

QUANTITY TABLE				
ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
TRANSITION MH (HO. CO. STD.S-4.14)	1	1	48"	Contractors Precast Corp.
8" SEWER MAIN (PVC C-900)	23 LF	23 L.F.	PVC	Westlake/Belair Road Supply
8" WATER MAIN (PVC C-900, DR-18)	530 LF	530 L.F.	PVC	Westlake/Belair Road Supply
1 1/2" WATER HOUSE CONNECTION	190 LF	190 L.F.		Infra Pipe Solutions/Belair Road Supply
# 1 1/2" WHC	6 EACH	6 EA		Infra Pipe Solutions/Belair Road Supply
12"x8" C.	1 EACH	1 EA		
1/8 H.B. (8")	1 EACH	1 EA		Integrity Fusion/Belair Road Supply
1/32 H.B. (8")	1 EACH	1 EA		Integrity Fusion/Belair Road Supply
8"x8" F.H.T. & V.	2 EACH	2 EA		Mueller Co./ Belair Road Supply
FIRE HYDRANT	2 EACH	2 EA		Mueller Co. / Belair Road Supply
8" CAP & BUTTRESS	1 EACH	1 EA		
DRAIN	1 EACH	1 EA		
2" FORCE SEWER MAIN (500-21 PVC)	596 L.F.	596 L.F.		Infra Pipe Solutions/Belair Road Supply
1.5" SHC FORCE MAIN LPSS	90 L.F.	90 L.F.		Infra Pipe Solutions/Belair Road Supply

NAME OF UTILITY CONTRACTOR: J&A Construction Services
 SURVEY AND DRAFTING DIVISION AS-BUILT DATE: 04/17/2024

SHEET INDEX

NO.	DESCRIPTION
1	TITLE SHEET
2	WATER & SEWER PLAN, PROFILES AND DETAILS

MANHOLE LOCATION CHART

MH #	LOCATION (NORTHING & EASTING)	RIM ELEVATION
MH-1	N 538,021.00 E 1,342,778.91	397.29
MH-2	N 537,987.78 E 1,342,777.19	397.59

8" WATER MAIN TABULATION CHART

APPURTENANCE	W/L STATION	LOCATION (NORTHING & EASTING)
12"x8" T.S.&V.	0+00.00	N 538,046.58 E 1,342,792.70
8"x6" FH & V	0+35.00	N 538,012.26 E 1,342,790.87
FH	0+35.00	N 538,012.08 E 1,342,798.97
1/32 H.B.	0+50.00	N 537,998.86 E 1,342,790.26
2.0" COUPLING-VERT.	1+00.00	N 537,948.22 E 1,342,778.30
3.5" COUPLING-VERT.	2+00.00	N 537,850.98 E 1,342,754.90
8"x8" FHT&V	3+95.00	N 537,661.49 E 1,342,708.74
FH	3+95.00	N 537,358.22 E 1,342,722.18
1/8 H.B.	4+15.26	N 537,642.34 E 1,342,703.85
DRAIN	5+28.50	N 537,545.16 E 1,342,763.16
6" CAP AND BUTTRESS	5+30.00	N 537,643.48 E 1,342,763.62

WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE

LOT	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	11001 Audrey Lane	11'5" Lot 1 SHC	31' Lot 2 SHC
2	11005 Audrey Lane	42' Lot 2 SHC	29' to F. Hydrant
3	11009 Audrey Lane	38'5" to F. Hydrant	47' Lot 6 WHC
4	11013 Audrey Lane	24' Lot 3 SHC	8' Drain Station
5	11017 Audrey Lane	38' Lot 5 SHC	23' Lot 6 SHC
6	11021 Audrey Lane	47' Lot 3 WHC	34' Lot 3 SHC

SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE

LOT	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
1	11001 Audrey Lane	11'5" Lot 1 WHC	20' Lot 2 SHC
2	11005 Audrey Lane	20' Lot 1 SHC	42' Lot 2 WHC
3	11009 Audrey Lane	34' Lot 6 WHC	24' Lot 4 WHC
4	11013 Audrey Lane	28' Lot 3 WHC	39' Lot 5 WHC
5	11017 Audrey Lane	38' Lot 5 WHC	34' Lot 6 SHC
6	11021 Audrey Lane	38' Lot 5 WHC	34' Lot 5 SHC

CONTRACT NO.: 24-5074-D

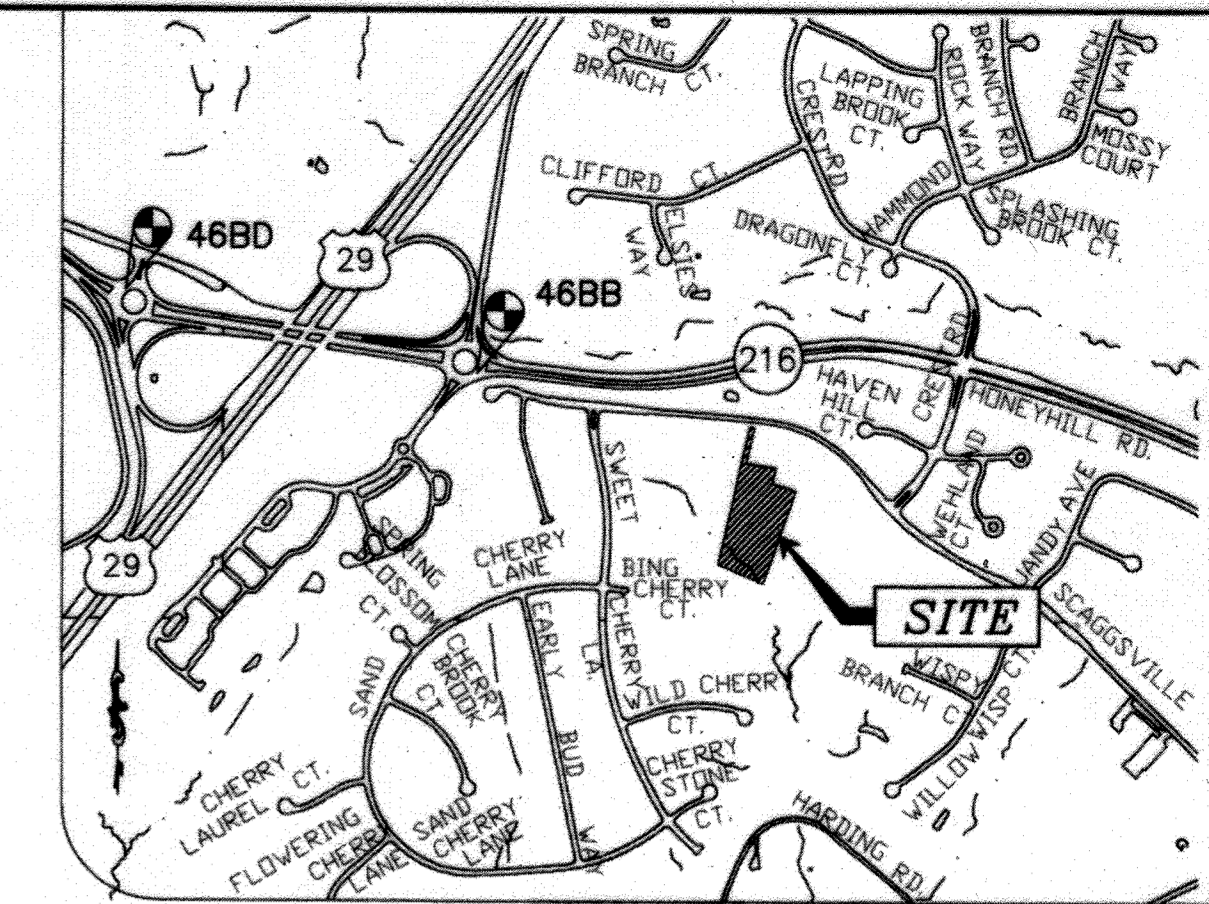
ISLA'S WOODS

LOTS 1 THRU 6

FINAL WATER AND SEWER CONSTRUCTION PLANS

HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS



GENERAL NOTES

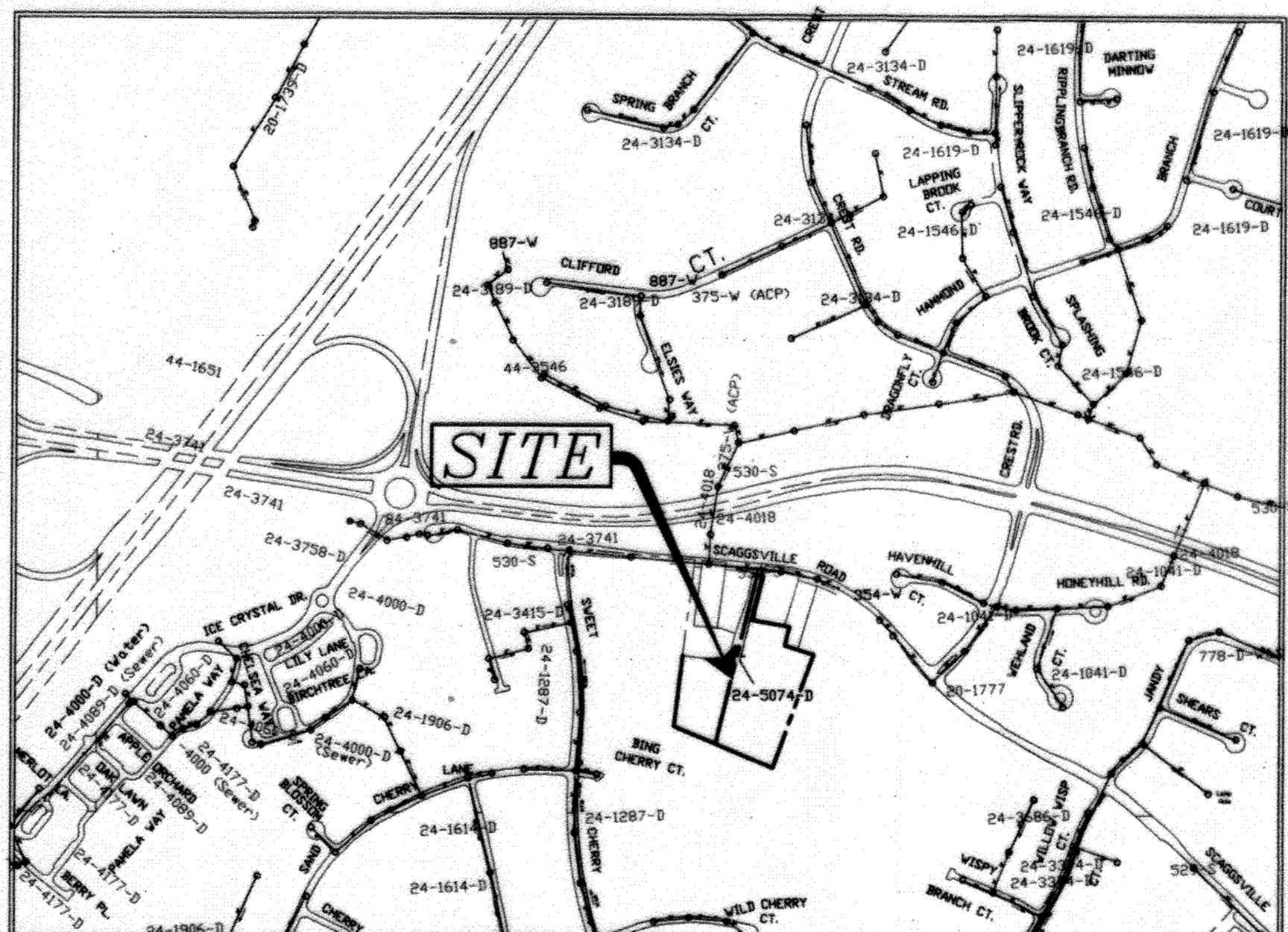
- PART I**
- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 - TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON OR ABOUT AUGUST 2017 BY MILDENBERG, BOENDER & ASSOC. 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. 37-BA AND NO. 37BB. ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. MILDENBERG, BOENDER & ASSOCIATES, INC. SHALL PROVIDE DESCRIPTION OF VERTICAL CONTROL POINTS, I.E., IRON BARS, CROSS CUTS ON CONCRETE STRUCTURES, ETC).
 - 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 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 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).....410-685-0123
 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
 - 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 ANY ROAD FOR LAYING OF WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DWP REQUIREMENTS PER SECTION 8.114(A) OF THE HOWARD COUNTY CODE.

PART II WATER

- ALL WATER MAINS SHALL BE PVC C900 (DR-14) UNLESS OTHERWISE NOTED.
- 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 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- TRACER WIRES AND CONTINUITY TEST STATIONS SHALL BE INSTALLED ON ALL DIP AND PVC WATER MAINS IN ACCORDANCE WITH THE 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 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 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, 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. SEVENTEEN (17) POUND MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND DUCTILE IRON FITTINGS INCLUDING RESTRAINTS AND HARNESSSES. TWELVE (12) POUND 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.
- PROPER ASSEMBLY OF GASKETED PVC PIPE JOINTS: THE MANUFACTURER'S INSERTION LINE OF GASKETED PVC PIPE JOINTS INDICATES THE MAXIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. AFTER ASSEMBLY OF THE JOINT, THE INSERTION LINE SHALL REMAIN VISIBLE. DUAL INSERTION LINES ON GASKETED PVC PIPE INDICATE THE MAXIMUM AND MINIMUM DEPTH OF INSERTION OF THE SPIGOT INTO THE BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPIGOT INTO THE BELL OF PVC PIPE.
- ALL CHANGES IN HORIZONTAL OR VERTICAL DIRECTION OF PVC WATER PIPE SHALL BE MADE WITH STANDARD BENDS, 5-DEGREE SWEEPS OR HIGH DEFLECTION (HD) COUPLINGS. NO BENDING OF THE PIPE OR DEFLECTING OF PVC PIPE JOINTS IS PERMITTED, WHERE HIGH DEFLECTION COUPLINGS OR 5-DEGREE SWEEPS ARE PERMITTED, THE CONTRACTOR SHALL PROVIDE ONE FULL PIPE LENGTH (20-FOOT LONG) ON EITHER SIDE OF THE HIGH DEFLECTION COUPLING OR 5-DEGREE SWEEP. THE CONTRACTOR SHALL USE A VIBRATORY PLATE COMPACTOR OR OTHER APPROVED MEANS TO THOROUGHLY COMPACT THE #57 STONE ON BOTH SIDES OF THE HIGH DEFLECTION COUPLING OR 5-DEGREE SWEEP, TAKING CARE NOT TO USE COMPACTOR EQUIPMENT DIRECTLY OVER THE FITTING. PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL DEFLECTION OF 3-DEGREES (1/2-DEGREE ON EITHER END OF THE COUPLING). SHALL BE RATED FOR A MINIMUM 200 PSI MEETING THE REQUIREMENTS OF AWWA C900. SHALL HAVE A MINIMUM LAY LENGTH OF 9-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTAINTIED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL. FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR18 MEETING THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI FITTINGS (PEX) BLUE BRATED DR18 OR EQUAL.
- WHEN PVC HIGH DEFLECTION COUPLINGS OR PVC 5-DEGREE SWEEPS ARE USED TO FACILITATE CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENTS OF AWWA C-900 PVC PIPELINES, THE CONTRACTOR SHALL INSTALL DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS OR PLAIN ENDS INTO THE PUSH ON BELL JOINT ON BOTH SIDES OF THE HIGH DEFLECTION COUPLINGS AND 5 DEGREE SWEEPS. BELL STOPS SHALL BE PLACED AT THE PROPER INSERTION LINE FOR THE FITTING. THE BELL STOP SHALL BE MANUFACTURED OF DUCTILE IRON AND INCORPORATE AN EXPANSION RETENTION SPRING TO ALLOW FOR PIPE EXPANSION AND CONTRACTION. THE BELL STOPS SHALL BE SERIES 5000 MEGA-STOP, AS MANUFACTURED BY EBAA IRON, INC. OR APPROVED EQUAL.
- FOR A MINIMUM 1.5" BELL FOR SINGLE FAMILY DWELLINGS OUTSIDE METER SETTINGS FOR 1" METERS SHALL BE USED.

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 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 THE CELLAR CANNOT BE SERVED.
- GRINDER PUMPS ARE PRIVATELY OWNED AND PRIVATELY MAINTAINED BY HOMEOWNER.



TYPE OF BUILDING	RESIDENTIAL
No. OF UNITS	6
No. OF WATER HOUSE CONNECTION	6
No. OF SEWER HOUSE CONNECTIONS	6
DRAINAGE AREA	PATAPSCO
TREATMENT PLANT	PATAPSCO

WATER ZONE: 550
 TEST GRADIENT: 827
 TEST PRESSURE: 203 PSI

ADDITIONAL NOTES:

WAIVER DMV2-23-021 - A DESIGN MANUAL WAIVER FOR THE USE OF PUBLIC LOW-PRESSURE SEWER SYSTEM (LPSS) AND TO SECTION 5.3.8.1 OF HOWARD COUNTY WAS APPROVED ON MAY 16, 2023. THE APPROVED WAIVER PLAN FROM AUGUST 2022 UTILIZED INDIVIDUAL PRIVATE LOW-PRESSURE SEWER SYSTEMS. THE SIX LPSS CONNECTION ARE IMPRACTICAL FROM A CONSTRUCTIBILITY PERSPECTIVE AND THE DEVELOPER IS REQUESTING A WAIVER TO REQUEST THE USE OF PUBLIC LPSS. (500-21 PVC).

ADDITIONALLY, THE DEVELOPER IS REQUESTING A WAIVER TO SECTION 5.3.8.1 OF THE HOWARD COUNTY DESIGN MANUAL VOLUME II, WHICH REQUIRES A 30' WIDE EASEMENT TO MAINTAIN THE WATER AND SEWER SYSTEM BEING INSTALLED. DUE TO TO EXISTING SITE CONSTRAINTS, THE DEVELOPER IS PROPOSING A 28.43' EASEMENT IN LIEU OF A 30' EASEMENT.

FROM THE INFORMATION PROVIDED AND SUBSEQUENT INFORMATION RECEIVED, IT IS UNDERSTOOD THAT THE AFFECTED LOTS ARE LOT 1-6 AND EACH LOT WILL HAVE AN INDIVIDUAL PRIVATELY OWNED GRINDER PUMP WITH A 1.5" FORCE MAIN TIED INTO THE COMMON PUBLIC 2" FORCE MAIN DOWN THE USE-IN-COMMON DRIVEWAY. THE 2" FORCE MAIN CONTINUES TO TERMINATE AT STA 5+96 ON LOT 5.

BASED ON THE INFORMATION PROVIDED, THE WAIVER REQUEST TO SECTION 8.2.A IS CONDITIONALLY APPROVED UPON THE FOLLOWING CONDITIONS:

- MOVE THE TERMINAL FLUSHING CONNECTION TO THE END OF THE 2" MAIN AT STA 5+96, WHICH IS THE TRUE TERMINAL END OF THE LPSS.
- PROVIDE A HYDRAULIC ANALYSIS FOR THE LPSS, PER SECTION 8.2.C.3.
- MAINTAIN 18" VERTICAL CLEARANCE BETWEEN THE LPSS AND WATER MAIN BETWEEN WHCs AND SHCs, PER CURRENT TEN STATE STANDARDS.
- PLEASE NOTE THAT THE GRINDER PUMPS (PRIVATE) DO NOT HAVE TO BE LOCATED RIGHT ALONG THE PROPERTY LINES. THE GRINDER PUMPS MAY BE LOCATED ANYWHERE ON THE INDIVIDUAL PROPERTY.

REQUESTED WAIVER TO SECTION 5.3.8.1 IS APPROVED.

USE E-ONE GRINDER PUMP DH151 MODEL (SEE DETAIL ON SHEET 2 OF 2).

EROSION AND SEDIMENT CONTROL
FOR THIS CONTRACT IS PROVIDED
UNDER: F-18-079

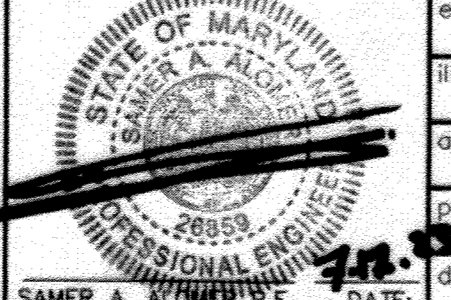
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

OWNER

RAFAT LLC
 5550 STERRETT PLACE, SUITE 103
 COLUMBIA, MD, 21044
 443-538-9547

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. 28859, EXP DATE 08/08/25

MILDENBERG, BOENDER & ASSOC., INC.
 Engineers Planners Surveyors
 8318 Forrest Street, Suite 300, Elkton City, Maryland 21041
 (410) 597-0296 Tel. (410) 597-0298 Fax



engineering	MM	1	REVISED PRIVATE PRESSURE SHCS TO A PUBLIC 2" LOW PRESSURE SEWER SYSTEM WITH PRIVATE GRINDER PUMPS ON EACH LOT	DATE
illustration	MM	DFI	AS-BUILT REVISIONS	4/30/24
approval	SA			
project				
date				JULY 2023

TITLE SHEET

ISLA'S WOODS
LOTS 1 THRU 6
CONTRACT NO.: 24-5074-D
6TH ELECTION DISTRICT
HOWARD COUNTY

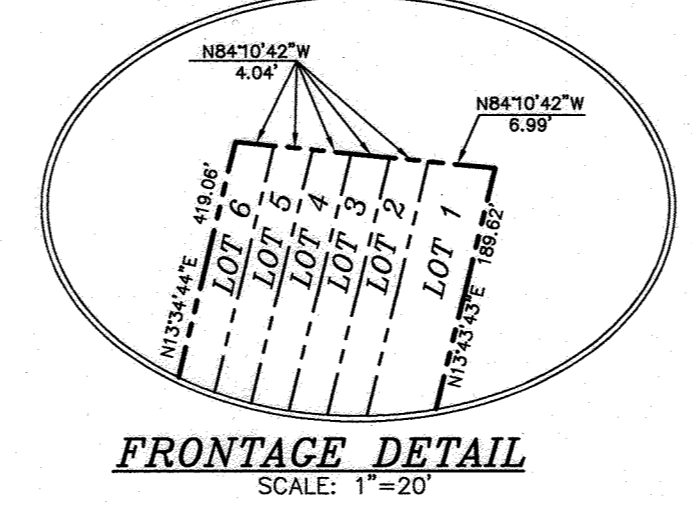
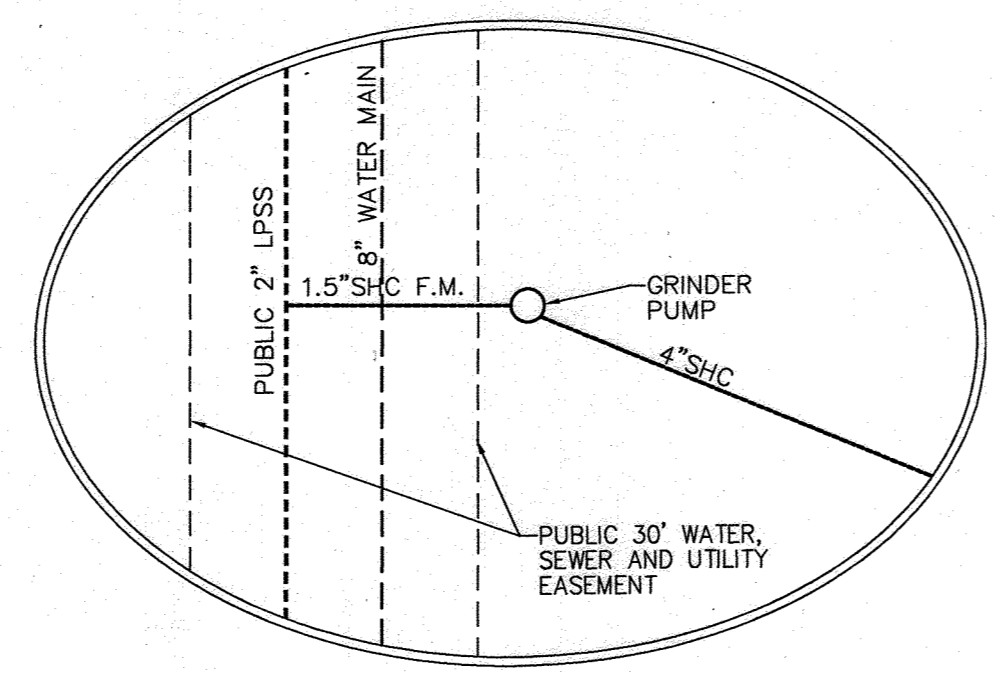
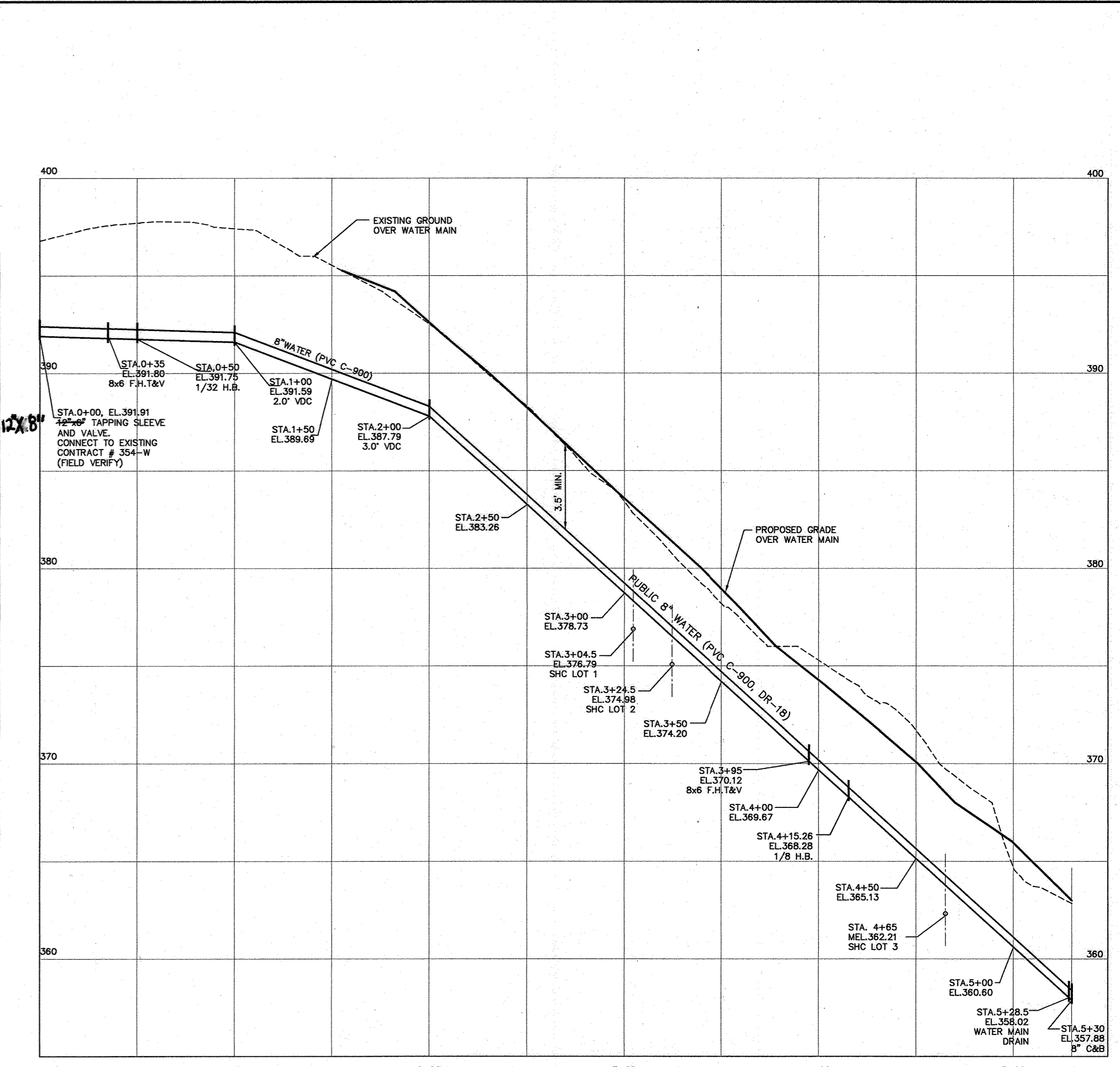
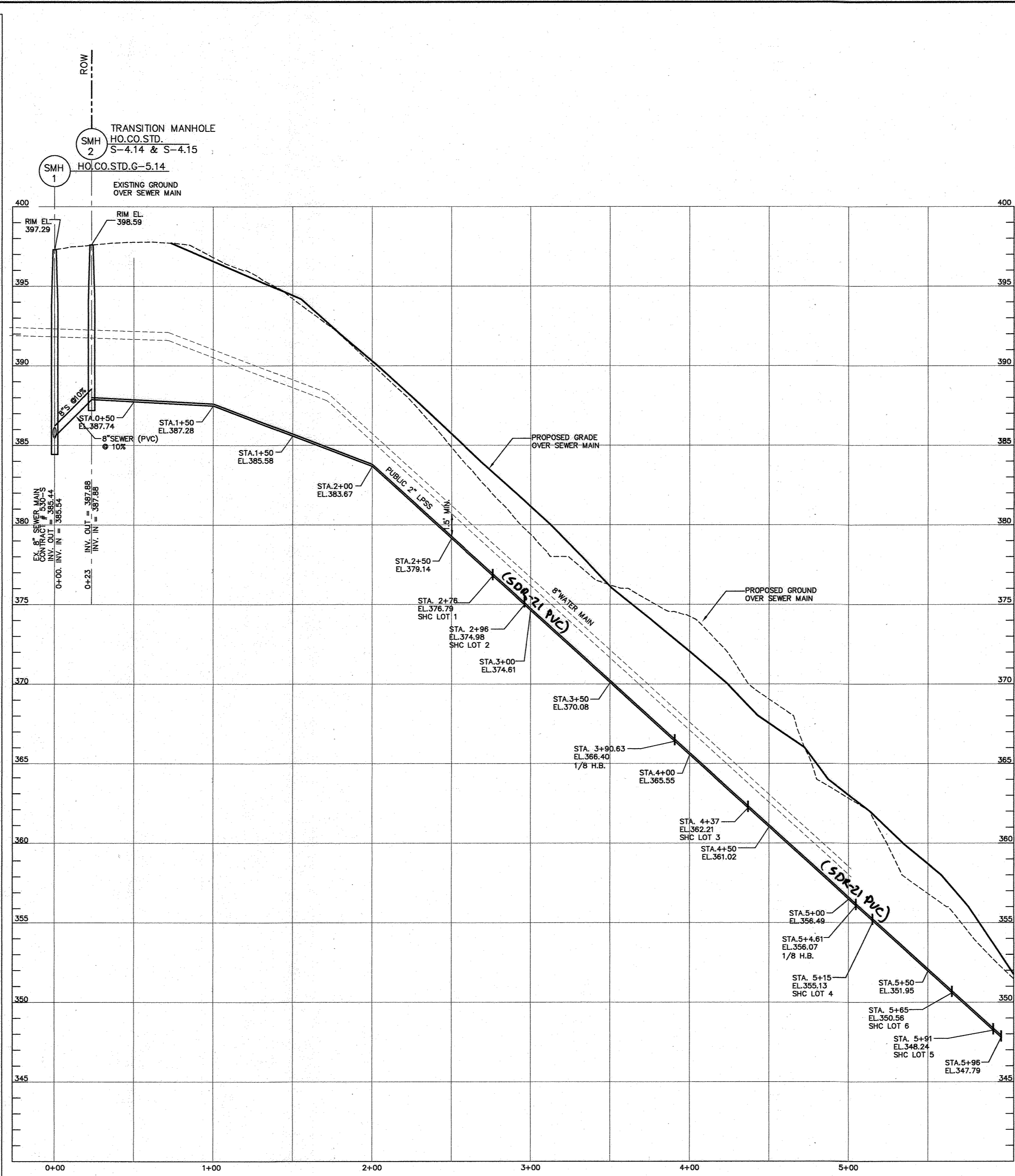
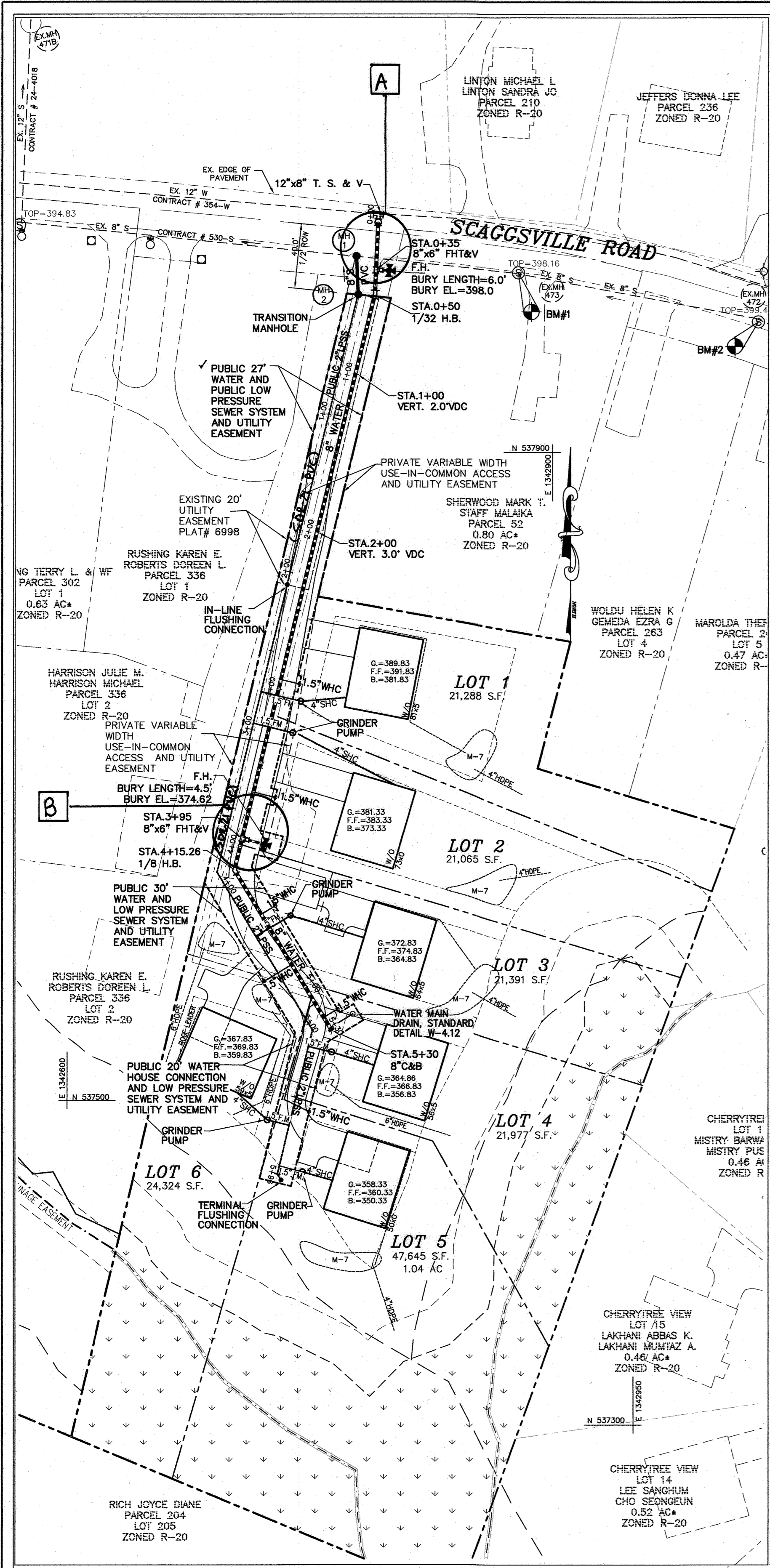
scale AS SHOWN
 1 OF 2

CHIEF, BUREAU OF UTILITIES
 DATE: 7/31/2023

CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 8-17-23

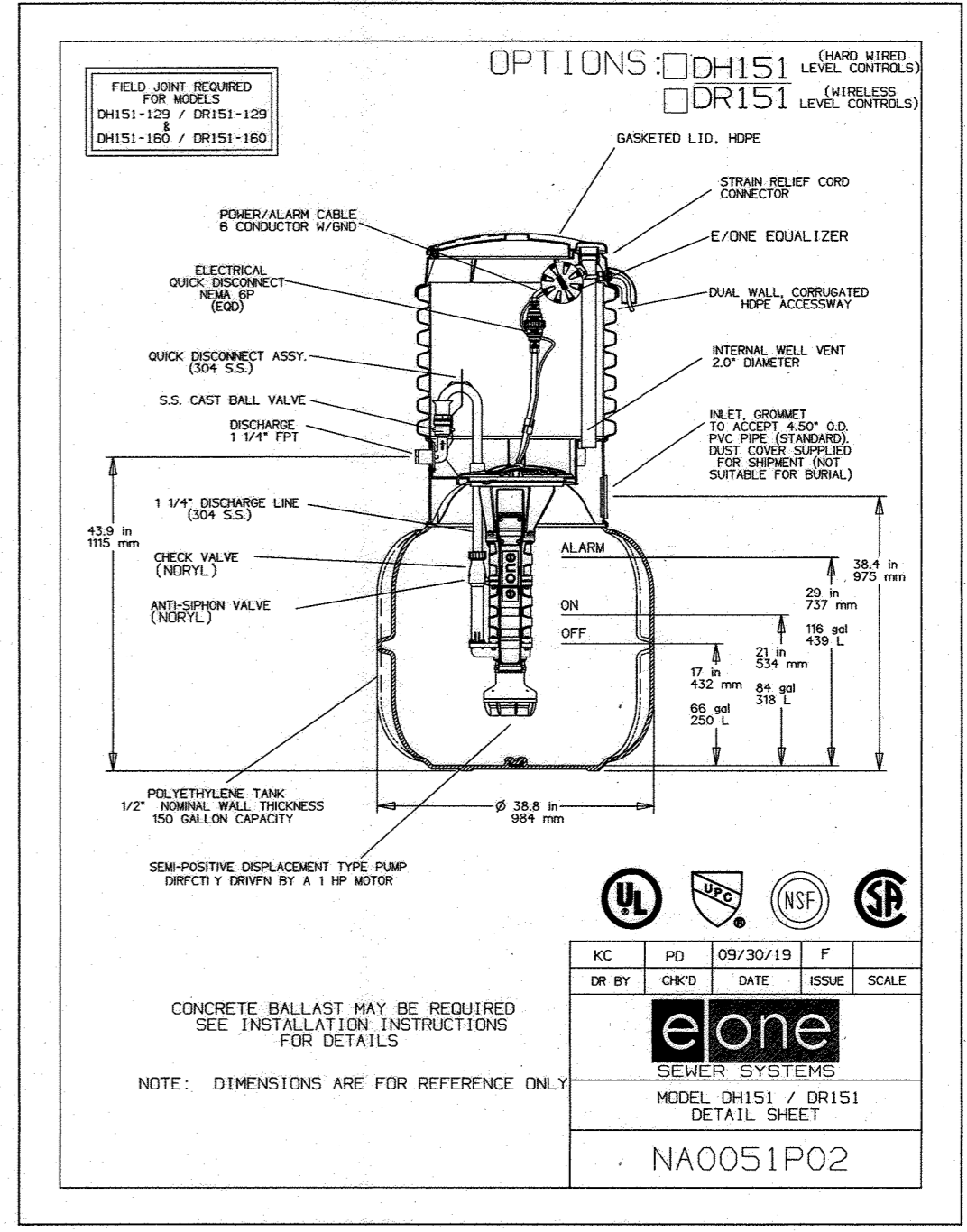
BY NO. REVISION DATE 600' SCALE MAP NO. 46 BLOCK NO. 5

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GRINDER PUMP CHART

LOT	BASEMENT ELEV.	SLOPE	INT. INTO PUMP	TOP ELEV. OVER PUMP
1	381.83	1%	378.33	382.5
2	373.33	1%	369.83	381.0
3	364.83	1%	361.33	368.0
4	356.83	1%	353.33	362.0
5	350.33	1%	346.83	355.2
6	359.83	3%	354.33	357.5



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

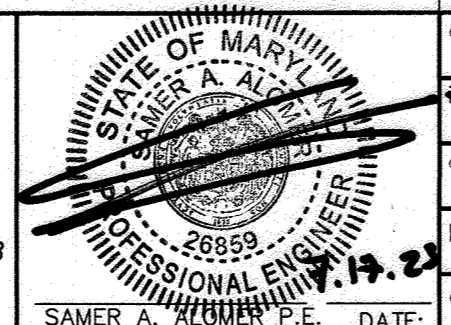
Alexandra Batchelor 08/09/23
HOWARD SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 7/31/2023
CHIEF, BUREAU OF UTILITIES DATE

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 26859, EXP DATE 08/08/25

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
8318 Forrest Street, Suite 300, Ellicott City, Maryland 21043
(410) 997-0296 Tel. (410) 997-0298 Fax.



ORIGINAL PLANS HAVE BEEN REDLINED

NO.	DATE	REVISION
1	08/09/23	REVISED PRIVATE PRESSURE SHCS TO A PUBLIC 2" LOW PRESSURE SEWER SYSTEM WITH PRIVATE GRINDER PUMPS ON EACH LOT
2	08/09/23	AS-BUILT REVISIONS

WATER AND SEWER PLAN, PROFILES AND DETAILS

600' SCALE MAP NO. 46 BLOCK NO. 5

ISLA'S WOODS
LOTS 1 THRU 6
CONTRACT NO.: 24-5074-D
6TH ELECTION DISTRICT
HOWARD COUNTY

scale AS SHOWN
2 OF 2

M:\2018\16-018 ISLA'S WOODS\DWG\GENERAL\water and sewer REV-map2023.dwg, 7/17/2023 3:59:32 PM, AMT