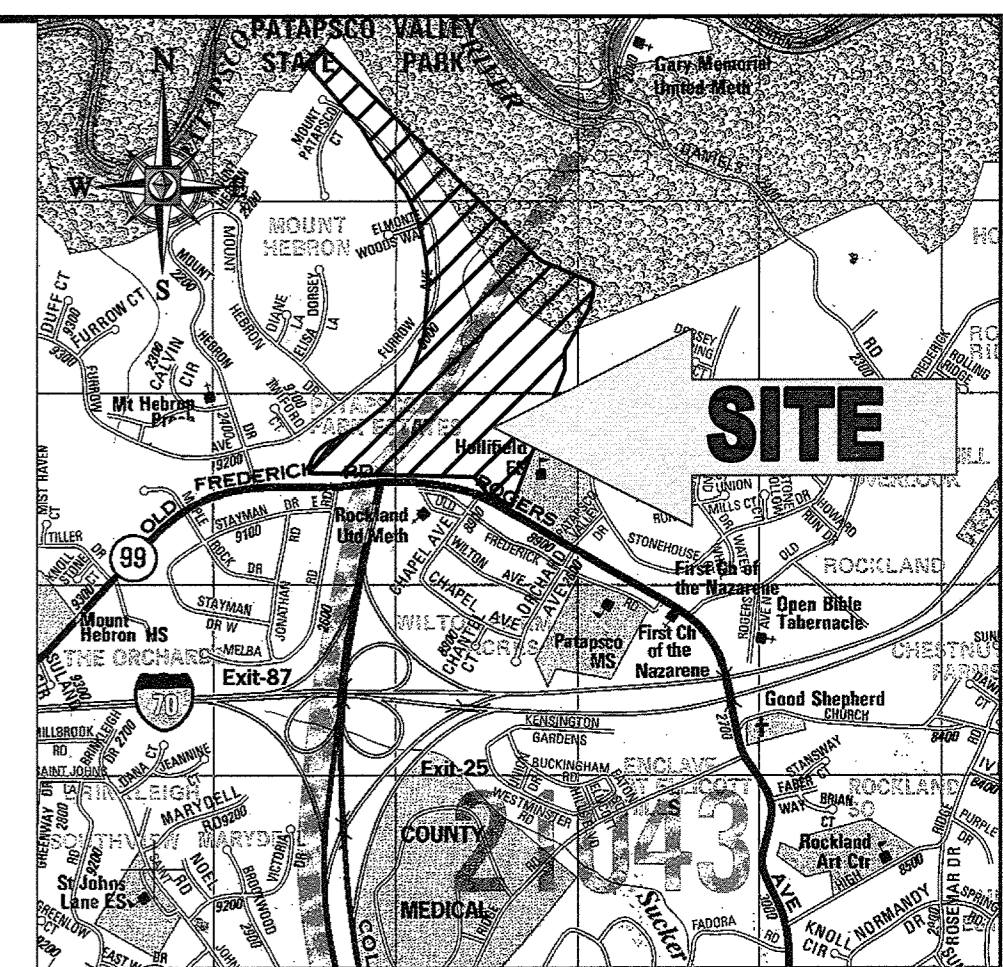


PHASE III PUBLIC WATER & SEWER FINAL CONSTRUCTION PLANS FOR ESTATES AT PATAPSCO PARK



LEGEND

- ⊕ PROPOSED FIRE HYDRANT
- PROPOSED WATER MAIN
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY TERMINAL MANHOLE
- W— EXISTING WATER MAIN
- S— EXISTING SANITARY SEWER
- ⊙ EXISTING SANITARY MANHOLE
- ⊙ EXISTING WATER VALVE
- ⊙ PROPOSED WATER VALVE
- ⊙ EXISTING WATER VALVE
- PROPOSED WATER BEND
- PROPOSED SEWER HOUSE CONNECTION
- PROPOSED WATER HOUSE CONNECTION
- DOMESTIC WATER METER
- SEWER CLEANOUT
- UTILITY TEST PIT LOCATION

SHEET INDEX

SHEET TITLE	SHEET NUMBER
TITLE SHEET	1
COMPREHENSIVE PLAN VIEW	2
PUBLIC WATER AND SEWER PLAN	3-4
PUBLIC SANITARY SEWER PROFILES	5-7
PUBLIC SANITARY SEWER STRUCTURE SCHEDULES	8
PUBLIC WATER PROFILES	9-11
WATER FITTING CHARTS	12
STREAM CROSSING DETAILS	13-14

* - This includes 6" PVC used in Fire Hydrant Assemblies
 ** - This includes 4" PVC used in Fire Hydrant Assemblies

LOCATION OF SITE
ROGERS AVENUE
 TAX MAP 17, GRID 5, 6, 11 & 12
 HOWARD COUNTY, MARYLAND
ZONING: R-ED AND R-20, 2ND ELECTION DISTRICT
CONTRACT NO. 14-4967-D

GENERAL NOTES

- 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 JANUARY, 2009 BY AERO-METRIC.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLAN COORDINATE SYSTEM. HORIZONTAL AND VERTICAL CONTROL DATUM ARE BASED ON HOWARD COUNTY MONUMENT NOS. 17FA AND 17F7 WHICH WERE USED FOR THIS PROJECT.
- HOWARD COUNTY MONUMENT NO. 17FA ELEV. = 478.72
HOWARD COUNTY MONUMENT NO. 17F7 ELEV. = 469.40
- 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 THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWING, 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 IN 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) 410-685-0123
 BUREAU OF UTILITIES 410-313-4900
 COLONIAL PIPELINE COMPANY 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.
- THE 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 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.
- HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, IN A LETTER DATED JANUARY 21, 2015, APPROVED A WAIVER REQUEST OF THE REQUIREMENTS OF SECTION 4.3.B.3.B AND 4.5.E FOR LOTS 61 (NEW 28) THROUGH 66 (NEW 298), LOTS 71 (NEW 273) THROUGH 74 (NEW 276), 97 (NEW 299), AND 101 (NEW 303) (NO BASEMENT GRAVITY SERVICE). AS A RESULT OF TOPOGRAPHY CAUSING DEPTHS OF SEWER IN EXCESS OF 20 FEET, BASEMENT SEWER SERVICE CANNOT BE PROVIDED TO THESE PROPOSED LOTS. FOR THESE LOTS, GRAVITY SEWER SERVICE TO BE PROVIDED TO FIRST FLOOR ONLY. BASEMENT SERVICE TO BE PROVIDED BY PRIVATE ON-SITE PUMP. THE APPROVAL AND INSPECTION OF ON-SITE PUMPING UNITS INCLUDES THE DEPARTMENT OF INSPECTION, LICENSES AND PERMITS (DILP).
- HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS, IN A LETTER DATED JANUARY 21, 2015, APPROVED A WAIVER REQUEST OF THE REQUIREMENTS OF SECTION 3.3.B.5 (DEPTH OF COVER OVER WATER MAINS). THE WAIVER REQUEST TO ALLOW AN INCREASED DEPTH OF COVER OVER THE WATER MAIN CROSSING IN THE FOREST CONSERVATION EASEMENT, BETWEEN STATION 13+23 AND STATION 14+00 OF WATERLINE 'E' TO TEN (10) FEET IS APPROVED WITH THE FOLLOWING LIMITATIONS:
 - DR-14, C-900 PVC PIPE, WITH RESTRAINED JOINTS, SHALL BE USED BETWEEN STATION 13+06 AND STATION 14+20.
 - THE MAXIMUM COVER WITHIN THE LIMITS DESCRIBED ABOVE SHALL NOT EXCEED TEN (10) FEET.

QUANTITIES TABLE

ITEMS	QUANTITIES ESTIMATED	QUANTITIES	AS-BUILT TYPE	MANUFACTURER / SUPPLIER
1/16" BEND	3 EA.	4	Water	Tyler Union Foundry
1/32" BEND	16 EA.	21	Water	Tyler Union Foundry
1 1/2 WHC	65 EA.	65	Water	AY McDonald
1 1/2 COPPER WATERLINE	2390 L.F.	1970	Water	AY McDonald
8" DR 18 C900 PVC WATER	1789 L.F.	1721	Water	North American Pipe
6" DR 18 C900 PVC WATER	650 L.F.	712	Water	North American Pipe - **
4" DR 18 C900 PVC WATER	276 L.F.	354	Water	North American Pipe - **
8" VALVE	10 EA.	10	Water	Mueller Company
6" VALVE	8 EA.	8	Water	Mueller Company
4" VALVE	2 EA.	2	Water	Mueller Company
FIRE HYDRANTS	6 EA.	5	Water	Mueller Company
8"x8" TEE	4 EA.	5	Water	Multi Fittings
8"x6" TEE	6 EA.	6	Water	Tyler Union Foundry
8"x6" REDUCER	2 EA.	2	Water	Tyler Union Foundry
8"x4" REDUCER	2 EA.	2	Water	Tyler Union Foundry
4" SHC	65 EA.	53	Sewer	Multi Fittings
4" SCH 40 PVC SHC	2410 L.F.	1606.5	Sewer	North American Pipe
8" SCH 35 PVC SAN. LINE	2144 L.F.	1702.5	Sewer	North American Pipe
8" DIP CLASS 52 SAN. LINE	1533 L.F.	1533	Sewer	McWane Ductile
SANITARY MANHOLE	19 EA.	17	Sewer	Contractors Present Corp
SAN DROP MANHOLE	5 EA.	5	Sewer	Contractors Present Corp
BLOW-OFF VALVE	4 EA.	4	Water	Eclipse/Kupferzell Foundry
NAME OF UTILITY CONTRACTOR				

ITEMS	QUANTITIES ESTIMATED	QUANTITIES	AS-BUILT TYPE	MANUFACTURER / SUPPLIER
8" CLASS 54 DIP	0 LF	103	Water	McWane Ductile
4" DIP CLASS 52 SAN. LINE	0 LF	535.5	Sewer	McWane Ductile
6" DIP WATER	0 LF	65	Water	McWane Ductile
6" SLEEVE, C900 to DIP	0 EA.	1	Water	Multi Fittings
4" x 3" REDUCER	0 EA.	1	Water	Tyler Union Foundry
6" CAP	0 EA.	3	Water	Tyler Union Foundry
6" x 4" REDUCER	0 EA.	1	Water	Tyler Union Foundry
20 DEGREE BEND	0 EA.	1	Water	Tyler Union Foundry

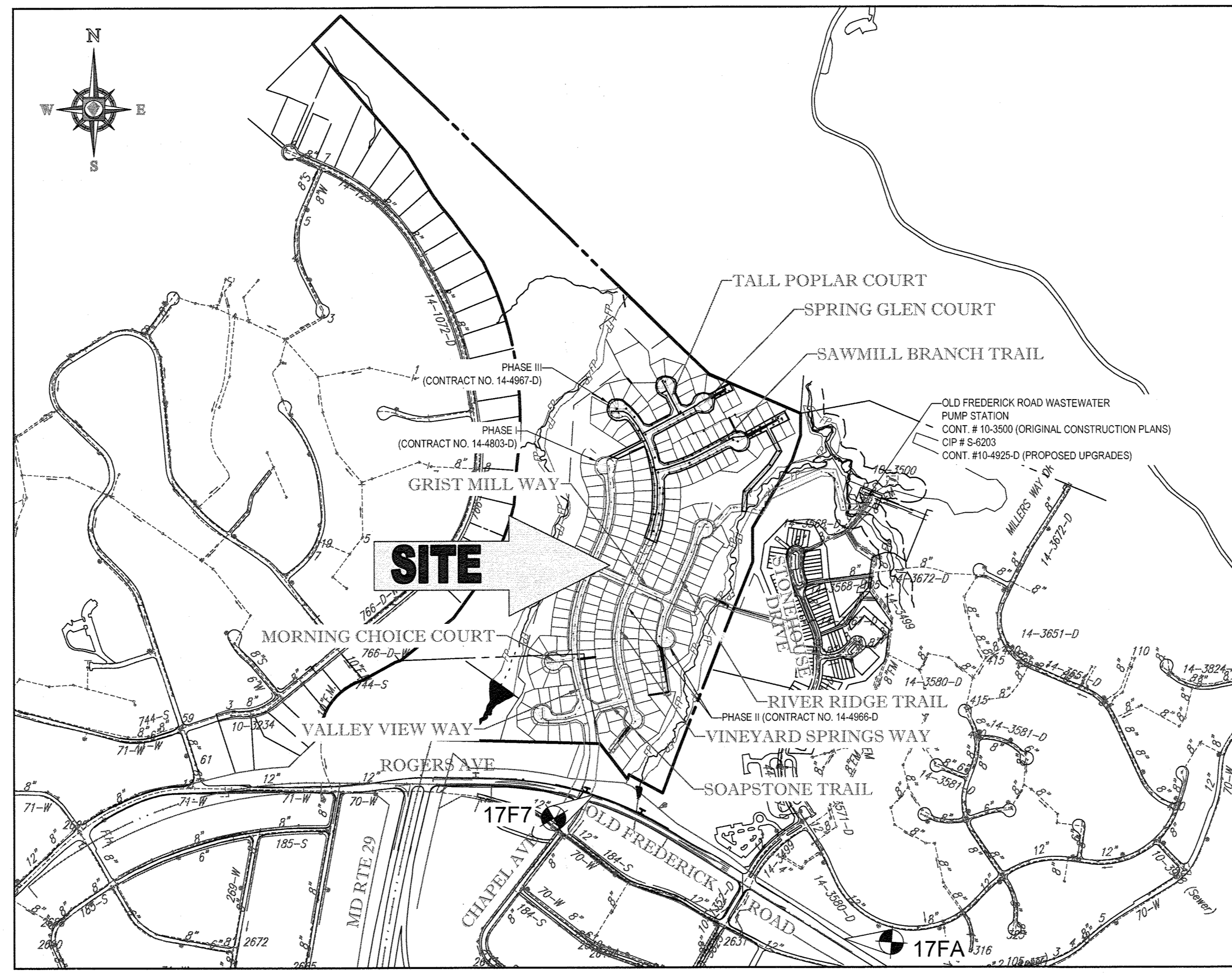
BENCHMARK

GEODETIC SURVEY CONTROL - 17FA
 ELEV. 476.721'
 N 594 948 426
 E 1,354 626 770

GEODETIC SURVEY CONTROL - 17F7
 ELEV. 469.399
 N 595 929 888
 E 1,363 088 330

SEWER NOTES

- ALL SEWER MAINS SHALL BE SDR 35 OR SCH. 40 PVC 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 COVERS, STANDARD DETAIL GS-82, WHERE WATERTIGHT 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.



VICINITY MAP
 SCALE: 1"=800'

REFERENCE DRAWINGS
 SP-13-008
 WP-13-048
 F-14-124
 CONT. 14-4903-D (PHASE I W&S)
 CONT. 14-4968-D (PHASE II W&S)

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

John R. Rowe 5/16/16
 HOWARD SCD DATE

OWNER
 ESTATES AT PATAPSCO PARK, LLC
 24012 FREDERICK ROAD
 CLARKSBURG, MD 20861
 CONTACT: MR. DAN SNYDER
 PHONE: (301) 674-8509

DEVELOPER
 ESTATES AT PATAPSCO PARK, LLC
 24012 FREDERICK ROAD
 CLARKSBURG, MD 20861
 CONTACT: MR. DAN SNYDER
 PHONE: (301) 674-8509

PROFESSIONAL CERTIFICATION
 I, BRANDON R. ROWE, 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. 40898, EXPIRATION DATE: 7/31/2017

BOHLER ENGINEERING
 901 DULANEY VALLEY ROAD, SUITE 801
 TOWSON, MARYLAND 21204
 Phone: (410) 821-7900
 Fax: (410) 821-7987
 www.BohlerEngineering.com

B.R. ROWE
 PROFESSIONAL ENGINEER
 LICENSE NO. 40898
 EXPIRATION DATE: 7/31/2017

DES. J.A.	DRN. R.L.B.	CHK. B.R.R.	DATE: 4/13/16	REV.	DATE	DESCRIPTION	BY

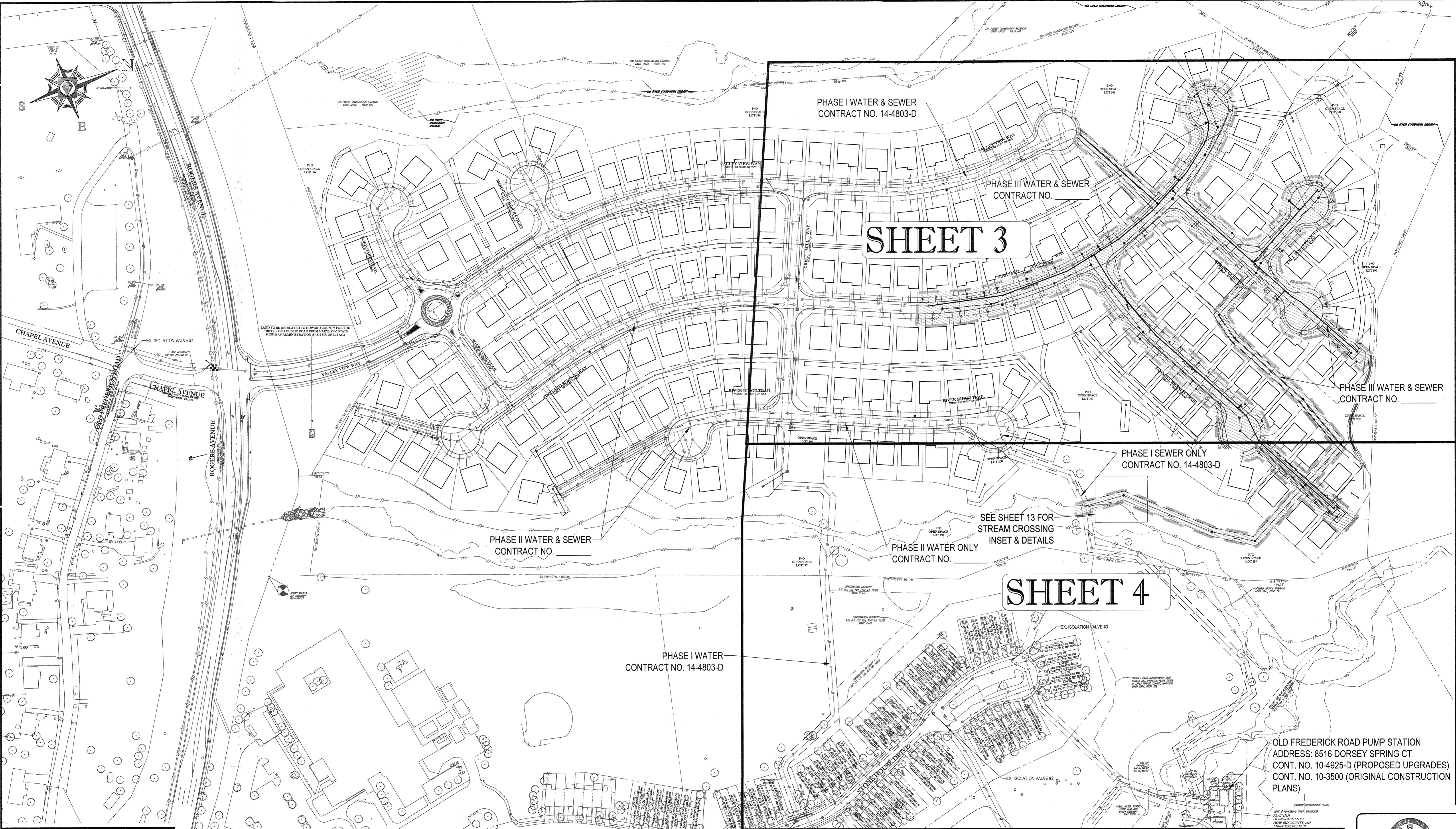
PHASE III
 TITLE SHEET

PARCEL NO. N/A

600' SCALE MAP NO. 17 BLOCK NO. 5

ESTATES AT PATAPSCO PARK
 ROGERS AVENUE
 BUILDABLE LOTS 253 - 317 (W&S)
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CONTRACT NO.: 14-4967-D

THE FOLLOWING STATES REQUIRE NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE OF MARYLAND, THE DISTRICT OF COLUMBIA, AND DELAWARE: CALL 1-800-245-4848 (PA 1-800-242-1776) (DC 1-800-257-7777) (VA 1-800-552-7001) (MD 1-800-257-7777) (DE 1-800-282-8555)



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

John R. Kohn 5/6/16
 5/6/16

OWNER
 ESTATES AT PATAPSCO PARK, LLC
 24012 FREDERICK ROAD
 CLARKSBURG, MD 20861
 CONTACT: MR. DAN SNYDER
 PHONE: (301) 674-8509

DEVELOPER
 ESTATES AT PATAPSCO PARK, LLC
 24012 FREDERICK ROAD
 CLARKSBURG, MD 20861
 CONTACT: MR. DAN SNYDER
 PHONE: (301) 674-8509

PROFESSIONAL CERTIFICATION
 I, BRANDON R. ROWE, 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. 42808, EXPIRATION DATE: 7/31/17

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND AS SHOWN ON F-14-124.

TEST PIT NOTE
 CONTRACTOR TO TEST PIT FOR EXACT LOCATION OF EXISTING UTILITY AND SUBMIT ANY DISCREPANCIES TO BOHLER ENGINEERING IN WRITING.

OLD FREDERICK ROAD PUMP STATION
 ADDRESS: 8516 DORSEY SPRING CT.
 CONT. NO. 10-4925-D (PROPOSED UPGRADES)
 CONT. NO. 10-3500 (ORIGINAL CONSTRUCTION PLANS)

SCALE
 1" = 100'

SHEET
 2 OF 14

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

John C. Gann 5/2/16
 5/2/16
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

Dan Snyder 5-12-16
 5-12-16
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

BOHLER ENGINEERING
 901 DULANEY VALLEY ROAD, SUITE 801
 TOWSON, MARYLAND 21284
 Phone: (410) 821-7900
 Fax: (410) 821-7987
 www.BohlerEngineering.com

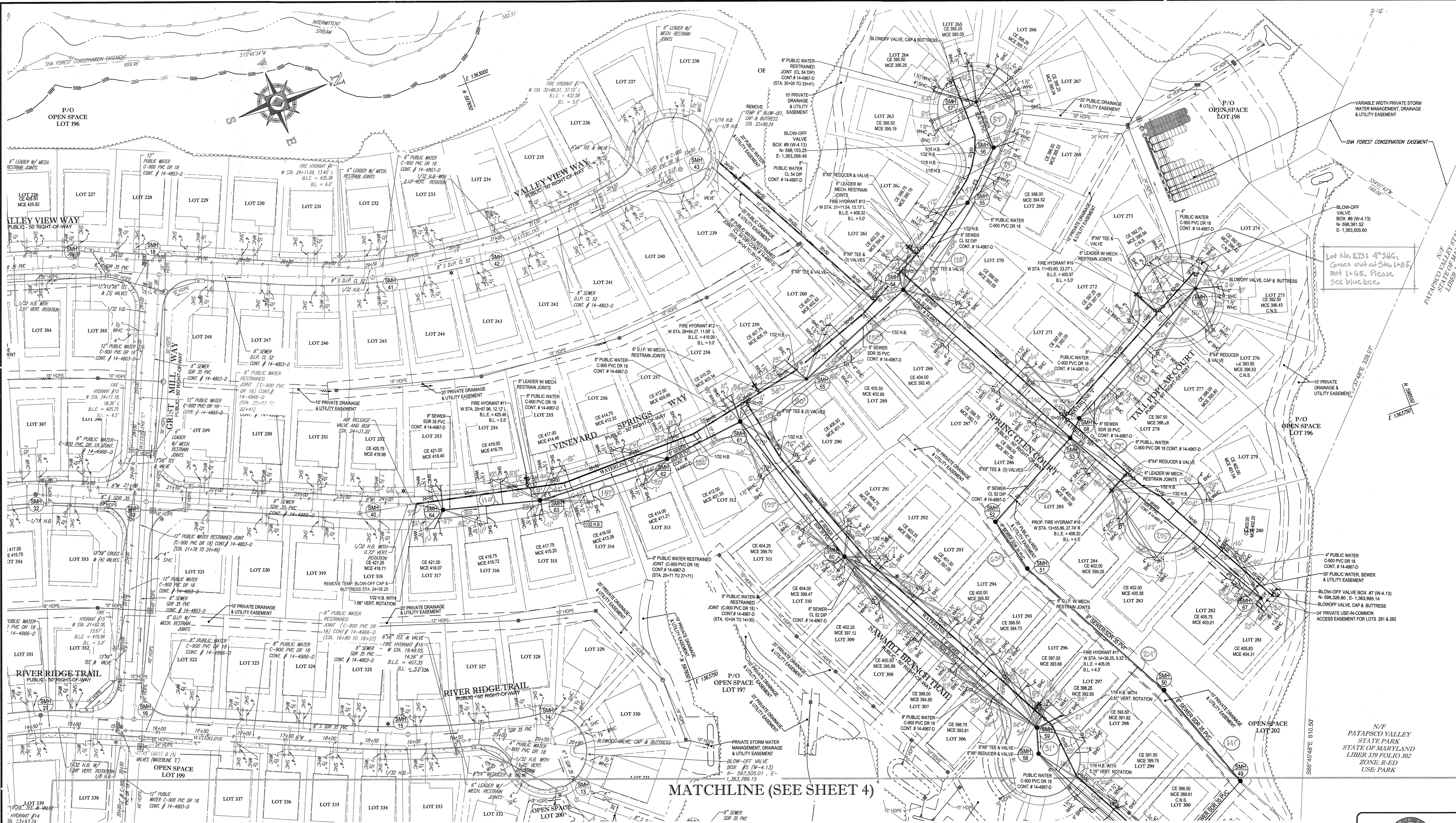
BRANDON R. ROWE
 PROFESSIONAL ENGINEER
 5/6/16

DES. JA					
DRN. R.L.B.					
CHK. B.R.R.					
DATE: 4/13/16	REV.	DATE	DESCRIPTION	BY	

PHASE III COMPREHENSIVE PLAN VIEW

PARCEL NO. N/A
 600' SCALE MAP NO. 17 BLOCK NO. 5

ESTATES AT PATAPSCO PARK
 ROGERS AVENUE
 BUILDABLE LOTS 253 - 317 (W&S)
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CONTRACT NO.: 14-4967-D



Lot No. 273 is 4" SHC, Comes out at Sta. 1085. Not 1065. Please see blue line.

MATCHLINE (SEE SHEET 4)

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

John P. Blitt 5/16/16
HOWARD SCD

SEDMIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND AS SHOWN ON F-14-124.

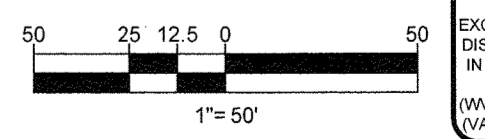
OWNER
ESTATES AT PATAPSCO PARK, LLC
24012 FREDERICK ROAD
CLARKSBURG, MD 20891
CONTACT: MR. DAN SNYDER
PHONE: (301) 674-8509

DEVELOPER
ESTATES AT PATAPSCO PARK, LLC
24012 FREDERICK ROAD
CLARKSBURG, MD 20891
CONTACT: MR. DAN SNYDER
PHONE: (301) 674-8509

PROFESSIONAL CERTIFICATION
I, BRANDON R. ROWE, 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. 48988. EXPIRATION DATE: 7/31/21

Brandon R. Rowe
PROFESSIONAL ENGINEER

TEST PIT NOTE
CONTRACTOR TO TEST PIT FOR EXACT LOCATION OF EXISTING UTILITY AND SUBMIT ANY DISCREPANCIES TO BOHLER ENGINEERING IN WRITING.



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

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE

BOHLER ENGINEERING
901 DULANEY VALLEY ROAD, SUITE 801
TOWSON, MARYLAND 21204
Phone: (410) 821-7800
Fax: (410) 821-7887
www.BohlerEngineering.com

B.R. ROWE
PROFESSIONAL ENGINEER
STATE OF MARYLAND
LICENSE NO. 48988

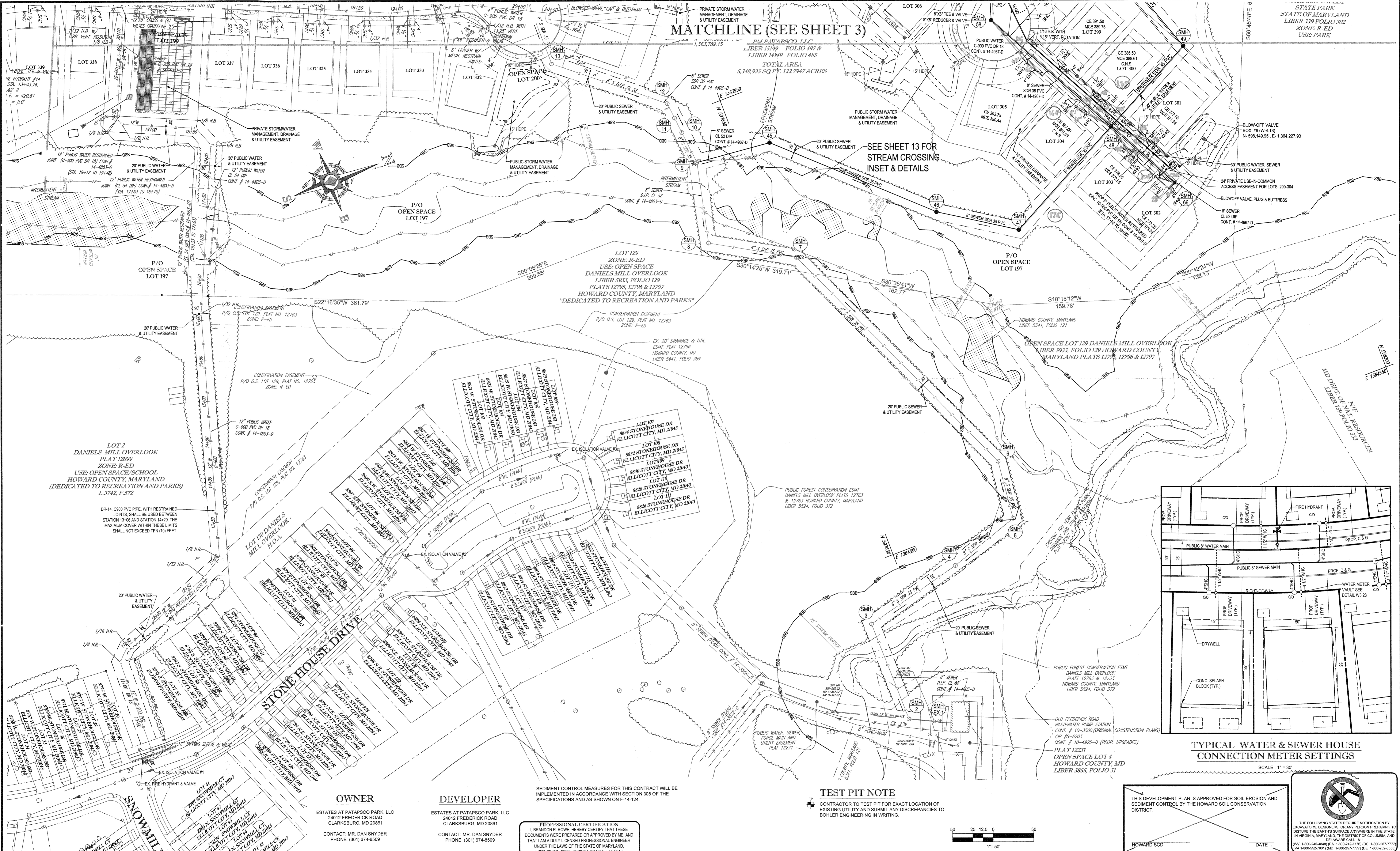
DES. JA	DRN. R.L.B.	CHK. B.R.R.	DATE 4/13/16	REV.	DATE	DESCRIPTION

PHASE III
PUBLIC WATER AND SEWER PLAN

PARCEL NO.	N/A
600' SCALE MAP NO.	17
BLOCK NO.	5

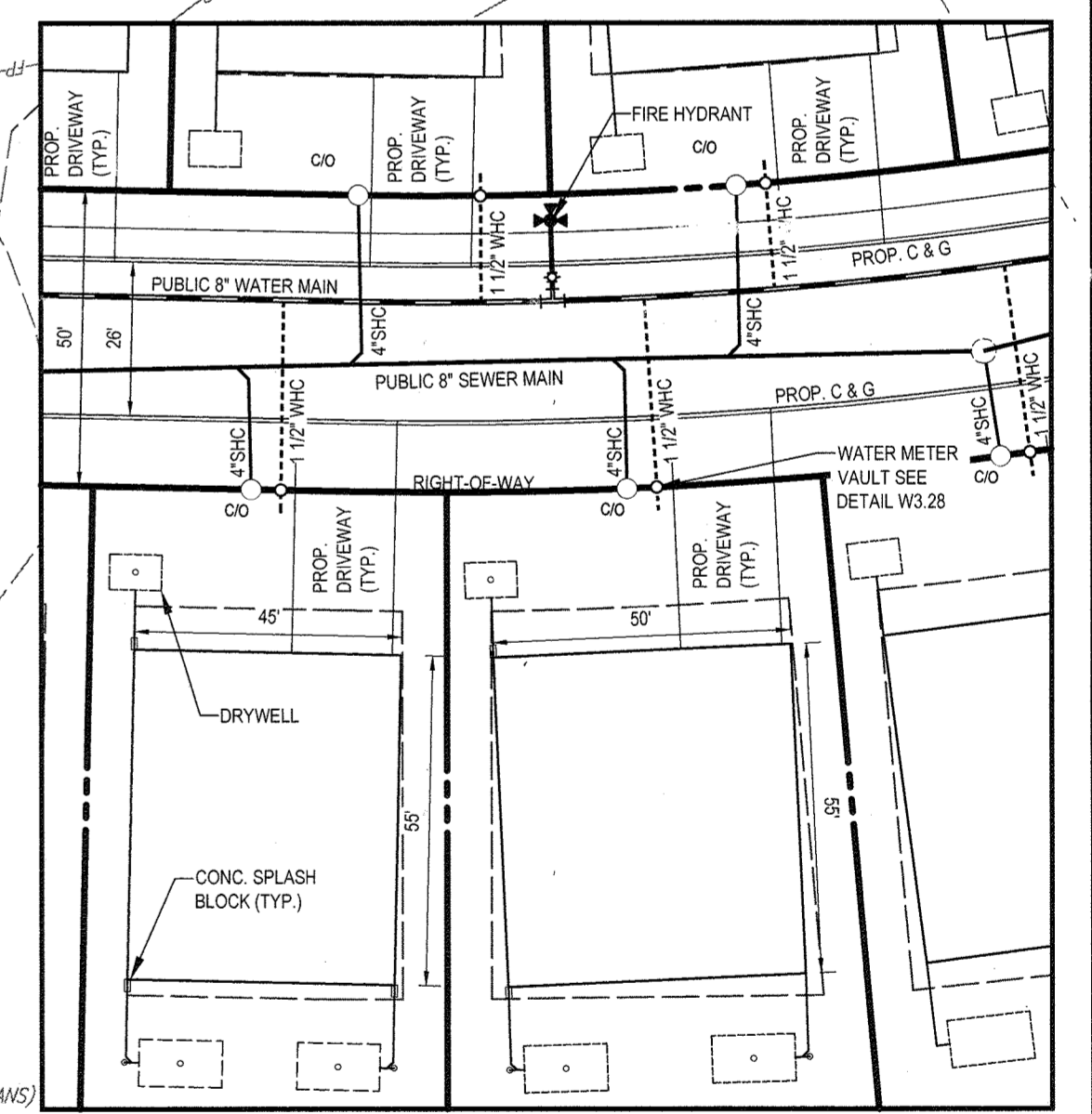
ESTATES AT PATAPSCO PARK
ROGERS AVENUE
BUILDABLE LOTS 253 - 317 (W&S)
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO.: 14-4967-D

SCALE 1" = 50'
SHEET 3 OF 14



MATCHLINE (SEE SHEET 3)

SEE SHEET 13 FOR STREAM CROSSING INSET & DETAILS



TYPICAL WATER & SEWER HOUSE CONNECTION METER SETTINGS

SCALE: 1" = 30'

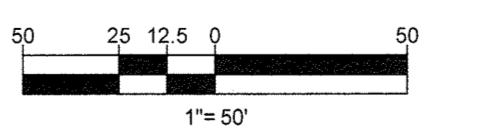
OWNER
ESTATES AT PATAPSCO PARK, LLC
24012 FREDERICK ROAD
CLARKSBURG, MD 20881
CONTACT: MR. DAN SNYDER
PHONE: (301) 674-8509

DEVELOPER
ESTATES AT PATAPSCO PARK, LLC
24012 FREDERICK ROAD
CLARKSBURG, MD 20881
CONTACT: MR. DAN SNYDER
PHONE: (301) 674-8509

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND AS SHOWN ON F-14-124.

TEST PIT NOTE
CONTRACTOR TO TEST PIT FOR EXACT LOCATION OF EXISTING UTILITY AND SUBMIT ANY DISCREPANCIES TO BOHLER ENGINEERING IN WRITING.

PROFESSIONAL CERTIFICATION
I, BRANDON R. ROWE, 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. 40908, EXPIRATION DATE: 7/30/21



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

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE

BOHLER ENGINEERING
901 DULANEY VALLEY ROAD, SUITE 801
TOWSON, MARYLAND 21204
Phone: (410) 821-7900
Fax: (410) 821-7887
www.BohlerEngineering.com

B. ROWE ENGINEERING
PROFESSIONAL ENGINEER
DATE 4/13/16

DES. J.A.					
DRN. R.L.B.					
CHK. B.R.R.					
DATE 4/13/16	REV.	DATE	DESCRIPTION	BY	

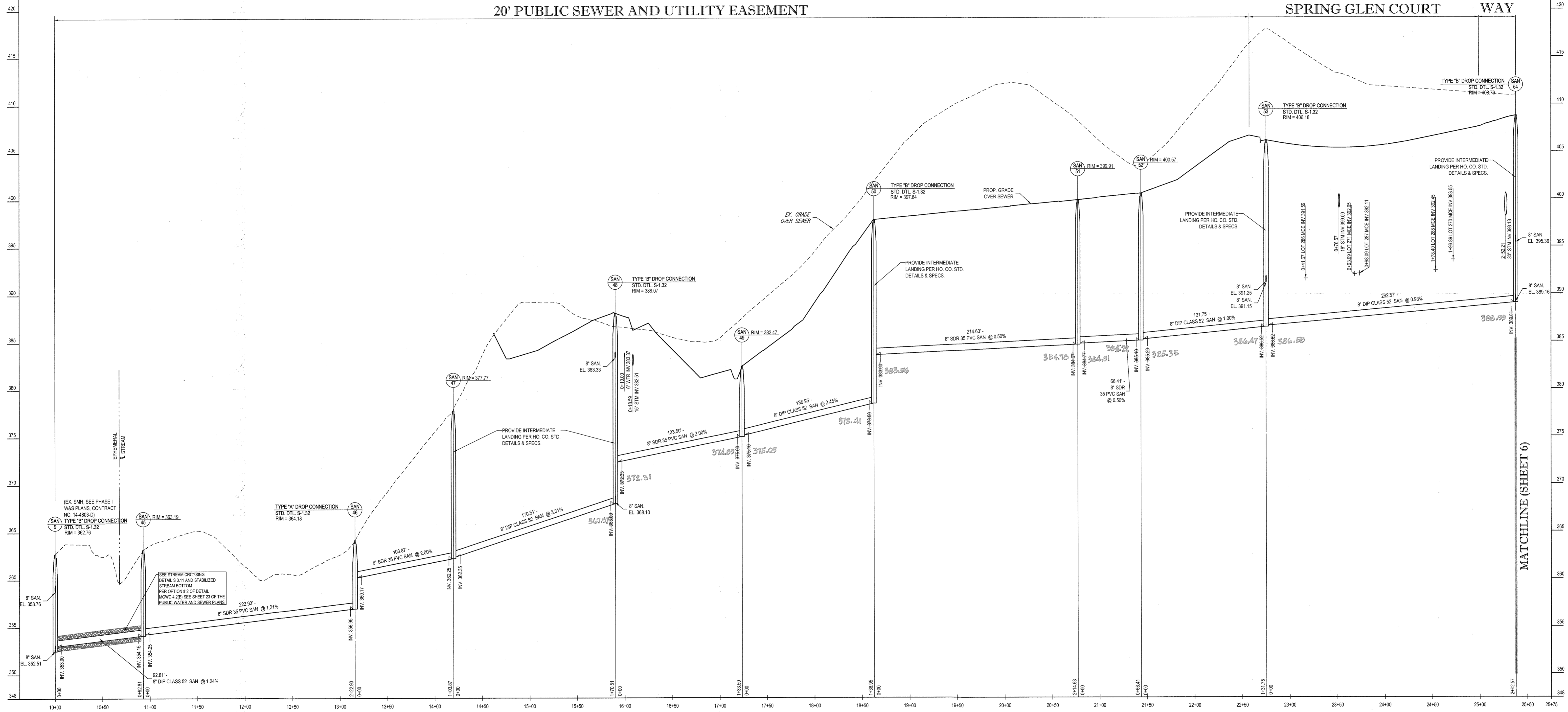
PHASE III PUBLIC WATER AND SEWER PLAN
PARCEL NO. N/A
600' SCALE MAP NO. 17
BLOCK NO. 6

ESTATES AT PATAPSCO PARK
ROGERS AVENUE
BUILDABLE LOTS 253 - 317 (W&S)
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO.: 14-4967-D
SCALE 1" = 50'
SHEET 4 OF 14

20' PUBLIC SEWER AND UTILITY EASEMENT

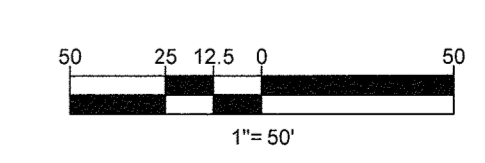
SPRING GLEN COURT

VINEYARD SPRINGS WAY



PROPOSED SANITARY PROFILE (SAN-9 TO SAN-54)
SCALE: 1" = 50' HORIZONTAL
1" = 5' VERTICAL

PROFESSIONAL CERTIFICATION
I, BRANDON R. ROWE, 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. 40906, EXPIRATION DATE: 7/3/2017



THE FOLLOWING STATES REQUIRE NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE OF VIRGINIA, MARYLAND, THE DISTRICT OF COLUMBIA, AND DELAWARE CALL 811 (WWW.811.COM)
VA 1-800-245-4848 (PA 1-800-242-1778) (DC 1-800-257-7777) (DE 1-800-852-7001) (MD 1-800-287-7777) (DE 1-800-282-8500)

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

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE

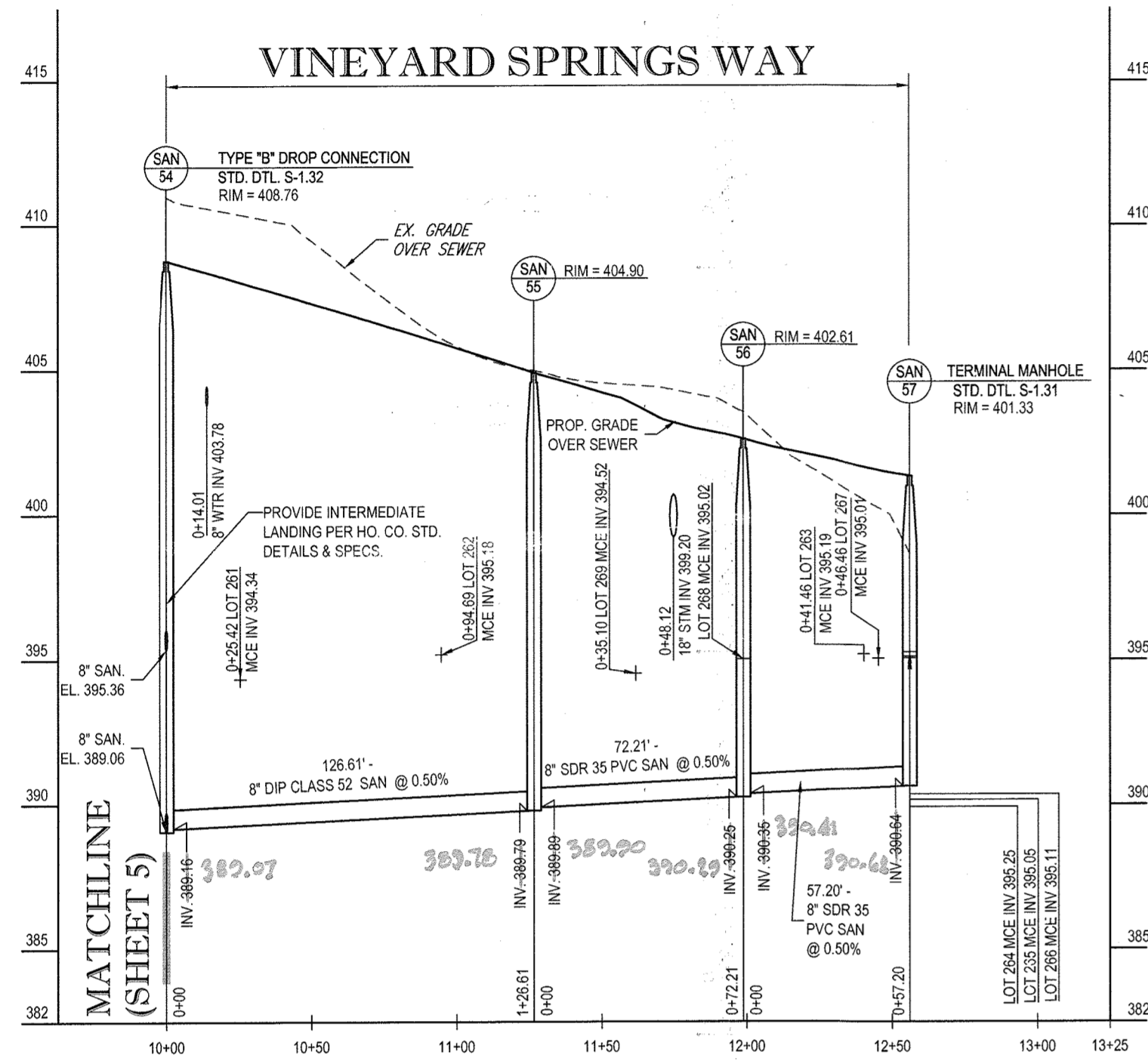
BOHLER ENGINEERING
901 DULANEY VALLEY ROAD, SUITE 801 TOWSON, MARYLAND 21204
Phone: (410) 821-7500 Fax: (410) 821-7587
www.BohlerEngineering.com



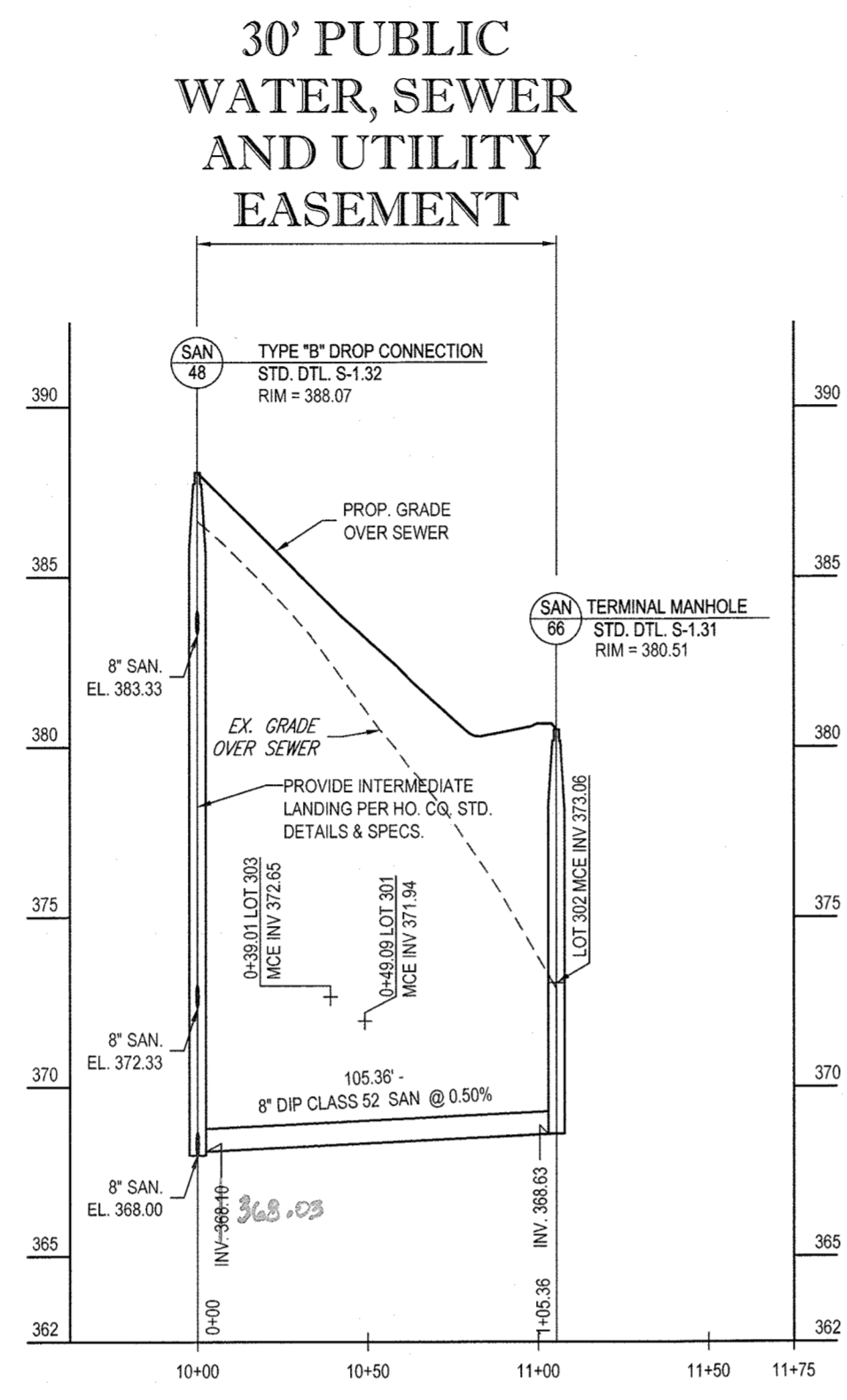
DES. J.A.				
DRN. R.L.B.				
CHK. B.R.R.				
DATE: 4/13/16	REV.	DATE	DESCRIPTION	BY

PHASE III PUBLIC SANITARY SEWER PROFILES
PARCEL NO. N/A
600' SCALE MAP NO. 17 BLOCK NO. 5

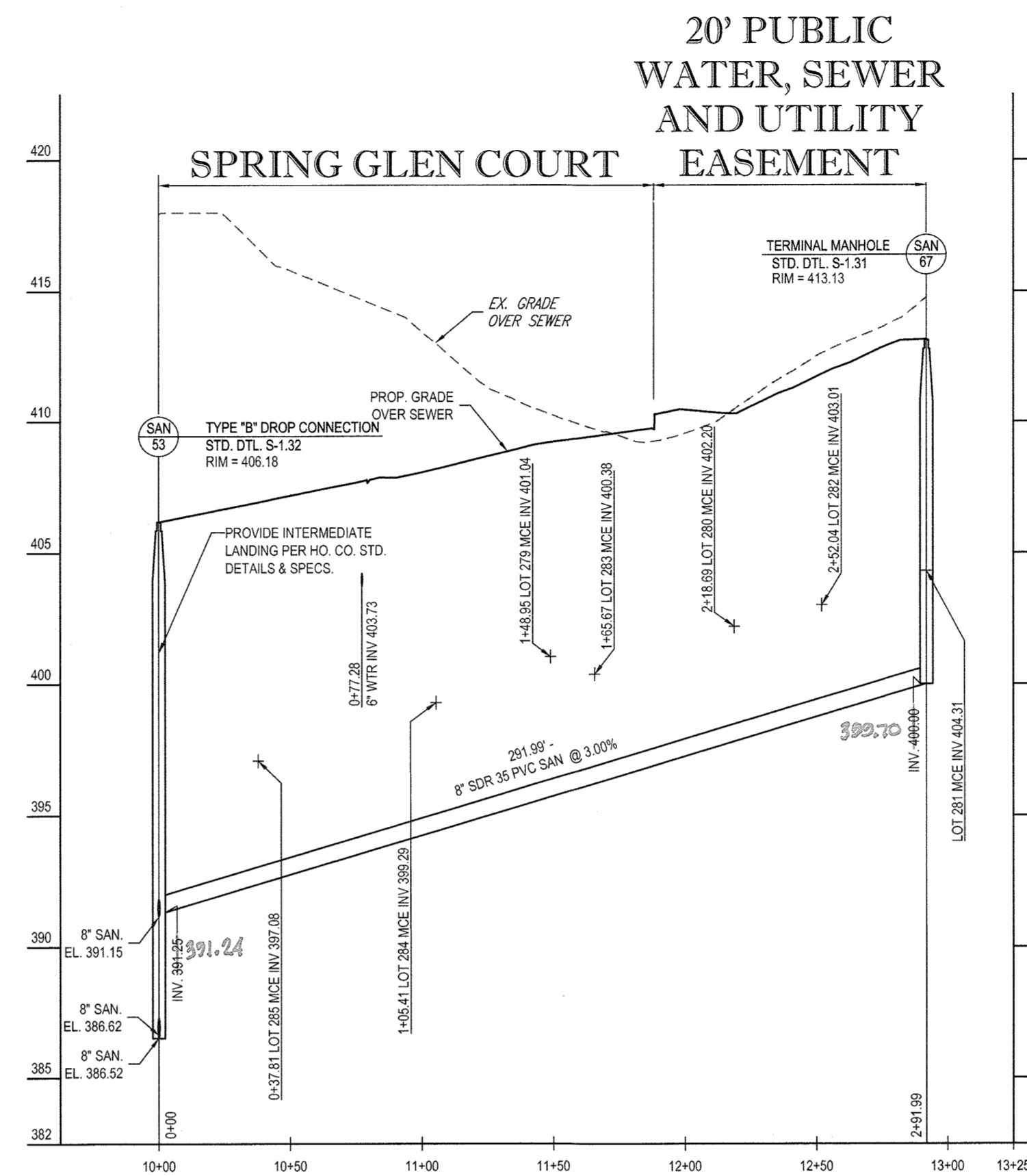
ESTATES AT PATAPSCO PARK
ROGERS AVENUE
BUILDABLE LOTS 253 - 317 (W&S)
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO.: 14-4967-D
SCALE AS SHOWN
SHEET 5 OF 14



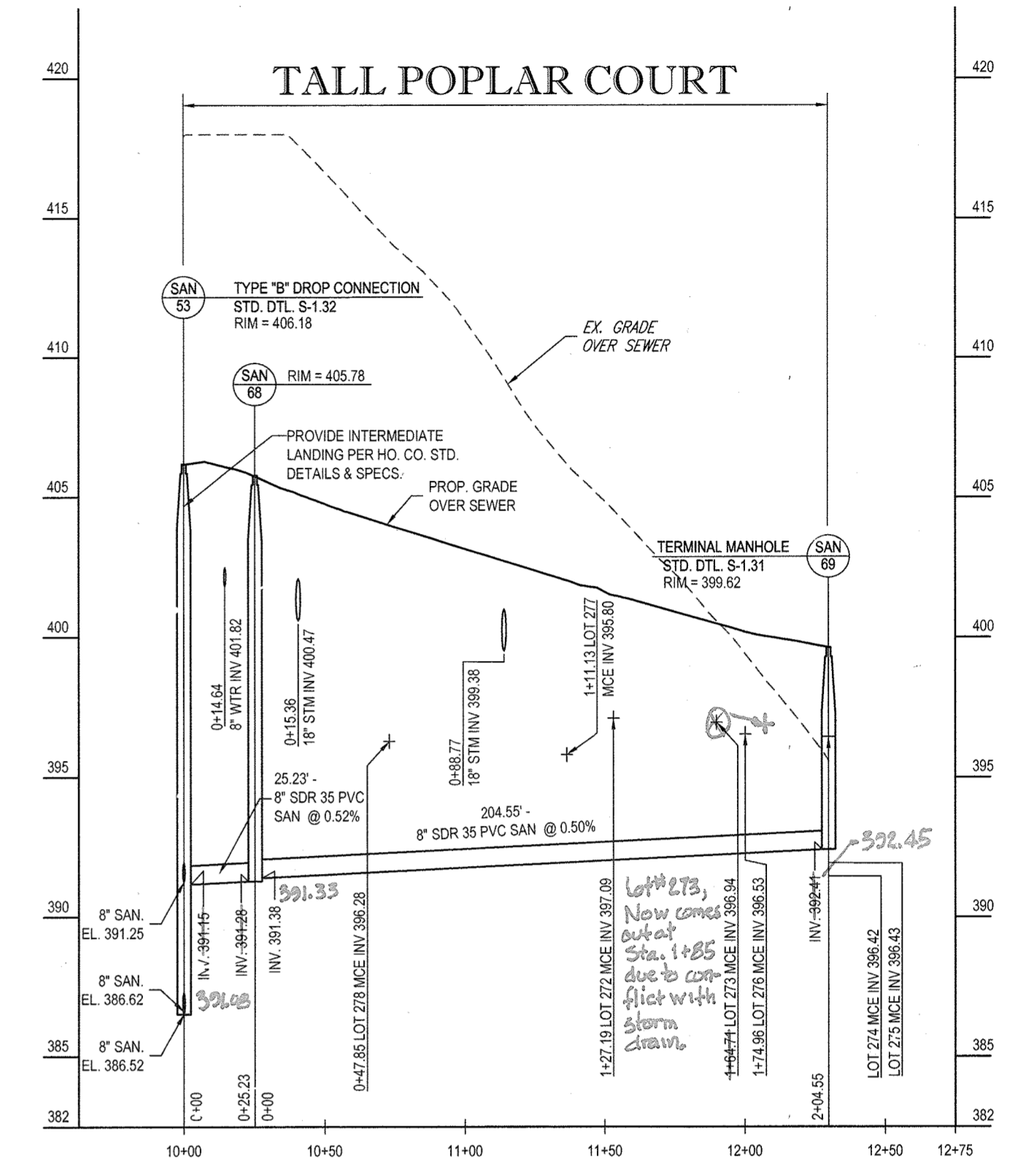
PROPOSED SANITARY PROFILE (SAN-54 TO SAN-57)
SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL



PROPOSED SANITARY PROFILE (SAN-48 TO SAN-66)
SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL

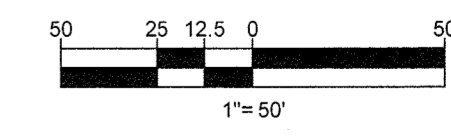


PROPOSED SANITARY PROFILE (SAN-53 TO SAN-67)
SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL



PROPOSED SANITARY PROFILE (SAN-53 TO SAN-69)
SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL

PROFESSIONAL CERTIFICATION
I, BRANDON R. ROWE, 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. 40886, EXPIRATION DATE: 7/3/2017



THE FOLLOWING STATES REQUIRE NOTIFICATION BY
EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO
DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE
IN VIRGINIA, MARYLAND, THE DISTRICT OF COLUMBIA, AND
DELAWARE CALL: 811
(WV 1-800-245-4848) (PA 1-800-243-1776) (DC 1-800-257-7777)
(VA 1-800-552-7041) (MD 1-800-291-7777) (DE 1-800-362-8555)

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND
John C. ...
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
John C. ...
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

BOHLER ENGINEERING
901 DULANEY VALLEY ROAD, SUITE 801
TOWSON, MARYLAND 21204
Phone: (410) 521-7900
Fax: (410) 521-7987
www.BohlerEngineering.com

BRANDON R. ROWE
PROFESSIONAL ENGINEER
LICENSE NO. 40886, EXPIRATION DATE: 7/3/2017

DES. J.A.					
DRN. R.L.B.					
CHK. B.R.R.					
DATE: 4/13/16	REV.	DATE	DESCRIPTION	BY	

PHASE III
PUBLIC SANITARY
SEWER PROFILES
PARCEL NO. N/A
600' SCALE MAP NO. 17 BLOCK NO. 5

ESTATES AT PATAPSCO PARK
ROGERS AVENUE
BUILDABLE LOTS 253 - 317 (W&S)
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO.: 14-4967-D

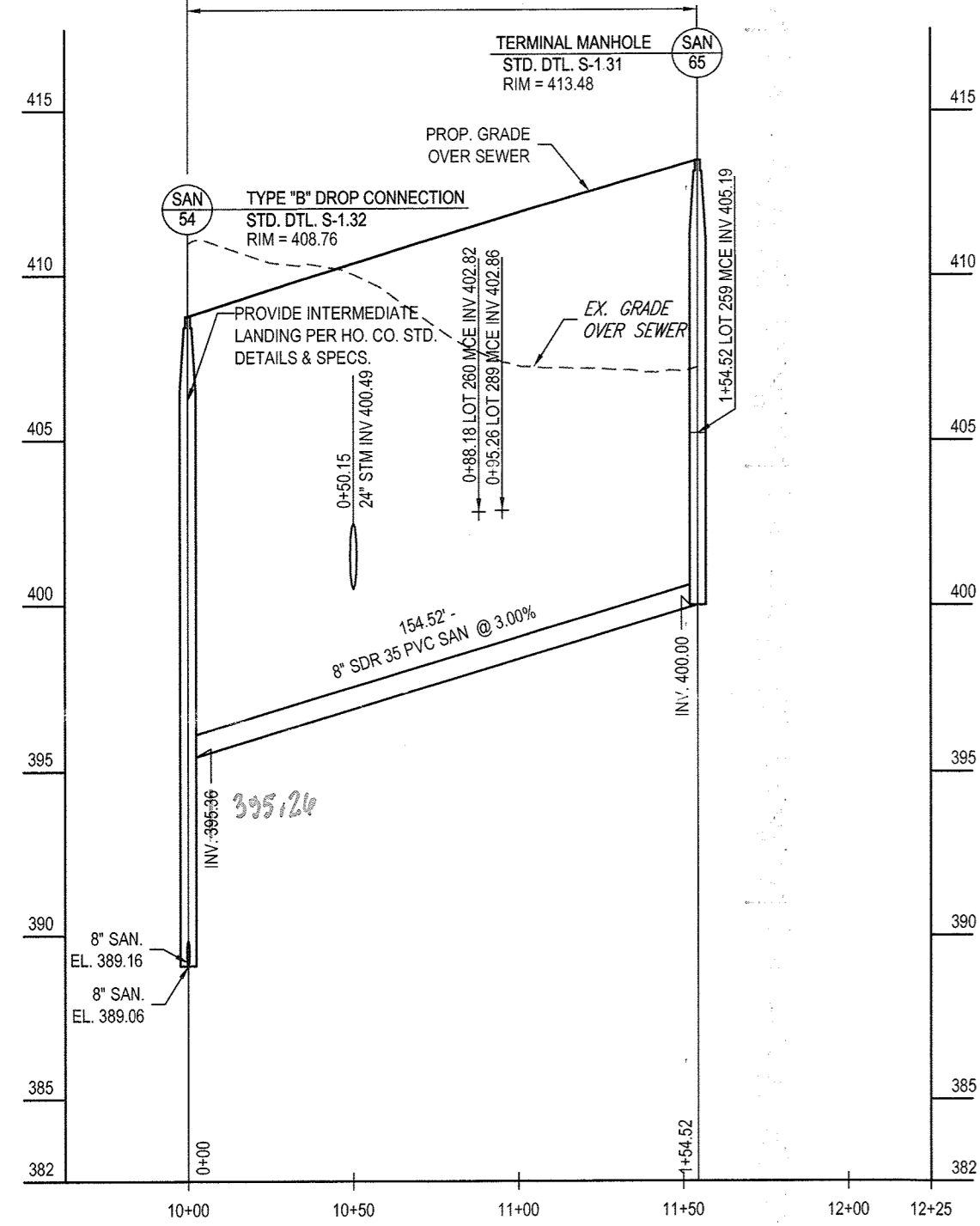
SCALE AS SHOWN
SHEET 6 OF 14

WATER, SEWER AND UTILITY EASEMENT

SAWMILL BRANCH TRAIL

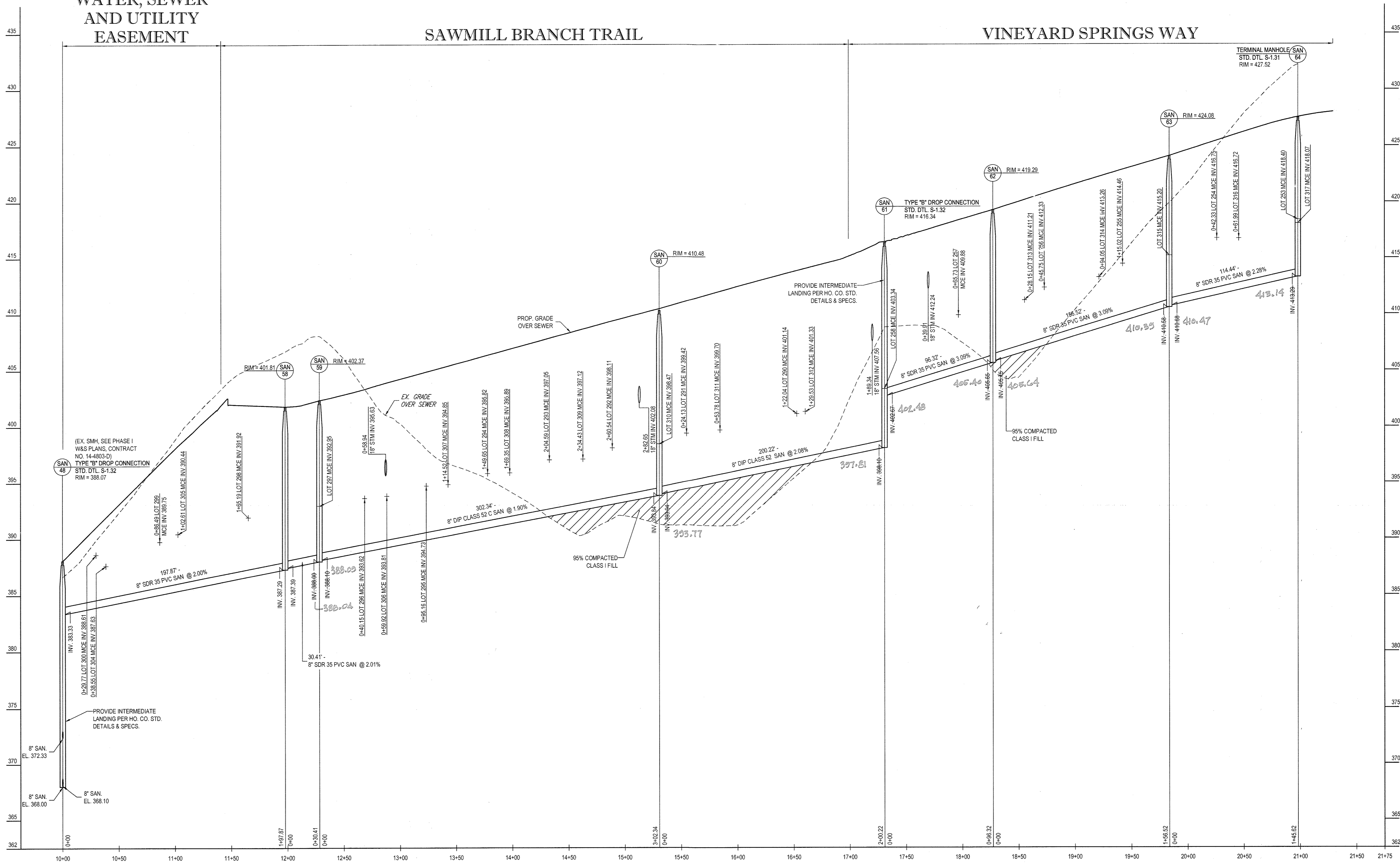
VINEYARD SPRINGS WAY

VINEYARD SPRINGS WAY



PROPOSED SANITARY PROFILE (SAN-54 TO SAN-65)

SCALE: 1"= 50' HORIZONTAL
1"= 5' VERTICAL



PROPOSED SANITARY PROFILE (SAN-48 TO SAN-64)

SCALE: 1"= 50' HORIZONTAL
1"= 5' VERTICAL

PROFESSIONAL CERTIFICATION
I, BRANDON R. ROWE, 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. 40808, EXPIRATION DATE: 7/3/2017

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Fax: (410) 821-7987
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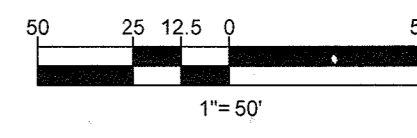


DES. J.A.				
DRN. R.L.B.				
CHK. B.R.R.				
DATE: 4/13/16				
REV.	DATE	DESCRIPTION	BY	

PHASE III
PUBLIC SANITARY
SEWER PROFILES

PARCEL NO. N/A
600' SCALE MAP NO. 17 BLOCK NO. 5

ESTATES AT PATAPSCO PARK
ROGERS AVENUE
BUILDABLE LOTS 253 - 317 (W&S)
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO.: 14-4967-D

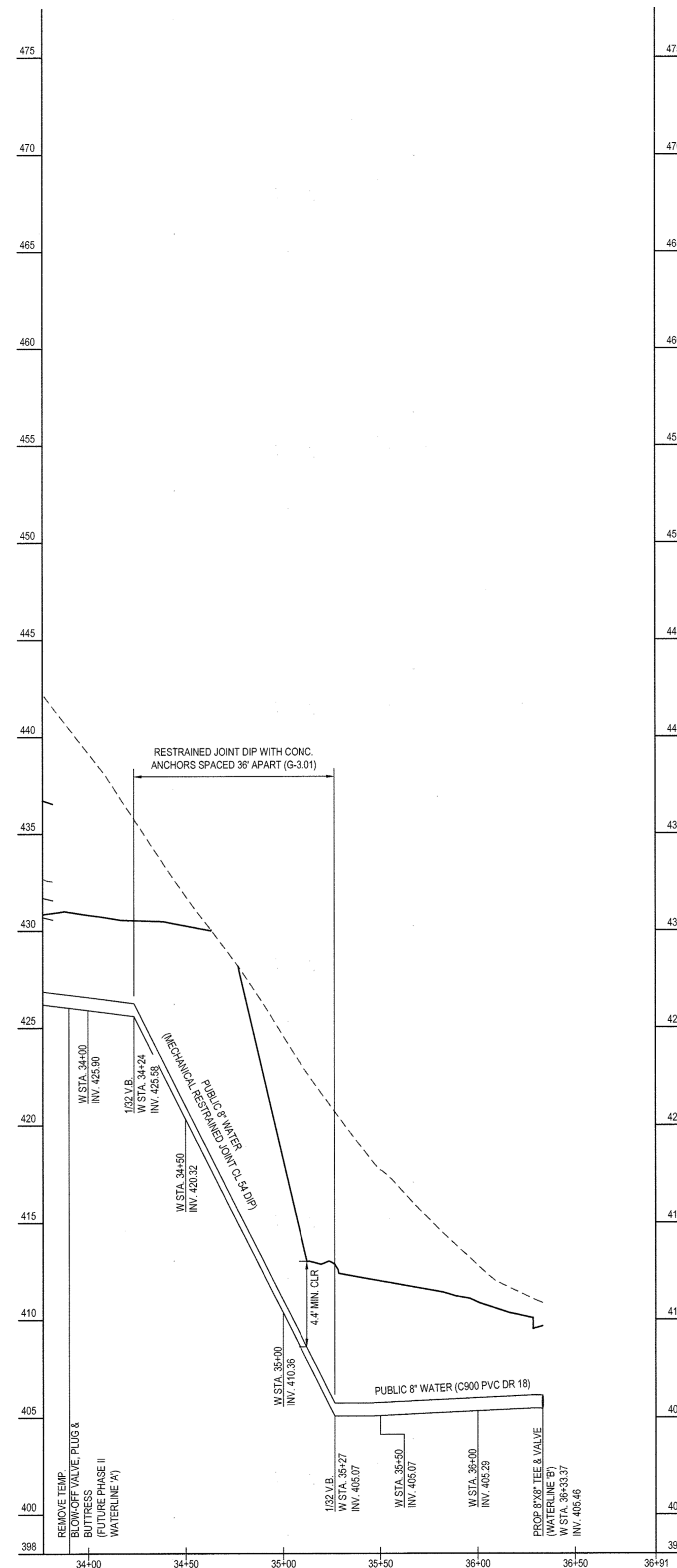


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DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND
CHIEF, BUREAU OF UTILITIES
DATE

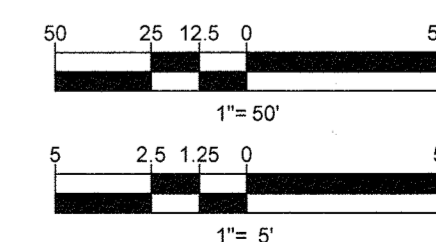
DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE 5-12-16

SCALE AS SHOWN
SHEET 7 OF 14



PROPOSED WATERLINE 'A' PROFILE (33+90.24 TO 36+33.37)

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



PROFESSIONAL CERTIFICATION
I, BRANDON R. ROWE, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DAILY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 40808 EXPIRATION DATE: 7/31/2017



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND
John C. Carr 5/2/16
 CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
John E. Carr 5.12.16
 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

BOHLER ENGINEERING
 901 DULANEY VALLEY ROAD, SUITE 801
 TOWSON, MARYLAND 21284
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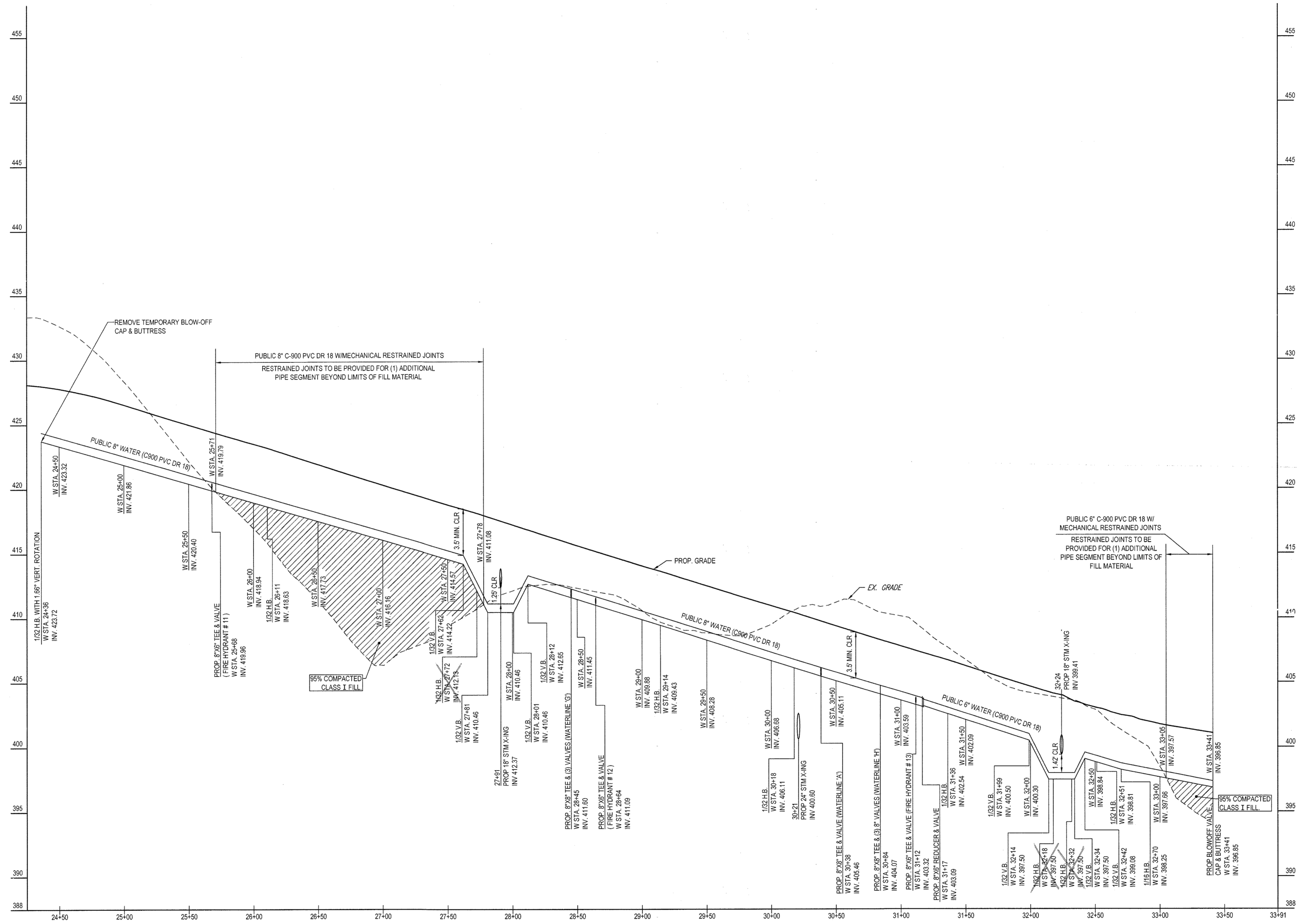


DES. J.A.				
DRN. R.L.B.				
CHK. B.R.R.				
DATE: 4/13/16	REV.	DATE	DESCRIPTION	BY

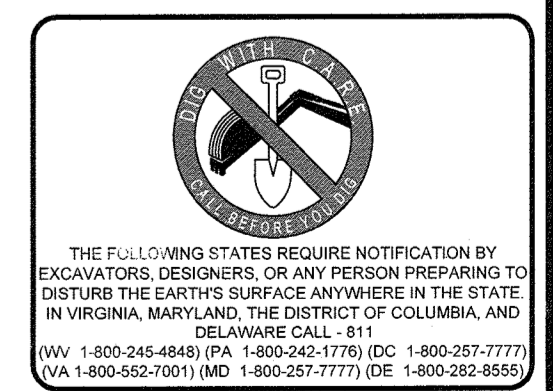
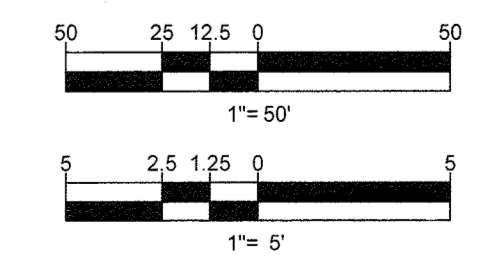
PHASE III
PUBLIC WATER PROFILES
 PARCEL NO. N/A
 600' SCALE MAP NO. 17 BLOCK NO. 5

ESTATES AT PATAPSCO PARK
 ROGERS AVENUE
 BUILDABLE LOTS 253 - 317 (W&S)
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CONTRACT NO.: 14-4967-D

SCALE AS SHOWN
 SHEET 9 OF 14



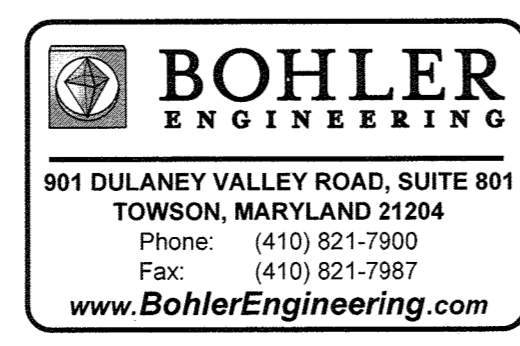
PROPOSED WATERLINE 'B' PROFILE (24+25 - 33+41.17)
 SCALE: 1" = 50' HORIZONTAL
 1" = 5' VERTICAL



PROFESSIONAL CERTIFICATION
 I, BRANDON R. ROWE, 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. 40886, EXPIRATION DATE: 7/29/21

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND
 Chief, Bureau of Utilities
 Date: 5/2/16

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
 Chief, Development Engineering Division
 Date: 5.12.16

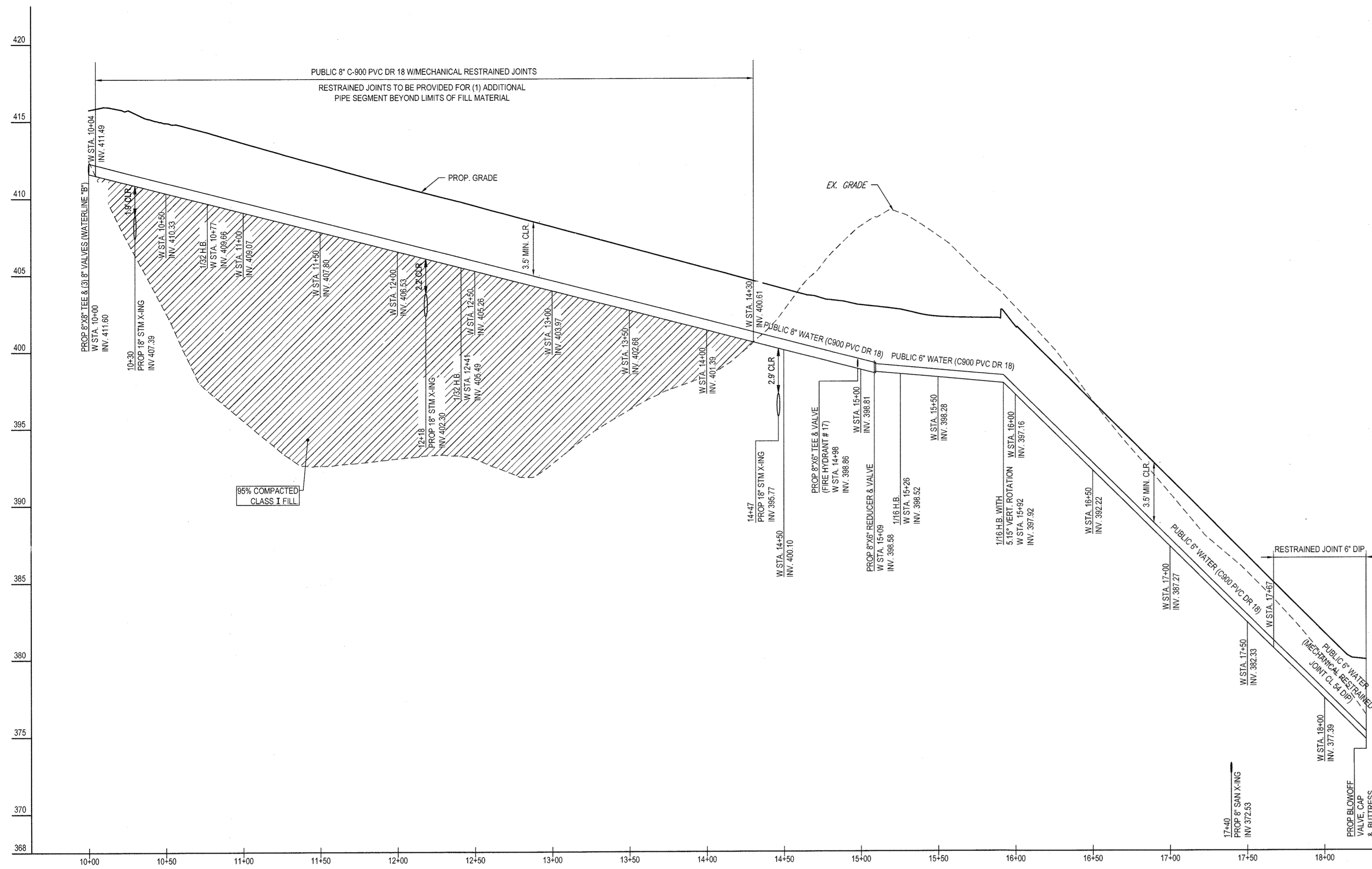


DES. JA	
DRN. R.L.B.	
CHK. B.R.R.	
DATE: 4/13/16	
REV.	DATE DESCRIPTION

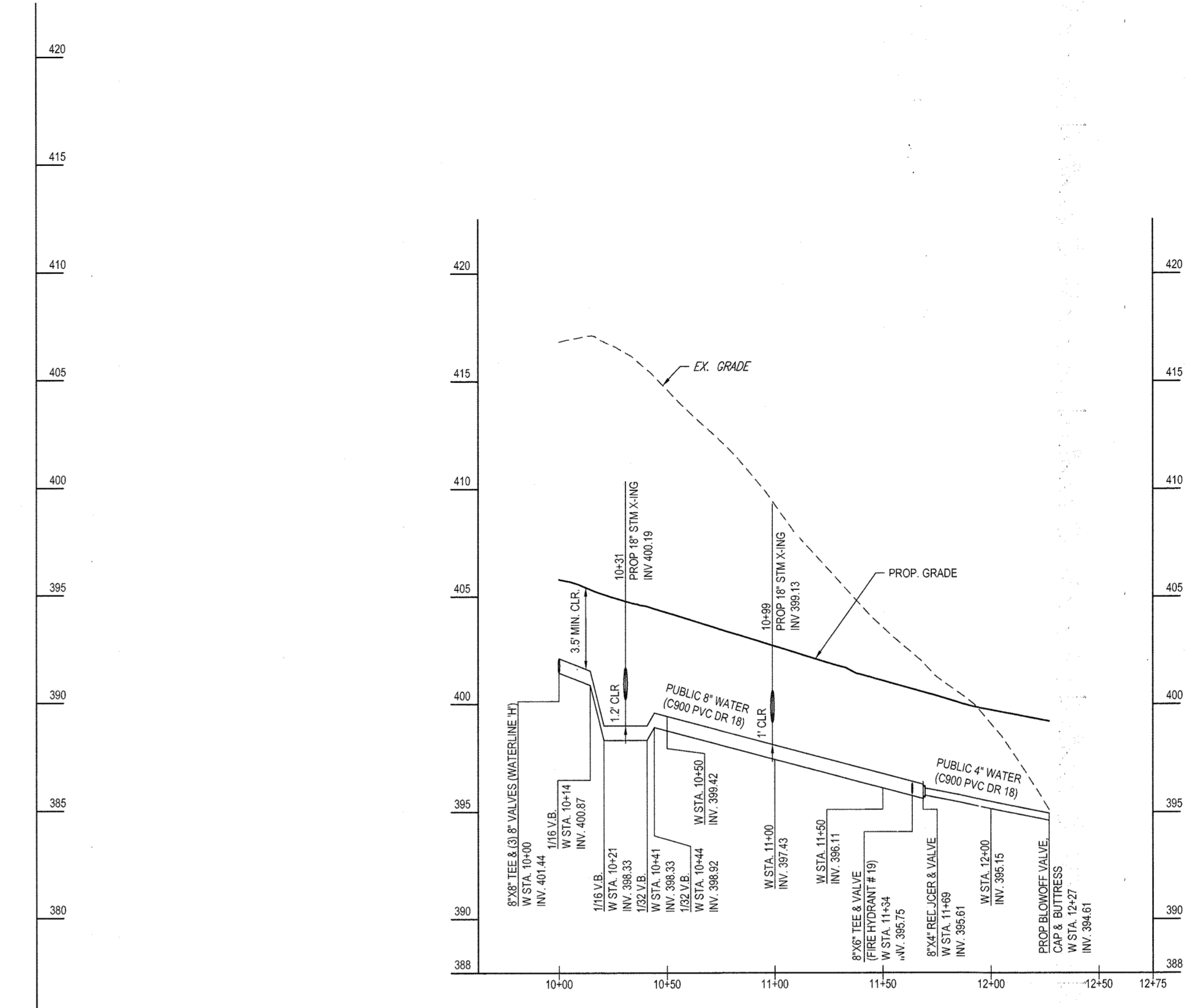
PHASE III PUBLIC WATER PROFILES	
PARCEL NO.	N/A
600' SCALE MAP NO.	17
BLOCK NO.	5

ESTATES AT PATAPSCO PARK
 ROGERS AVENUE
 BUILDABLE LOTS 253 - 317 (W&S)
 6TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CONTRACT NO.: 14-4967-D

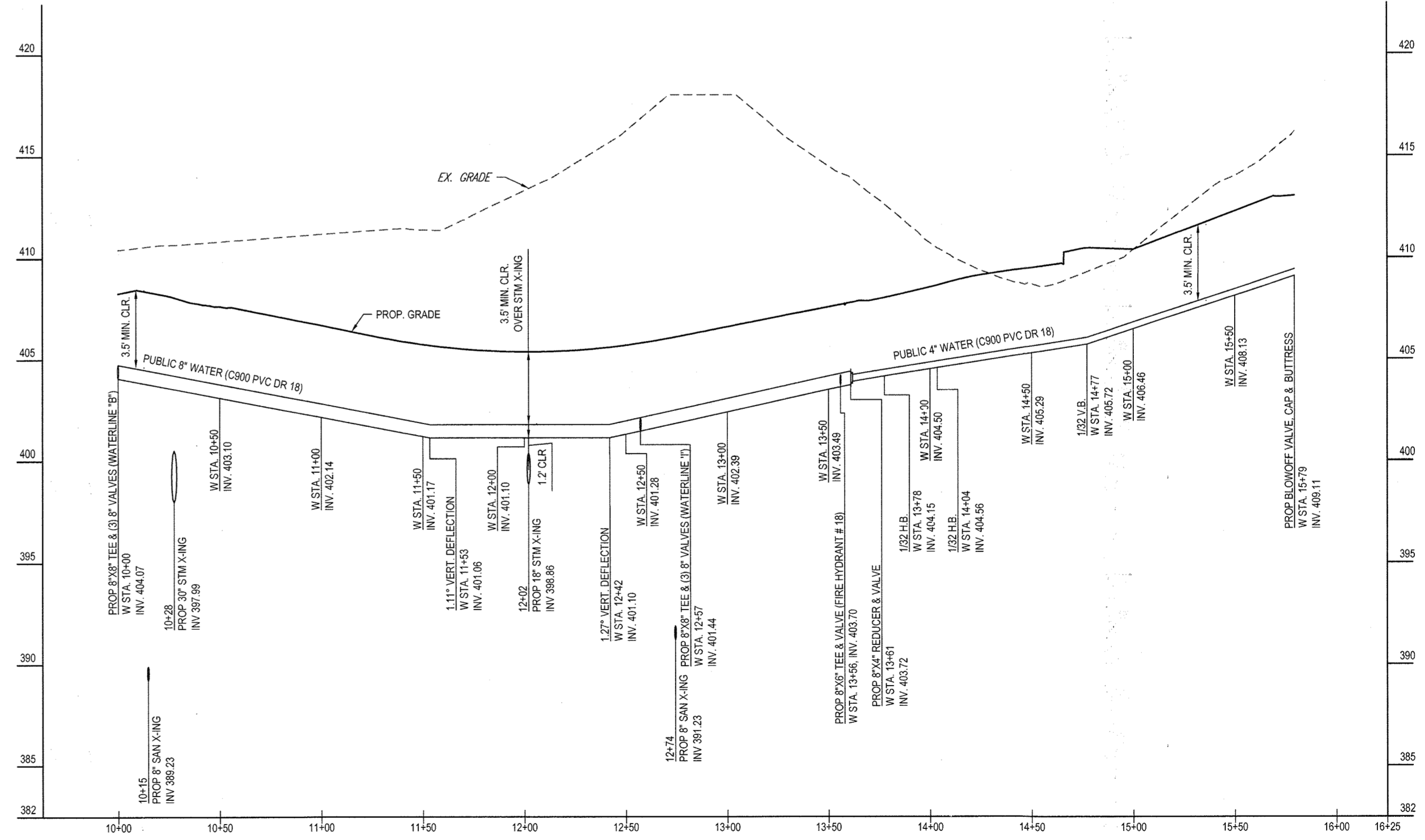
SCALE AS SHOWN
 SHEET 10 OF 14



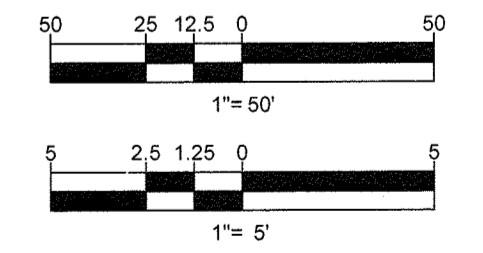
PROPOSED WATERLINE 'G' PROFILE
SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL



PROPOSED WATERLINE 'T' PROFILE
SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL



PROPOSED WATERLINE 'H' PROFILE
SCALE: 1"=50' HORIZONTAL
1"=5' VERTICAL



PROFESSIONAL CERTIFICATION
I, BRANDON R. ROWE, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 40808, EXPIRATION DATE: 7/31/2017

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

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE

BOHLER ENGINEERING
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Fax: (410) 821-7987
www.BohlerEngineering.com

BRANDON R. ROWE
PROFESSIONAL ENGINEER
LICENSE NO. 40808
EXPIRATION DATE: 7/31/2017

DES. J.A.					
DRN. R.L.B.					
CHK. B.R.R.					
DATE: 4/13/16	REV.	DATE	DESCRIPTION	BY	

PHASE III PUBLIC WATER PROFILES
PARCEL NO. N/A
600' SCALE MAP NO. 17 BLOCK NO. 5

ESTATES AT PATAPSCO PARK
ROGERS AVENUE
BUILDABLE LOTS 253 - 317 (W&S)
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO.: 14-4967-D
SCALE AS SHOWN SHEET 11 OF 14

WATER FITTING CHART		
WATER MAIN CL. STATION	FITTING	NORTHING EASTING
33+00.24 WATERLINE - 'A'	TEMP. BLOW-OFF CAP & BUTTRESS	N 558007.38 E 1363410.38
34+23.67 WATERLINE - 'A'	1/32 V.B.	N 557910.58 E 1363224.25
35+26.55 WATERLINE - 'A'	1/32 V.B.	N 557950.09 E 1363315.61
36+33.37 WATERLINE - 'A'	PROP 8"X8" TEE & VALVE (WATERLINE 'B')	N 558007.38 E 1363410.38

WATER FITTING CHART		
WATER MAIN CL. STATION	FITTING	NORTHING EASTING
24+26.24 WATERLINE - 'B'	1/32 H.B. WITH 0.72" VERT. ROTATION	N 557410.80 E 1363438.43
24+31.22 WATERLINE - 'B'	AIR RELEASE VALVE & BOX	N 557415.52 E 1363440.02
24+36.20 WATERLINE - 'B'	1/32 H.B. WITH 1.68" VERT. ROTATION	N 557420.24 E 1363441.60
25+47.96 WATERLINE - 'B'	8"X8" TEE & VALVE (FIRE HYDRANT #11)	N 557548.72 E 1363470.80
26+10.62 WATERLINE - 'B'	1/32 H.B.	N 557590.32 E 1363480.26
27+62.00 WATERLINE - 'B'	1/32 V.B.	N 557741.69 E 1363480.96
27+72.49 WATERLINE - 'B'	1/32 H.B.	N 557752.19 E 1363491.01
27+80.90 WATERLINE - 'B'	1/32 V.B.	N 557760.45 E 1363479.41
28+00.90 WATERLINE - 'B'	1/32 V.B.	N 557780.08 E 1363479.60
28+11.92 WATERLINE - 'B'	1/32 V.B.	N 557790.90 E 1363473.50
28+45.29 WATERLINE - 'B'	PROP 8"X8" TEE & (3) VALVES (WATERLINE 'G')	N 557823.65 E 1363467.14
28+64.27 WATERLINE - 'B'	8"X8" TEE & VALVE (FIRE HYDRANT #12)	N 557842.29 E 1363463.52
29+14.20 WATERLINE - 'B'	1/32 H.B.	N 557891.30 E 1363454.01
30+17.68 WATERLINE - 'B'	1/32 H.B.	N 557899.00 E 1363419.93
30+38.39 WATERLINE - 'B'	8"X8" TEE & VALVE (WATERLINE 'A')	N 558007.38 E 1363410.38
30+84.15 WATERLINE - 'B'	8"X8" TEE & (3) VALVES (WATERLINE 'H')	N 558047.97 E 1363389.26
31+11.54 WATERLINE - 'B'	8"X8" TEE & VALVE (FIRE HYDRANT #13)	N 558072.28 E 1363376.62
31+16.54 WATERLINE - 'B'	PROP 8"X8" REDUCER & VALVE	N 558076.72 E 1363374.31
31+36.18 WATERLINE - 'B'	1/32 H.B.	N 558094.14 E 1363365.25
31+98.96 WATERLINE - 'B'	1/32 V.B.	N 558143.88 E 1363326.95
32+14.08 WATERLINE - 'B'	1/32 V.B.	N 558155.86 E 1363317.72
32+17.71 WATERLINE - 'B'	1/32 H.B.	N 558158.74 E 1363315.51
32+31.88 WATERLINE - 'B'	1/32 H.B.	N 558168.28 E 1363305.03
32+34.08 WATERLINE - 'B'	1/32 V.B.	N 558169.45 E 1363303.17
32+42.05 WATERLINE - 'B'	1/32 V.B.	N 558173.70 E 1363296.42
32+51.27 WATERLINE - 'B'	1/32 H.B.	N 558178.61 E 1363288.63
32+70.14 WATERLINE - 'B'	1/16 H.B.	N 558185.71 E 1363271.14
33+41.13 WATERLINE - 'B'	BLOWOFF VALVE, CAP & BUTTRESS	N 558185.22 E 1363200.16


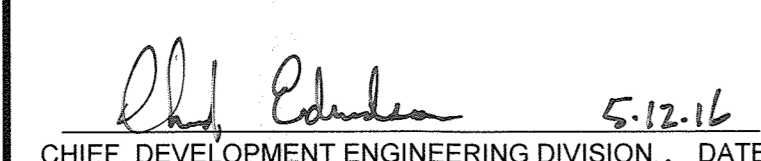
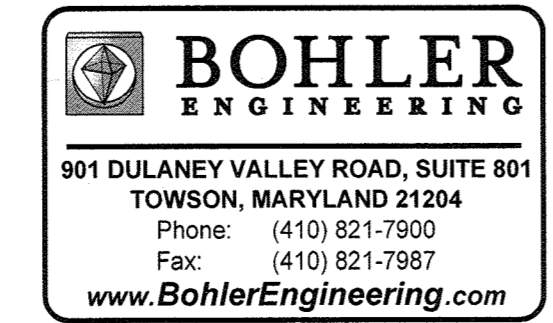

WATER FITTING CHART		
WATER MAIN CL. STATION	FITTING	NORTHING EASTING
10+00.00 WATERLINE - 'G'	8"X8" TEE & 8" VALVE (WATERLINE 'B')	N 557823.65 E 1363467.14
10+76.75 WATERLINE - 'G'	1/32 H.B.	N 557837.89 E 1363542.56
12+41.18 WATERLINE - 'G'	1/32 H.B.	N 557892.72 E 1363697.58
14+07.99 WATERLINE - 'G'	NULL STRUCTURE	N 558011.22 E 1363925.42
15+08.72 WATERLINE - 'G'	8"X8" REDUCER & VALVE	N 558016.17 E 1363934.94
15+25.69 WATERLINE - 'G'	1/16 H.B. WITH 0.81" VERT. ROTATION	N 558024.00 E 1363949.99
15+02.33 WATERLINE - 'G'	1/16 H.B. WITH 5.15" VERT. ROTATION	N 558029.78 E 1364016.38
18+36.98 WATERLINE - 'G'	BLOWOFF VALVE, PLUG & BUTTRESS	N 558138.05 E 1364224.54

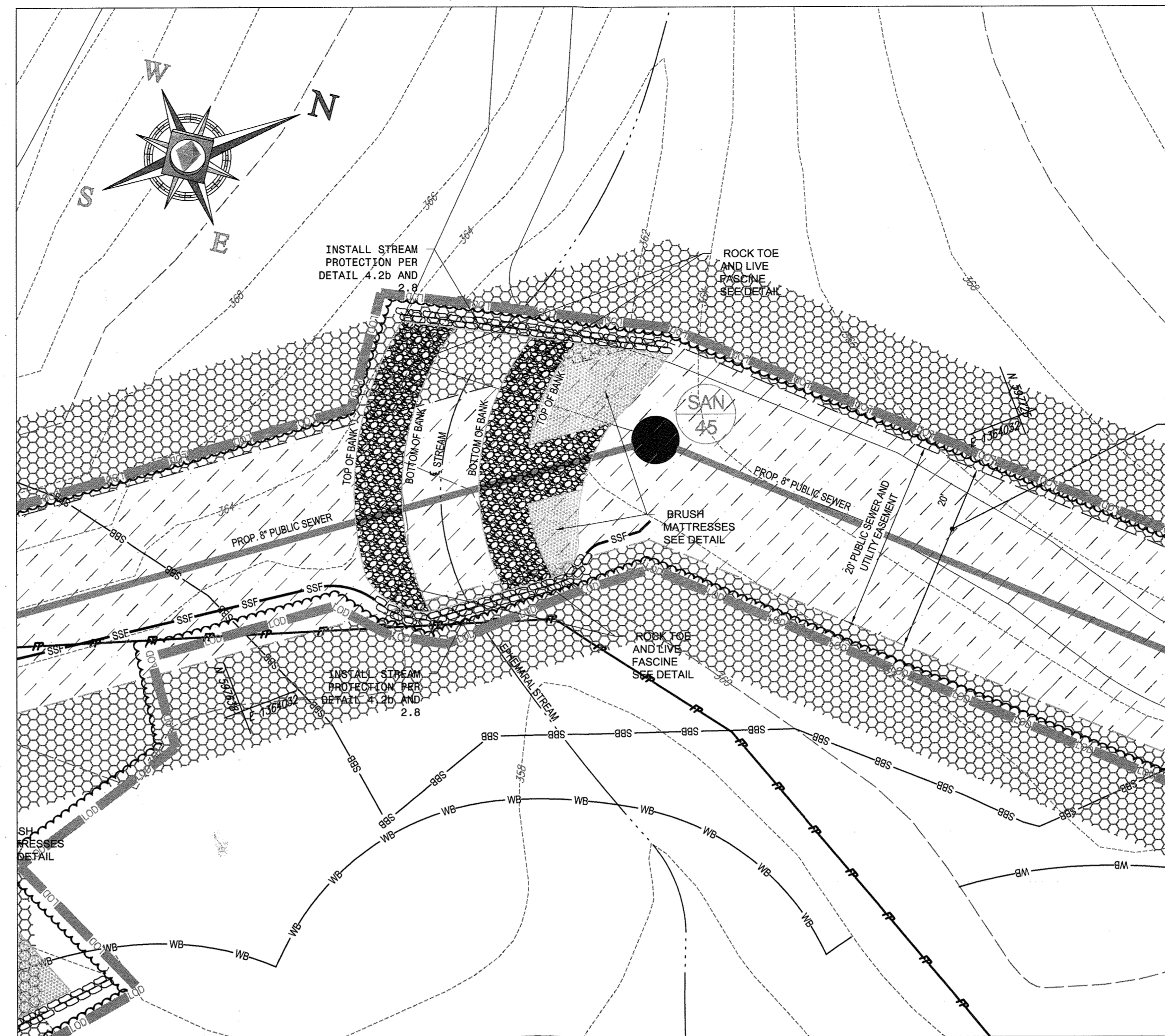
WATER FITTING CHART		
WATER MAIN CL. STATION	FITTING	NORTHING EASTING
10+00.00 WATERLINE - 'H'	8"X8" TEE & (3) VALVES (WATERLINE 'B')	N 558047.97 E 1363389.26
12+41.97 WATERLINE - 'H'	1/32 V.B.	N 558159.63 E 1363603.94
12+57.23 WATERLINE - 'H'	8"X8" TEE & (3) VALVES (WATERLINE 'Y')	N 558195.67 E 1363617.48
13+55.89 WATERLINE - 'H'	8"X8" TEE & VALVE (FIRE HYDRANT #18)	N 558212.19 E 1363705.00
13+00.91 WATERLINE - 'H'	PROP 8"X4" REDUCER	N 558214.50 E 1363709.45
13+77.53 WATERLINE - 'H'	1/32 H.B.	N 558222.17 E 1363724.20
14+03.54 WATERLINE - 'H'	1/32 H.B.	N 558238.32 E 1363744.60
14+77.19 WATERLINE - 'H'	1/32" V.B.	N 558272.31 E 1363809.93
15+73.43 WATERLINE - 'H'	BLOWOFF VALVE, CAP & BUTTRESS	N 558318.51 E 1363900.62

WATER FITTING CHART		
WATER MAIN CL. STATION	FITTING	NORTHING EASTING
10+00.00 WATERLINE - 'I'	8"X8" TEE & (3) VALVES (WATERLINE 'Y')	N 558166.67 E 1363917.48
10+14.43 WATERLINE - 'I'	1/16 V.B.	N 558179.47 E 1363910.82
10+20.75 WATERLINE - 'I'	1/16 V.B.	N 558185.07 E 1363907.91
10+40.75 WATERLINE - 'I'	1/32 H.B.	N 558202.82 E 1363958.68
10+44.09 WATERLINE - 'I'	1/32 H.B.	N 558205.78 E 1363997.14
11+63.80 WATERLINE - 'I'	8"X8" TEE & VALVE (FIRE HYDRANT #19)	N 558311.83 E 1363542.02
11+68.63 WATERLINE - 'I'	8"X4" REDUCER & VALVE	N 558316.29 E 1363539.70
12+26.91 WATERLINE - 'I'	BLOWOFF VALVE, CAP & BUTTRESS	N 558367.99 E 1363512.81

PROFESSIONAL CERTIFICATION
I, BRANDON R. ROWE, HEREBY CERTIFY THAT THESE
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UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 40808, EXPIRATION DATE: 7/3/2017

THE FOLLOWING STATES REQUIRE NOTIFICATION BY
EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO
DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE:
IN VIRGINIA, MARYLAND, THE DISTRICT OF COLUMBIA, AND
DELAWARE CALL: 811
(WV 1-800-245-4848) (PA 1-800-242-1776) (DC 1-800-257-7777)
(VA 1-800-552-7001) (MD 1-800-257-7777) (DE 1-800-283-8666)

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND  CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	 901 DULANEY VALLEY ROAD, SUITE 801 TOWSON, MARYLAND 21284 Phone: (410) 821-7900 Fax: (410) 821-7987 www.BohlerEngineering.com	 BRANDON R. ROWE PROFESSIONAL ENGINEER LICENSE NO. 40808, EXPIRATION DATE: 7/3/2017	DES. J.A.				PHASE III WATER FITTING CHARTS PARCEL NO. N/A 600' SCALE MAP NO. 17 BLOCK NO. 5	ESTATES AT PATAPSCO PARK ROGERS AVENUE BUILDABLE LOTS 253 - 317 (W&S) 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO.: 14-4967-D	SCALE
				DRN. R.L.B.						SHEET
				CHK. B.R.R.						12 OF 14
				DATE 4/13/16	REV.	DATE	DESCRIPTION	BY		



EXPLODED VIEW
SCALE: 1"=10'

SEQUENCE OF CONSTRUCTION

1. ACTIVITIES WITHIN STREAM CHANNELS ARE PROHIBITED AS DETERMINED BY THIS CLASSIFICATION OF STREAM (COMAR 26.08.02.13). PATAPSCO RIVER AREA - 02130900 IS A USE-1 WATERWAY. IN-STREAM WORK MAY NOT BE CONDUCTED FROM MARCH 1 THROUGH JUNE 15 INCLUSIVE, OF ANY YEAR. REFER TO MDS LETTER OF AUTHORIZATION PERTAINING TO THIS CROSSING FOR ADDITIONAL DETAILS AND INFORMATION.
2. OBTAIN GRADING PERMIT.
3. ONCE ALL PERMITS ARE IN HAND SCHEDULE MEETING IN THE FIELD WITH THE SEDIMENT CONTROL INSPECTOR. - 1 DAY
4. INSTALL STABILIZED CONSTRUCTION ENTRANCE - 1 DAY
5. INSTALL SILT FENCE AND OTHER EROSION AND SEDIMENT CONTROL MEASURES. - 1 WEEK
6. INSTALL SUPER SILT FENCE PARALLEL TO THE STREAM BANKS AS SHOWN - 3 DAYS
7. INSTALL PUMP AROUND PRACTICE PER DETAIL MWGC 1.2 - 2 DAYS
8. INSTALL 8" SEWER MAIN PIPE. CONSTRUCT ENOUGH FOR ONE DAY'S WORK, INCLUDING BACKFILL AND STABILIZING AREA DISTURBED. STABILIZE STREAM BOTTOM PER OPTION # 2 OF DETAIL MWGC 4.2(b). - 1 WEEK
9. STABILIZE SLOPES UP GRADIENT OF THE STREAM BOTTOM PROTECTION WITH BRUSH MATTRESSES PER DETAIL MWGC 2.8. 2 DAYS
10. SEED AND STABILIZE AREAS OUTSIDE OF THE STREAM BANKS PER "STANDARDS SPECIFICATIONS FOR VEGETATIVE STABILIZATION" - 2 DAYS
11. REMOVE TEMPORARY PUMP AROUND PRACTICE. - 1 DAY
12. ONCE SEDIMENT CONTROL INSPECTOR IS SATISFIED THAT THE DISTURBED AREAS HAVE BEEN STABILIZED REMOVE SEDIMENT CONTROL. - 3 DAYS

PROFESSIONAL CERTIFICATION
I, BRANDON R. ROWE, 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. 40898, EXPIRATION DATE: 7/31/17

THE FOLLOWING STATES REQUIRE NOTIFICATION BY EDUCATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE IN VIRGINIA, MARYLAND, THE DISTRICT OF COLUMBIA, AND DELAWARE CALL - 811
VA 1-800-245-4844 (PA 1-800-442-7176) DC 1-800-257-3777
WA 1-800-655-7001 (MD 1-800-257-7777) (DE 1-800-282-8555)

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

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND
Brandon R. Rowe 5.13.16
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

BOHLER ENGINEERING
901 DULANEY VALLEY ROAD, SUITE 801 TOWSON, MARYLAND 21204
Phone: (410) 821-7900 Fax: (410) 821-7987
www.BohlerEngineering.com

B.R. ROWE
PROFESSIONAL ENGINEER
LICENSE NO. 40898

DES: J.A.					
DRN: R.L.B.					
CHK: B.R.R.					
DATE: 4/13/16	REV.	DATE	DESCRIPTION	BY	

**PHASE III
STREAM CROSSING DETAILS**

PARCEL NO. N/A
800' SCALE MAP NO. 17 BLOCK NO. 5

ESTATES AT PATAPSCO PARK
ROGERS AVENUE
BUILDABLE LOTS 253 - 317 (W&S)
6TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CONTRACT NO.: 14-4967-D

SCALE
SHEET
14 OF 14