOWN ON SDP-11-007.

Paul W. Kriebel, FOR:
Ellicott City Land Holding, Inc. 11-17-10
SIGNATURE OF DEVELOPER DATE

GP-09-028

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

APPROVED:
John R. Robertson 12/7/10
HOWARD SOIL CONSERVATION DISTRICT DATE

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 QUALIFIED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 12043 EXPIRATION DATE IS 7/16/12.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE: PK3 - 10272 BALTIMORE NATIONAL PKZ
ELICOTT CITY, MARYLAND 21042
(410) 461-2895



DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.W.K.
DATE:	NOVEMBER, 2010
BY:	NO.
REVISION:	

WATER AND SEWER MAINS
TITLE SHEET

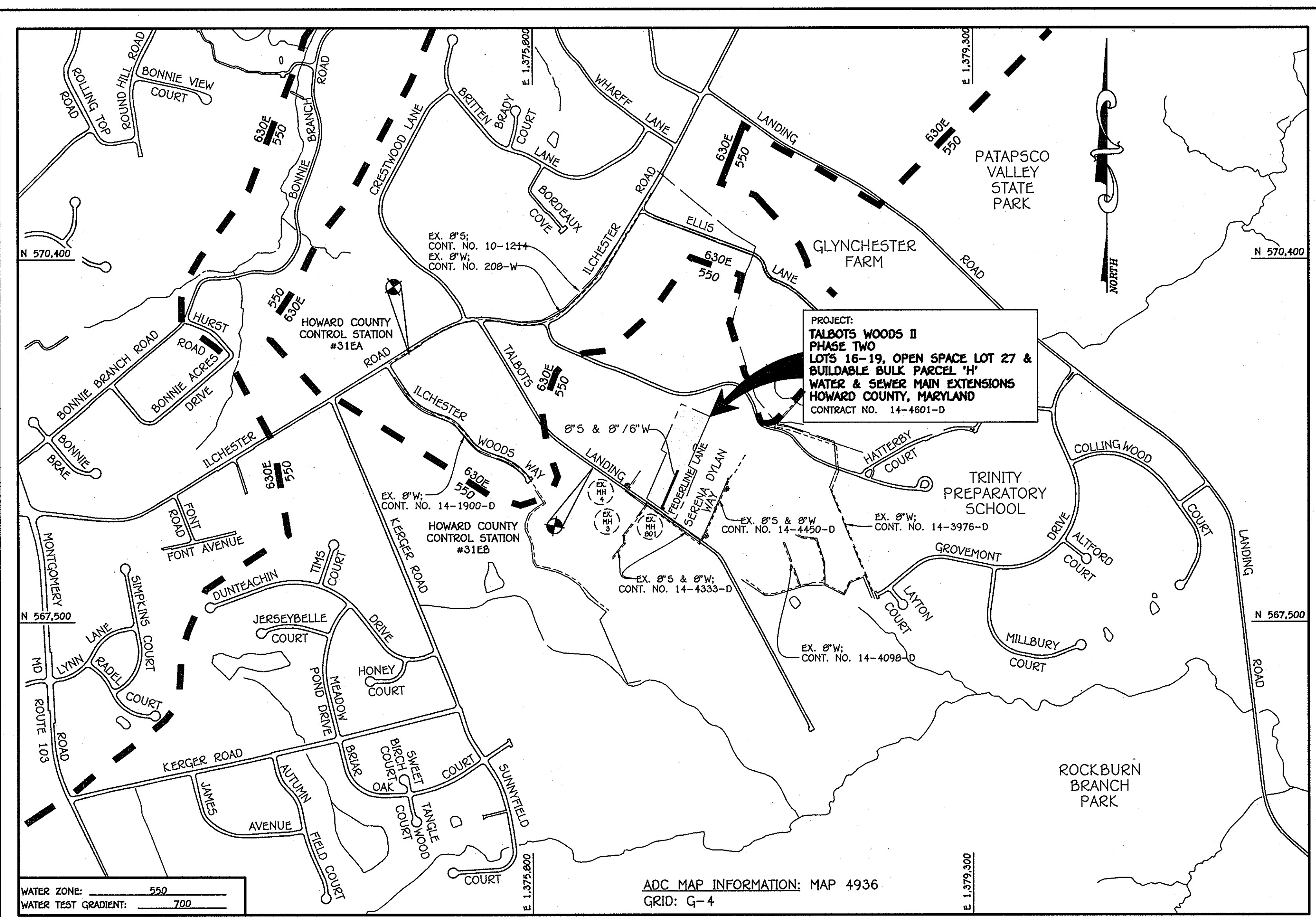
60' SCALE MAP NO. 31 BLOCK NO. 16
F.C.C. WORK ORDER NO. 06053
FILE NAME: WATER AND SEWER MAIN EXTENSION TITLE SHEET

DEVELOPER

ELICOTT CITY LAND HOLDING, INC.
5300 DODD HALL DRIVE
SUITE 102
ELICOTT CITY, MARYLAND 21042
ATTN: MR. DONALD R. REUWER, JR.
443-367-0422

CONTRACT NO. 14-4601-D
TALBOTS WOODS II
LOTS 16-19, OPEN SPACE LOT 27 &
BUILDABLE BULK PARCEL 'H'
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 1 OF 3

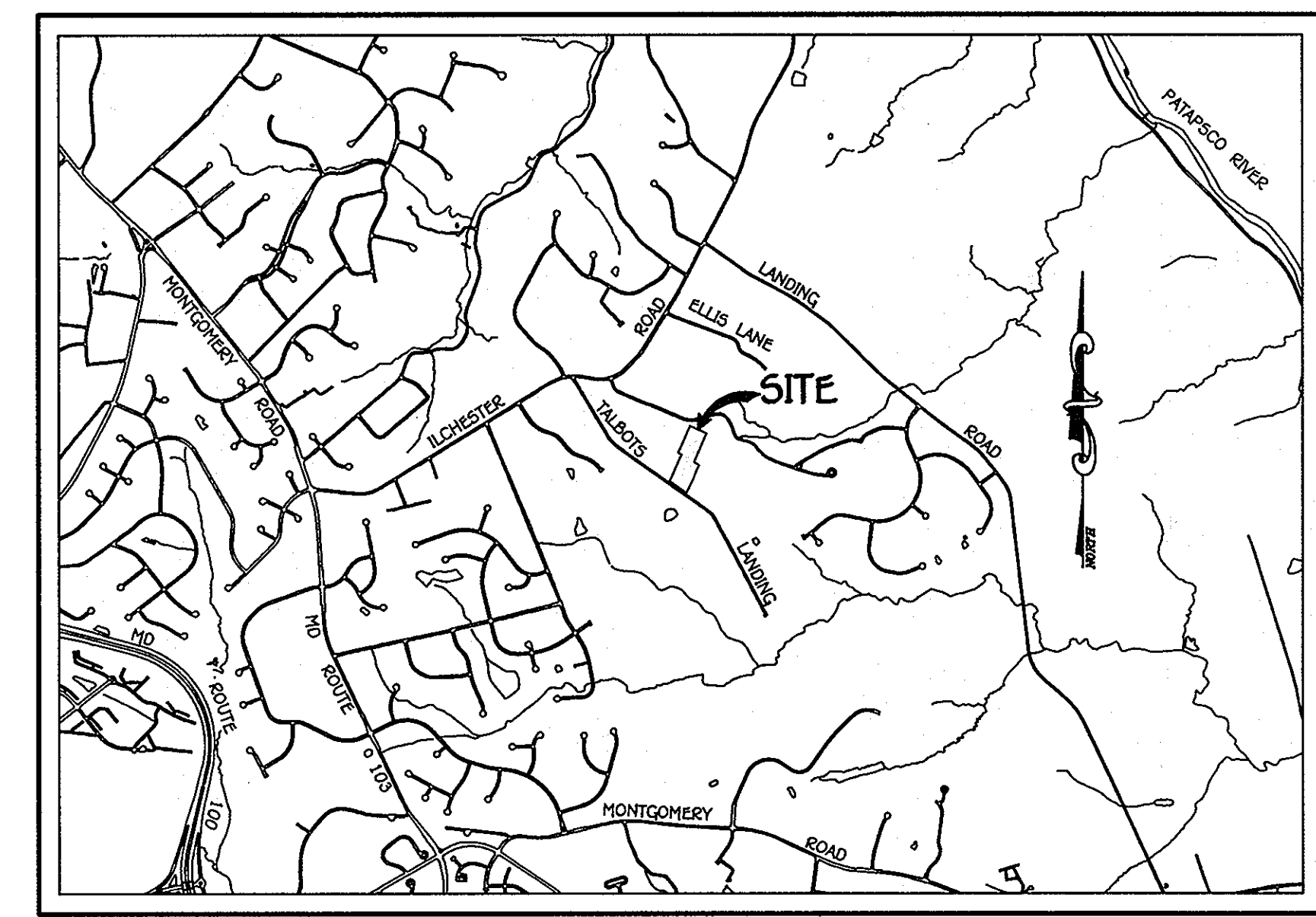


TYPE OF BUILDING:	RESIDENTIAL - SINGLE FAMILY DETACHED
NUMBER OF LOTS:	9 (2 BUILDABLE)
NO. OF WATER HOUSE CONNECTIONS:	2
NO. OF SEWER HOUSE CONNECTIONS:	2
DRAINAGE AREA:	PATAPSCO
TREATMENT PLANT:	PATAPSCO WASTEWATER TREATMENT PLANT, CITY OF BALTIMORE

VICINITY MAP

SCALE: 1" = 600'

PLAN REFERENCE NUMBERS:
P-09-009 SDP-11-007
F-11-025 (RECORD PLAT)

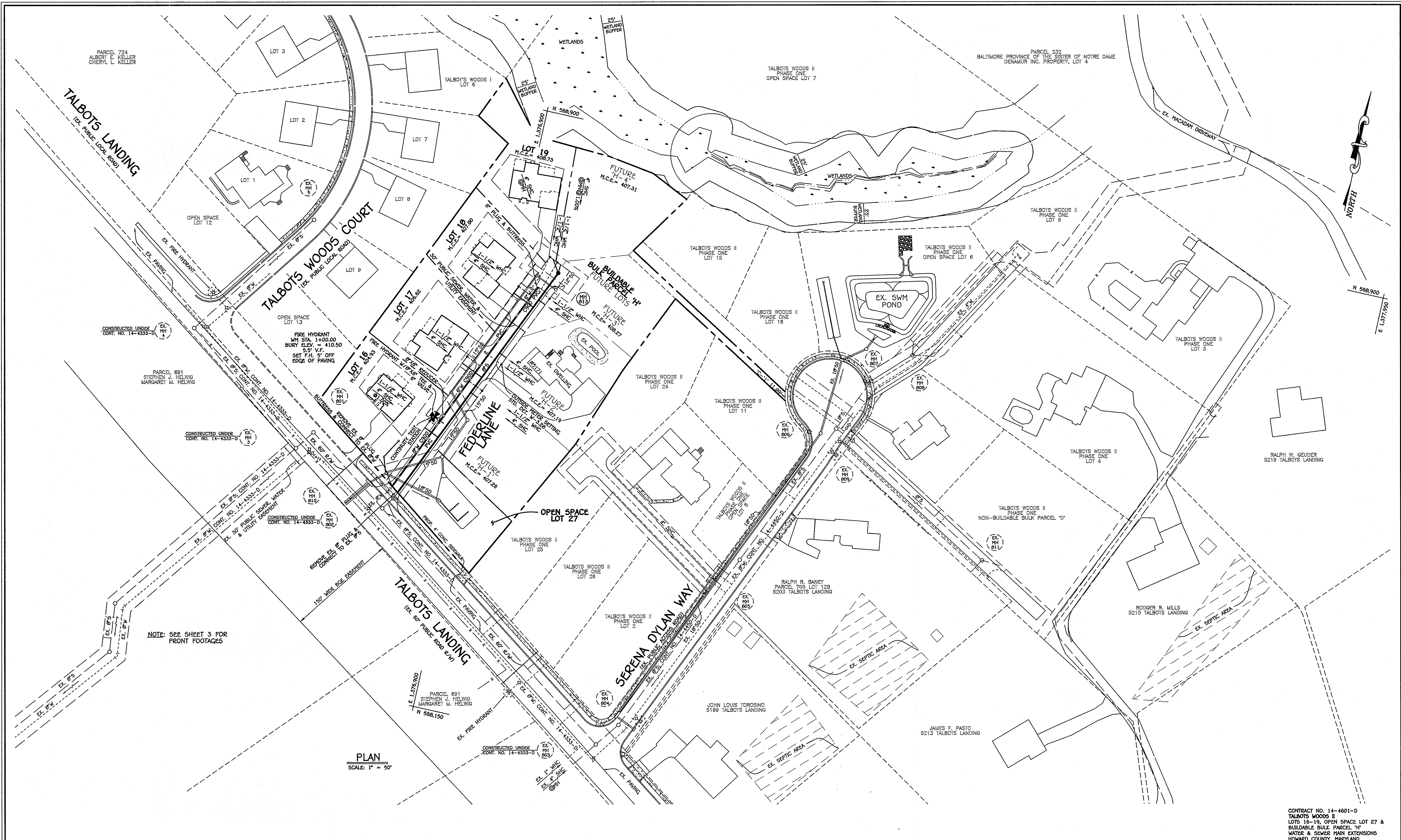


LOCATION MAP

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 OCTOBER, 2006 BY FISHER, COLLINS & CARTER, INC.
 - HORIZONTAL AND VERTICAL SURVEY CONTROL:
 - THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/91' AS PROJECTED BY HOWARD COUNTY GEODETIC STATIONS NO. 31EA & NO. 31EB.
 - ALL VERTICAL CONTROLS ARE AS INDICATED IN THE BENCHMARK INFORMATION. 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 (CONSTRUCTION SERVICES) 410-637-8713
 - BGE (EMERGENCY) 410-695-0123
 - 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
 - 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**
- PVC C 900
- ALL WATER MAINS SHALL BE 8" x 11.5" x 54 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.
 - 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.
 - 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 1005 OF THE STANDARD SPECIFICATIONS.
 - THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
 - FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE ANNA STANDARD CODE 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 HARNESSES. ZINC ANODES SHALL BE INSTALLED ON ALL STAINLESS STEEL FITTINGS AND SADDLES USED WITH PVC MAINS. ALL "TRES" USED WITH PVC MAINS SHALL BE DUCTILE IRON.
 - ALL DWELLING UNITS SHALL HAVE A 1-1/2" WATER HOUSE CONNECTION WITH A 1" OUTSIDE METER SETTING; STD. DET. W-3.28.
- PART C: SEWER MAIN GENERAL NOTES**
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. AS SPECIFIED ON PLANS.
 - 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 COVER, STANDARD DETAIL G5.52.
 - WHERE WATER-TIGHT 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.



NOTE: SEE SHEET 3 FOR FRONT FOOTAGES

PLAN
SCALE: 1" = 50'

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. 12043 EXPIRATION DATE IS 7/18/12.



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SOURCE OFFICE PARK - 10225 BALTIMORE NATIONAL PIKE
ELLETT CITY, MARYLAND 21746
(410) 461-2025

DESIGNED BY:	B.C.R.
DRAWN BY:	B.C.R.
CHECKED BY:	P.W.K.
DATE:	NOVEMBER, 2010
BY NO.	
REVISION	
DATE	

WATER AND SEWER MAINS PLAN	
600' SCALE MAP NO.	31 BLOCK NO. 16
F.C.C. WORK ORDER NO.	06053
FILE NAME:	WATER AND SEWER MAIN EXTENSION SHEET

TALBOTS WOODS II
PHASE TWO
LOTS 16-19, OPEN LOT 27 & BUILDABLE BULK PARCEL 'H'
WATER & SEWER MAIN EXTENSIONS
CONTRACT NO. 14-4601-D
FIRST ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

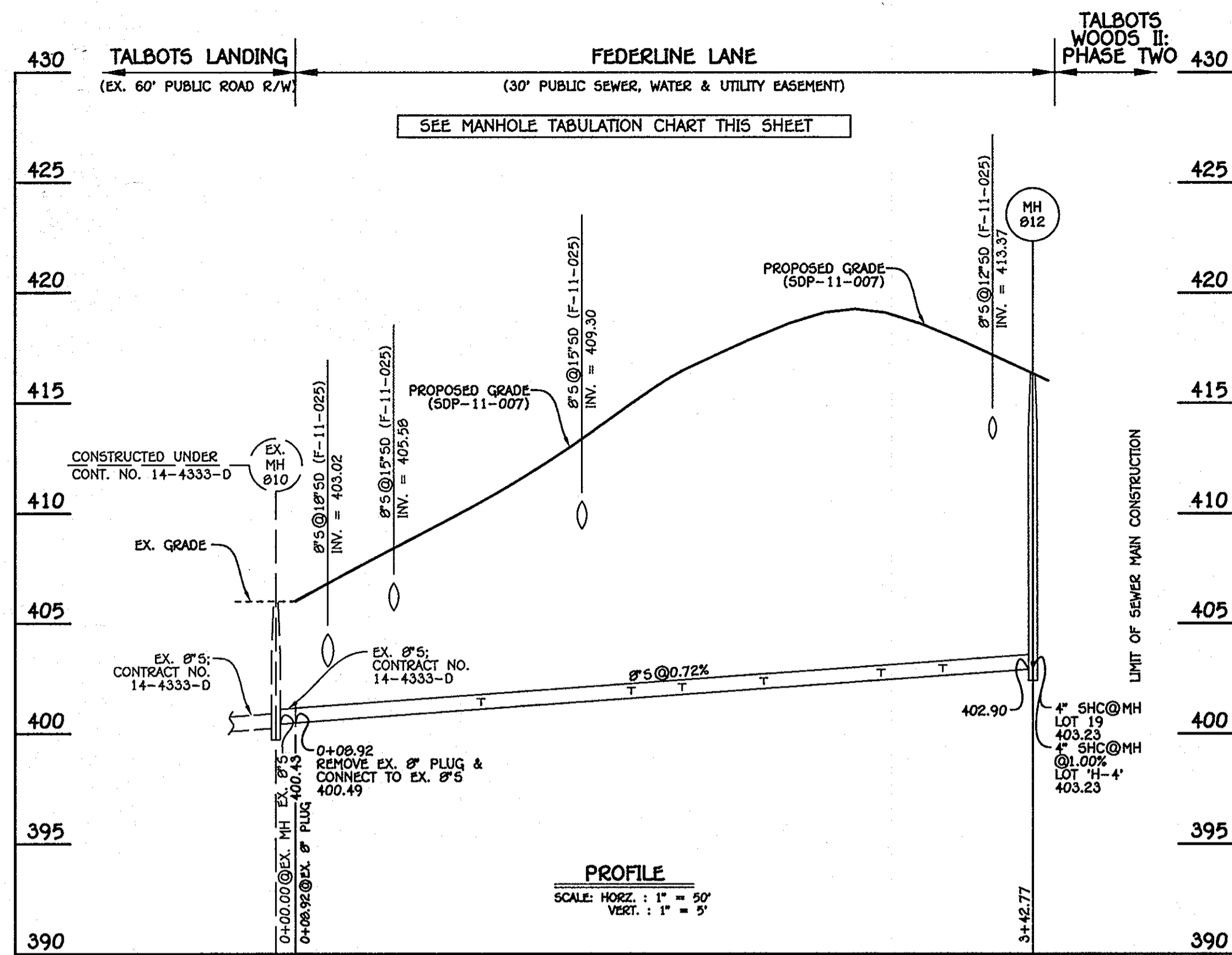
SCALE AS SHOWN
SHEET 2 OF 3

Allen C. Lewis
CHIEF, BUREAU OF UTILITIES

Paul W. Stuebel
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 12/10/10

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CONTRACT NO. 14-4601-D
TALBOTS WOODS II
LOTS 16-19, OPEN LOT 27 &
BUILDABLE BULK PARCEL 'H'
WATER & SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND

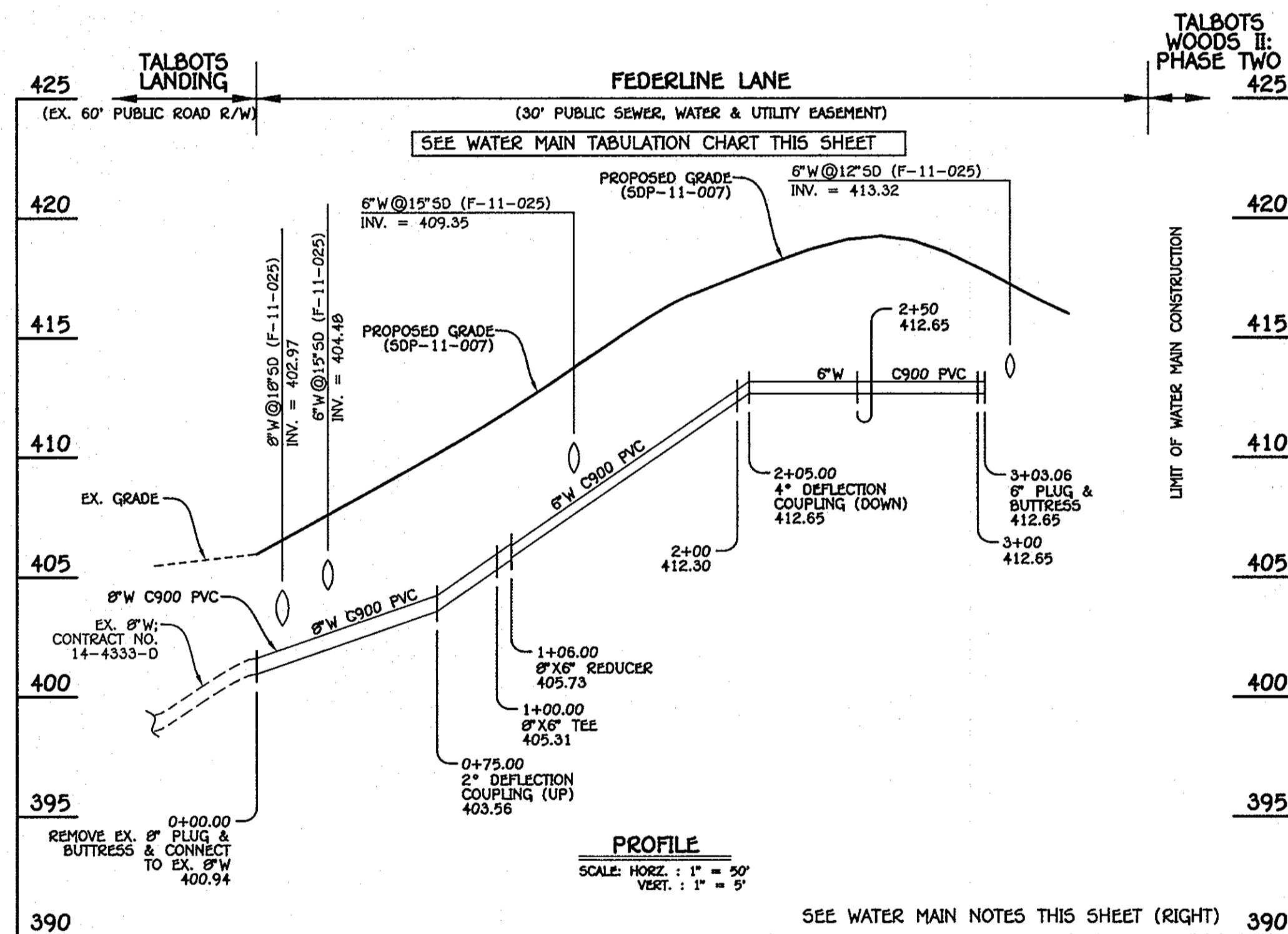


8" SEWER MAIN: FEDERLINE LANE

MANHOLE TABULATION CHART			
NO.	NORTHING	EASTING	RIM ELEVATION
012	568708.65	1376956.67	416.30

*SET MH RIM FLUSH W/PROPOSED GRADE

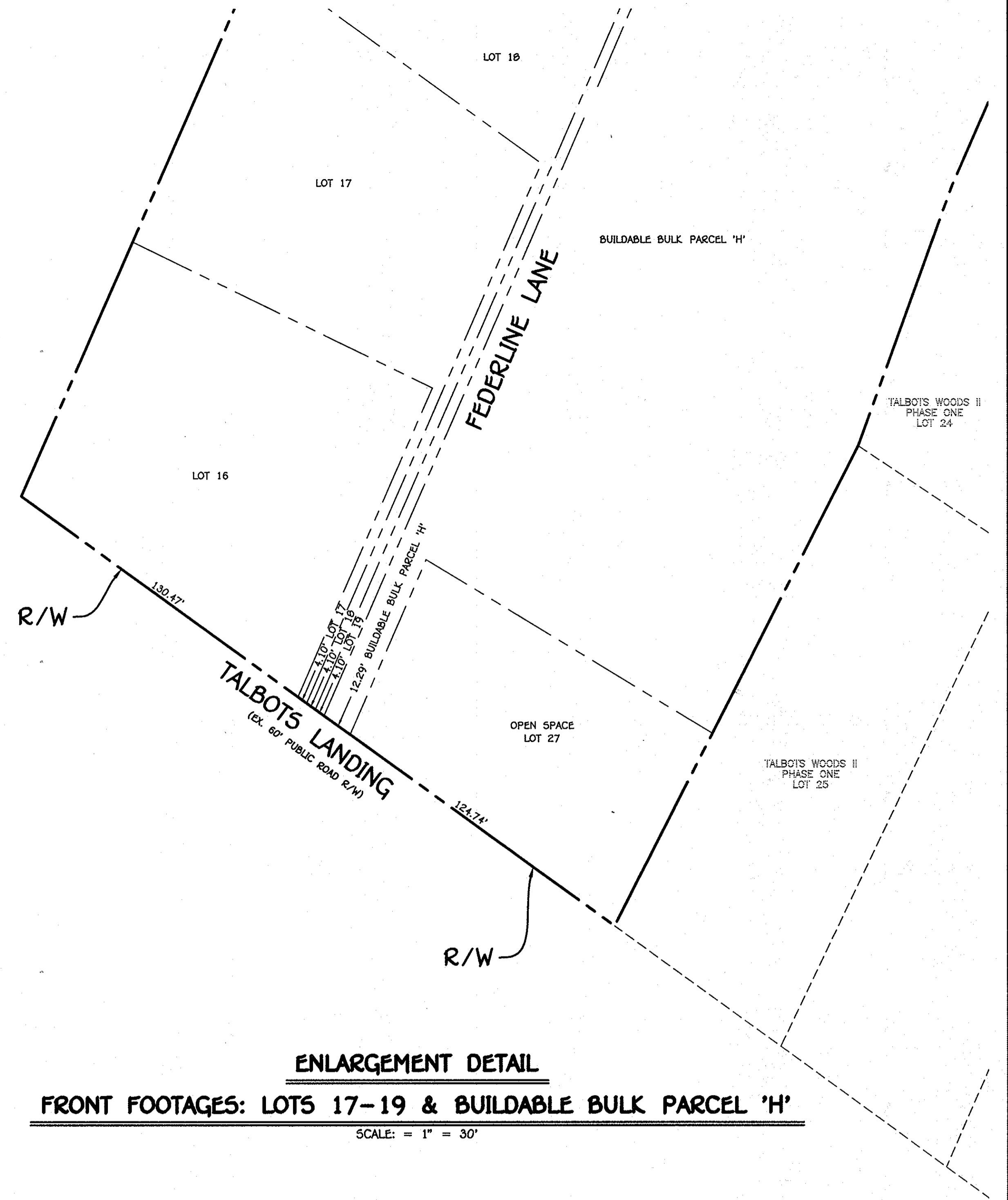
SHC INVERT @ PROPERTY LINE CHART		
STATION	LOT	ELEVATION
EX. MH 010 TO MH 012		
0+93 LT.	16 (@1.00%)	401.47
1+61 RT.	"H-1"	401.96
1+84 LT.	17	402.52
2+21 RT.	"H-2"	402.39
2+91 LT.	18	403.30
3+02 RT.	"H-3"	402.97
@ MH 012 LT.	19	403.43
@ MH 012 CEN.	"H-4" (@1.00%)	403.41



8" & 6" WATER MAIN: FEDERLINE LANE

- WATER MAIN NOTES:**
1. ALL WATER MAINS SHALL BE AWWA C900 PVC PIPE.
 2. 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.
 3. DEFLECTION COUPLINGS SHALL BE CERTAIN-TEED PVC HIGH DEFLECTION COUPLINGS.
 4. ALL WATER HOUSE CONNECTIONS AND TAPS SHALL BE PERFORMED USING A SADDLE.

WATER MAIN TABULATION CHART			
W.M. STA.	APPURTENANCE	NORTHING	EASTING
8" & 6" WATER MAIN: FEDERLINE LANE			
0+00.00	CONNECT TO EX. 8"W	568408.43	1376815.46
1+00.00	8"X6" TEE	568500.16	1376825.26
1+06.00	8"X6" REDUCER	568505.65	1376827.65
3+03.06	6" PLUG & BUTTRESS	568686.42	1376936.13



ENLARGEMENT DETAIL
FRONT FOOTAGES: LOTS 17-19 & BUILDABLE BULK PARCEL 'H'
 SCALE: = 1" = 30'

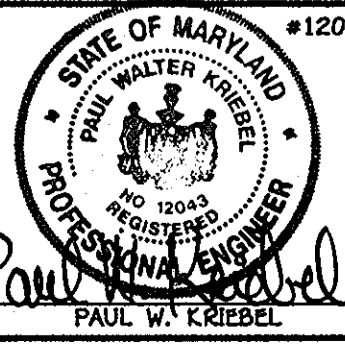
CONTRACT NO. 14-4601-D
 TALBOTS WOODS II
 LOTS 16-19, OPEN SPACE LOT 27 &
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 WATER & SEWER MAIN EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities

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

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 CENTRAL SOURCE OFFICE PARK - 10272 BALDORNE NATIONAL PIKE
 ELLETTT CITY, MARYLAND 21042
 (410) 461-2892



DESIGNED BY : B.C.R.
 DRAWN BY : B.C.R.
 CHECKED BY : P.W.K.
 DATE : NOVEMBER, 2010

WATER AND SEWER MAINS
 PROFILES, CHARTS & DETAIL

600' SCALE MAP NO. 31 BLOCK NO. 16
 F.C.C. WORK ORDER NO. 06053
 FILE NAME : WATER AND SEWER MAIN EXTENSION PROFILE SHEET

TALBOTS WOODS II
 PHASE TWO
 LOTS 16-19, OPEN SPACE LOT 27 & BUILDABLE BULK PARCEL 'H'
 WATER & SEWER MAIN EXTENSIONS
 CONTRACT NO. 14-4601-D
 FIRST ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 3 OF 3