

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 IN OCTOBER, 2019 BY BENCHMARK ENGINEERING, 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. 48FB AND NO. 47AA.
ALL VERTICAL CONTROLS ARE BASED ON NAVD '88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE 3805 AND 3806.
- 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 TUNNELS 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 (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
- 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 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(g) OF THE HOWARD COUNTY CODE.

PART II WATER

- ALL WATER MAINS TO BE PVC C900 DR18 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 THE STANDARD DETAILS AND SECTION 1000 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 PVC C900 WATER MAINS IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL.
- FOR PVC C900 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 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 AND 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 COMPACTION EQUIPMENT DIRECTLY OVER THE FITTING.
- PVC HIGH DEFLECTION COUPLINGS SHALL BE LIMITED TO A TOTAL DEFLECTION OF 3-DEGREES (1 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 8-INCHES AND SHALL HAVE CENTER STOPS. PVC HIGH DEFLECTION COUPLINGS SHALL BE CERTANTEED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL.
- 5-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 BRUTE 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 C900 PVC PIPELINES, THE CONTRACTOR SHALL INSTALL DEVICES FOR THE PREVENTION OF OVER-INSERTION OF THE PVC PIPE SPIGOTS OR PLUGS 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 EBMA IRON, INC. OR APPROVED EQUAL.

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 PVC 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 GS.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.

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

Howard Soil Conservation District
HOWARD SOIL CONSERVATION DISTRICT
DATE: 01/27/21

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER F-21-044.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Chief, Bureau of Public Works
10-18-21
DATE

Chief, Development Engineering Division
10-21-21
DATE

OWNER:
ESC WELLINGTON, L.C.
5074 DORSEY HALL DRIVE, SUITE 205
ELLCOTT CITY, MARYLAND 21042
410-720-3021

DEVELOPER:
ESC WELLINGTON, L.C.
5074 DORSEY HALL DRIVE, SUITE 205
ELLCOTT CITY, MARYLAND 21042
410-720-3021

Professional Certification. 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. 22390, Expiration Date: 6-30-2023

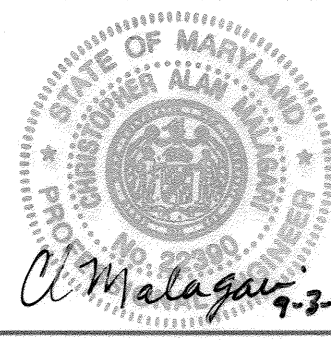
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Chief, Bureau of Public Works
10-18-21
DATE

Chief, Development Engineering Division
10-21-21
DATE

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE & SUITE 315 A ELLCOTT CITY, MARYLAND 21043
(P) 410-485-8105 (F) 410-485-8644
WWW.BE-CIVILENGINEERING.COM



DESIGN: LDD

DRAFT: LDD

CHK: DBT

DATE: 8.30.2021

BY	NO.	REVISIONS	DATE
WRA	1	QUANTITIES	8/4/22

PUBLIC WATER AND SEWER
TITLE SHEET

600 SCALE MAP #

BLOCK: ---

WELLINGTON FARMS
PHASE 1 SECTION 2

Lots 54 thru 132; Open Space Lots 133 thru 143; Parcel 'A'; Non-Buildable Bulk Parcels 'C', 'D', and 'E'

TAX MAP: 46 - GRID: 6 - PARCEL: 163
ZONED: R-20-MXD-3 / R-SC-MXD-3
ELECTION DISTRICT NO. 6 - HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-5137-D

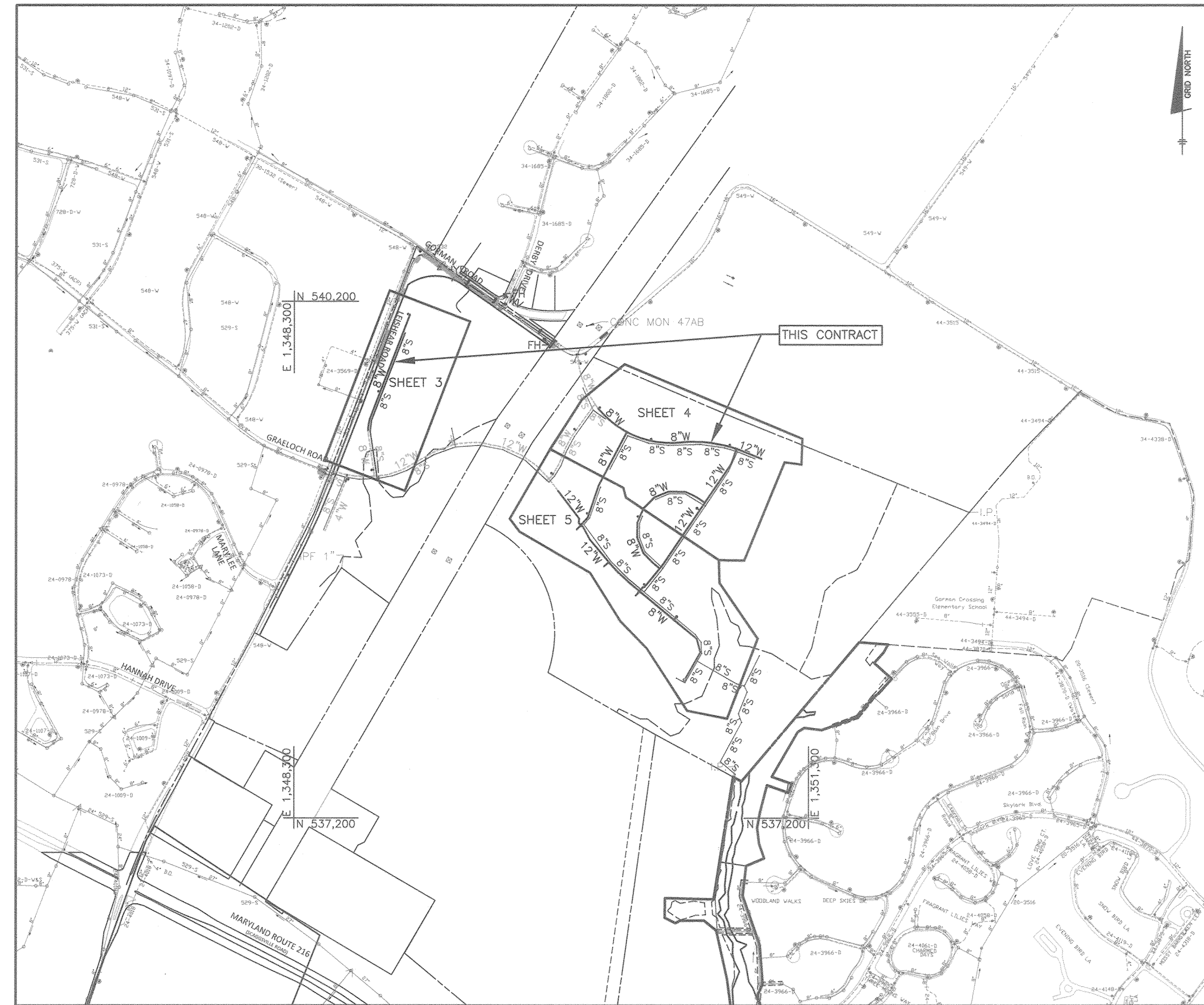
SCALE:
AS SHOWN

SHEET NO.
1 OF 9

WELLINGTON FARMS PHASE 1 SECTION 2 PUBLIC WATER AND PUBLIC SEWER PLANS CONTRACT NO.24-5137-D

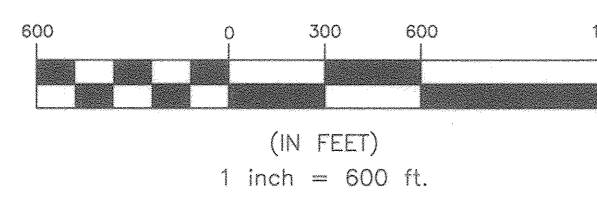
ITEMS	QUANTITIES ESTIMATED	ASBUILT		
		QUANTITIES	TYPE	MANU./SUPPLIER
12" WATER (PVC 900 DR-18)	2019 LF	2064	C-900	NAPCO
8" WATER (PVC 900 DR-18)	3386 LF	3418	C-900	NAPCO
8" FIRE HYDRANT, TEE & VALVE	9	9		MUELLER CO.
1.5" WHC	1815 LF	1701	COPPER	MUELLER CO.
1.5" TVHC	204 LF	207	COPPER	MUELLER CO.
1" METER VAULT	75	75	CONCRETE	HORNE
12"x12" CROSS	2	2		TYLER UNION
8"x8" CROSS	1	1		TYLER UNION
12"x8" WATER TEE	3	3		TYLER UNION
8"x8" WATER TEE	1	1		TYLER UNION
12" CAP AND BUTTRISS	1	1		TYLER UNION
8" CAP AND BUTTRISS	5	5		TYLER UNION
C.P.I.P.		83	CL 54	AMERICAN CAST IRON CO.
8" PVC SDR-35 SEWER	3701 LF	3172	SDR-35	NAPCO
8" DIP PUBLIC SEWER	1207 LF	1576	CL 54	AMERICAN CAST IRON CO.
MANHOLES	33	33	CONCRETE	ATLANTIC
4" SHC	1880 LF	2338	PLASTIC	NAPCO
4" DHC	225 LF	267	PLASTIC	NAPCO
CLEANOUTS	84	84	CONCRETE	PRISM

NAME OF UTILITY CONTRACTOR: CONSOLIDATED CONSTRUCTION SERVICES, INC. (C.C.S.)
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:



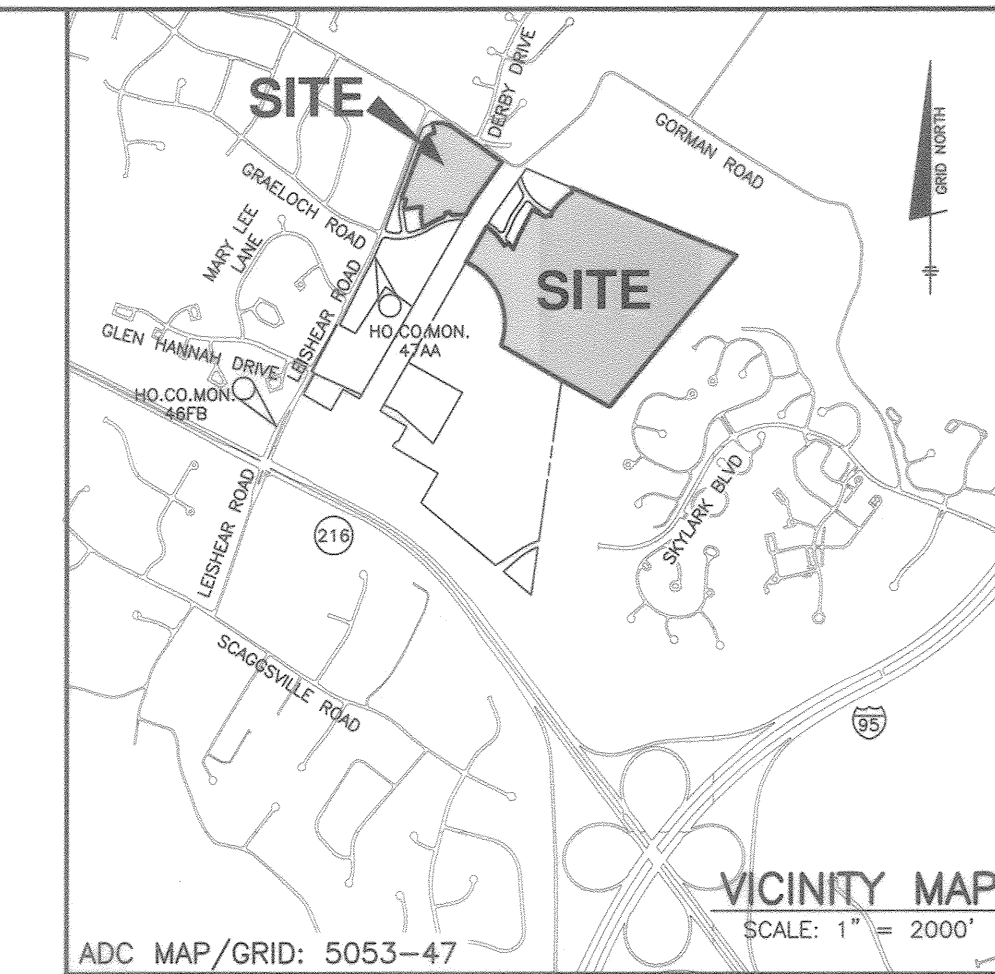
LOCATION MAP

SCALE: 1" = 600'



NOTE:
ALL WATER HOUSE CONNECTIONS ARE TO BE 1.5" WITH A 1" METER (OUTSIDE SETTING).
ALL SEWER HOUSE CONNECTIONS SHALL BE 4" PVC.
ALL TWIN WHC'S SHALL COMPLY W-3.32

TYPE OF BUILDING:	RESIDENTIAL
NUMBER OF UNITS:	79
NUMBER OF SHC'S:	84
NUMBER OF WHC'S:	84
DRAINAGE AREA:	HAMMOND BRANCH
TREATMENT PLANT:	LITTLE PATUXENT WRP
WATER ZONE:	550 SOUTH
TEST GRADIENT 8"	204
TEST PRESSURE 8"	828
TEST GRADIENT 12"	189
TEST PRESSURE 12"	804



ADC MAP/GRID: 5053-47

VICINITY MAP
SCALE: 1" = 2000'

LEGEND

	EXIST. OVERHEAD ELECTRIC TRANSMISSION LINES
	EXIST. OFFSITE WATER MAIN
	EXIST. OFFSITE SEWER MAIN
	EXIST. ONSITE WATER MAIN
	EXIST. ONSITE SEWER MAIN
	EXIST. ONSITE SEWER MANHOLE
	PROP. STORM DRAIN
	PROP. SEWER MAIN
	PROP. SEWER MANHOLE
	PROP. TERMINAL MANHOLE
	PROP. WATER MAIN
	PROP. FIRE HYDRANT
	PROP. VALVE
	PROP. CAP & BUTTRISS
	PROP. WATER HOUSE CONNECTION

SHEET INDEX

NO.	DESCRIPTION
1	TITLE SHEET
2	PHASING KEY SHEET
3	PUBLIC WATER AND SEWER PLAN
4	PUBLIC WATER AND SEWER PLAN
5	PUBLIC WATER AND SEWER PLAN
6	PUBLIC WATER AND SEWER PROFILE
7	PUBLIC WATER AND SEWER PROFILE
8	PUBLIC WATER AND SEWER PROFILE
9	PUBLIC WATER AND SEWER PROFILE



OWNER:
ESC WELLINGTON, L.C.
9074 DORSEY HALL DRIVE, SUITE 205
ELLCOTT CITY, MARYLAND 21042
410-720-3021

DEVELOPER:
ESC WELLINGTON, L.C.
9074 DORSEY HALL DRIVE, SUITE 205
ELLCOTT CITY, MARYLAND 21042
410-720-3021

MARYLAND AND VIRGINIA
MILK PRODUCERS
COOPERATIVE ASSOCIATION, INC.
PARCEL 'C'
PLAT #20137
11.946 AC.

MARYLAND AND VIRGINIA
MILK PRODUCERS
COOPERATIVE ASSOCIATION, INC.
PARCEL 'B'
PLAT #20137
75.577 AC.

MARYLAND AND VIRGINIA
MILK PRODUCERS
COOPERATIVE ASSOCIATION, INC.
PARCEL 'B'
PLAT #20137
75.577 AC.

HOWARD RESEARCH AND
DEVELOPMENT CORP.
1M 47 PARCEL 837
5289 / 330
ZONED: PEC-MXD-3

Professional Certification 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. 22396, Expiration Date: 6-30-2023.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE SUITE 315 ELLICOTT CITY, MARYLAND 21043
(P) 410-465-6105 (F) 410-465-6644
WWW.BE-CIVILENGINEERING.COM



DESIGN:	DBT/LDD
DRAFT:	DBT/LDD
CHK:	DBT
DATE:	8.30.2021
BY NO.	
REVISIONS	
DATE	

PHASING KEY SHEET

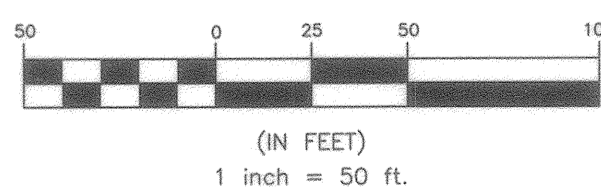
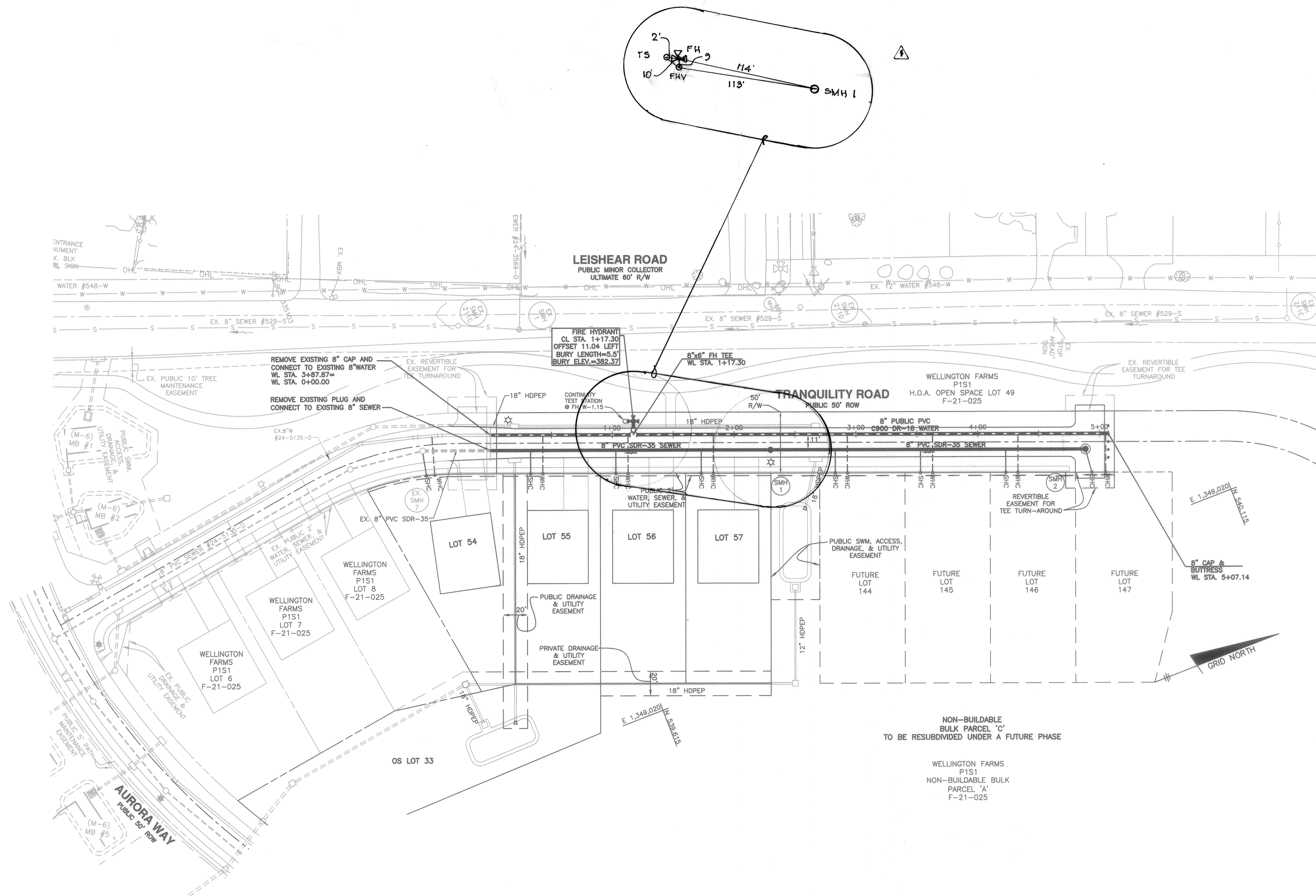
600 SCALE MAP: BLOCK:

WELLINGTON FARMS
PHASE 1 SECTION 2
Lots 54 thru 132; Open Space Lots 133 thru 143; Parcel 'A'; Non-Buildable Bulk Parcels 'C', 'D', and 'E'
TAX MAP: 46 - GRID: 6 - PARCEL: 163
ZONED: R-20-MXD-3 / R-SC-MXD-3
ELECTION DISTRICT NO. 6 - HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-5137-D

SCALE:
AS SHOWN
SHEET NO.
2 OF 9

[Signature]
10-19-21
DATE

[Signature]
DATE

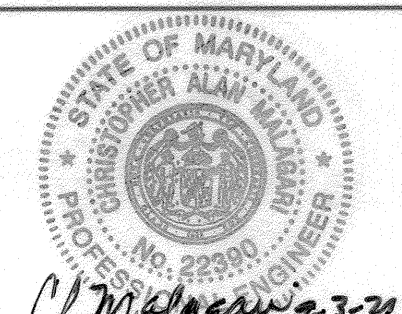


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DEVELOPER: ESC WELLINGTON, L.C.
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Professional Certification: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 23399, Expiration Date: 6-30-2023.

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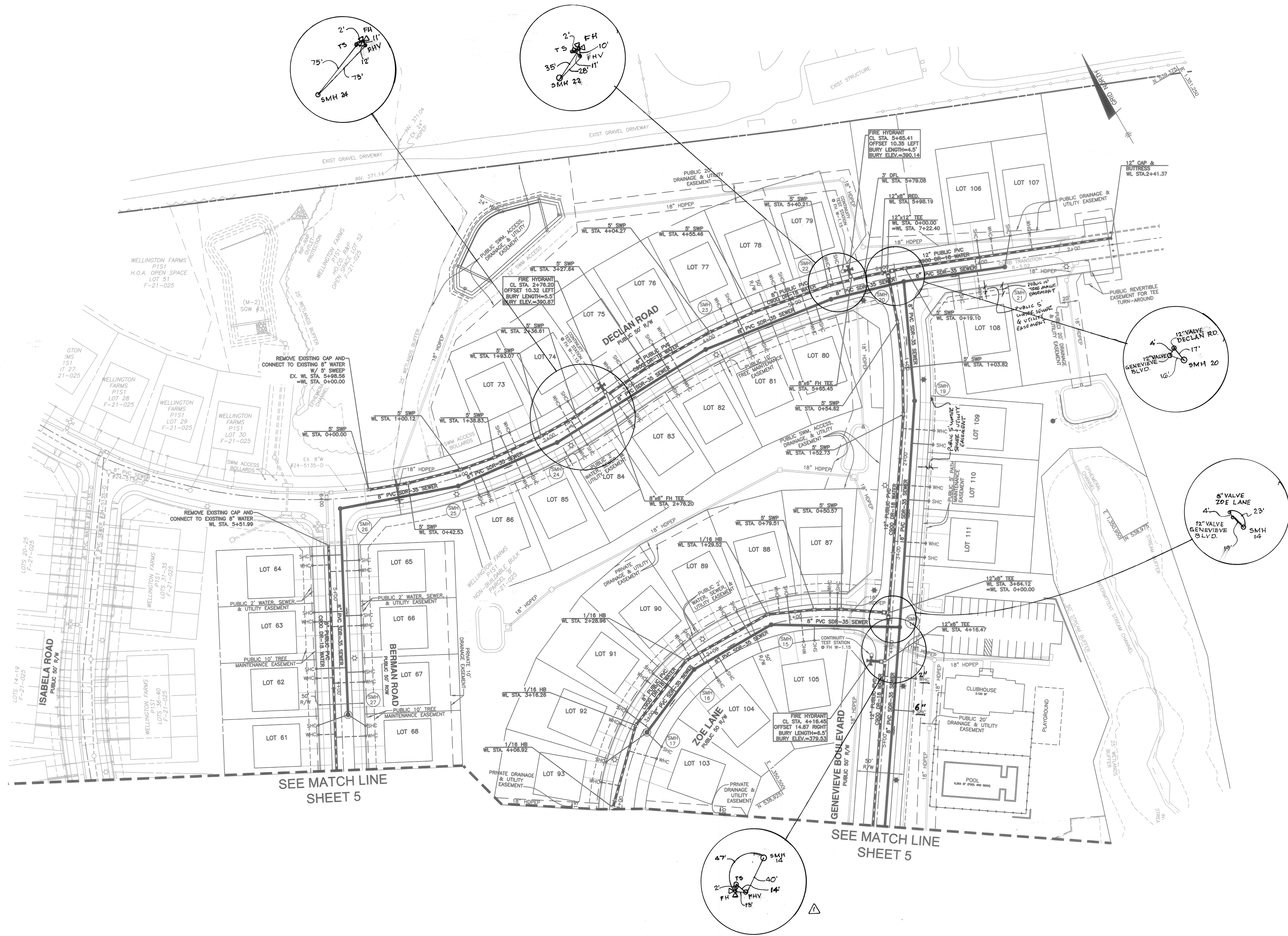
PUBLIC WATER AND SEWER PLAN

WELLINGTON FARMS
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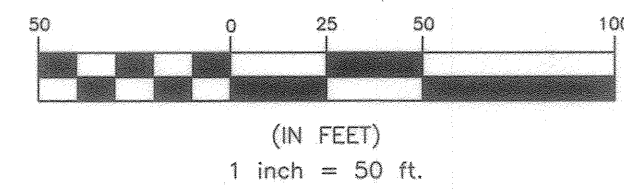
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
9-20-21

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
10-7-21



SEE MATCH LINE SHEET 5

SEE MATCH LINE SHEET 5

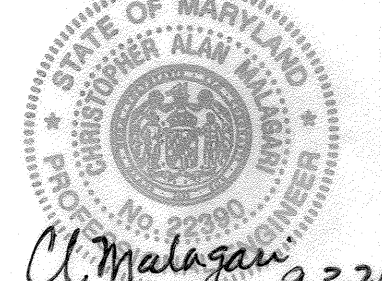


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BENCHMARK
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8480 BALTIMORE NATIONAL PIKE & SUITE 315 & ELLCOTT CITY, MARYLAND 21043
(P) 410-485-8105 (F) 410-485-8844
WWW.BE-CIVILENGINEERING.COM



DESIGN: LDD	DATE: 8.30.2021
DRAFT: LDD	
CHK: DBT	
DATE: 8.30.2021	
BY: WRA	
NO. 1	
AS BUILT	
DATE: 8/4/22	

PUBLIC WATER AND SEWER PLAN

600 SCALE MAP # xx

REVISIONS

BLOCK: ---

WELLINGTON FARMS
PHASE 1 SECTION 2
Lots 54 thru 132; Open Space Lots 133 thru 143; Parcel 'A'; Non-Buildable Bulk Parcels 'C', 'D', and 'E'

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SCALE:
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4 OF 9

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

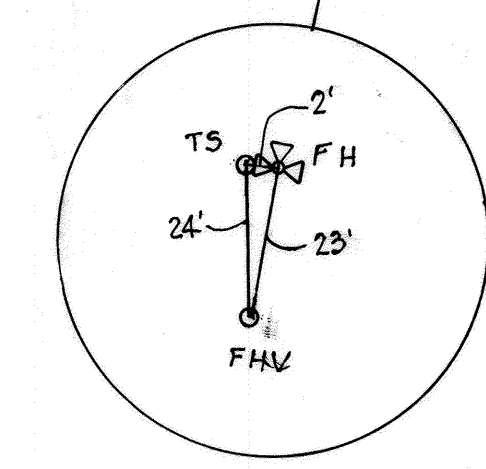
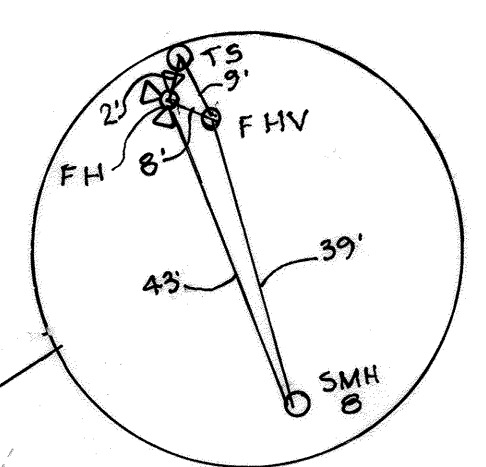
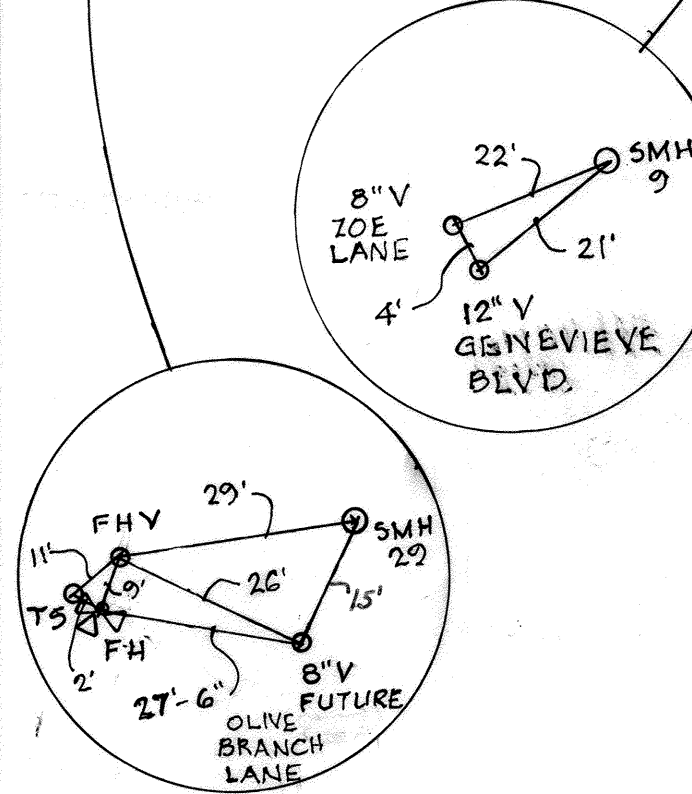
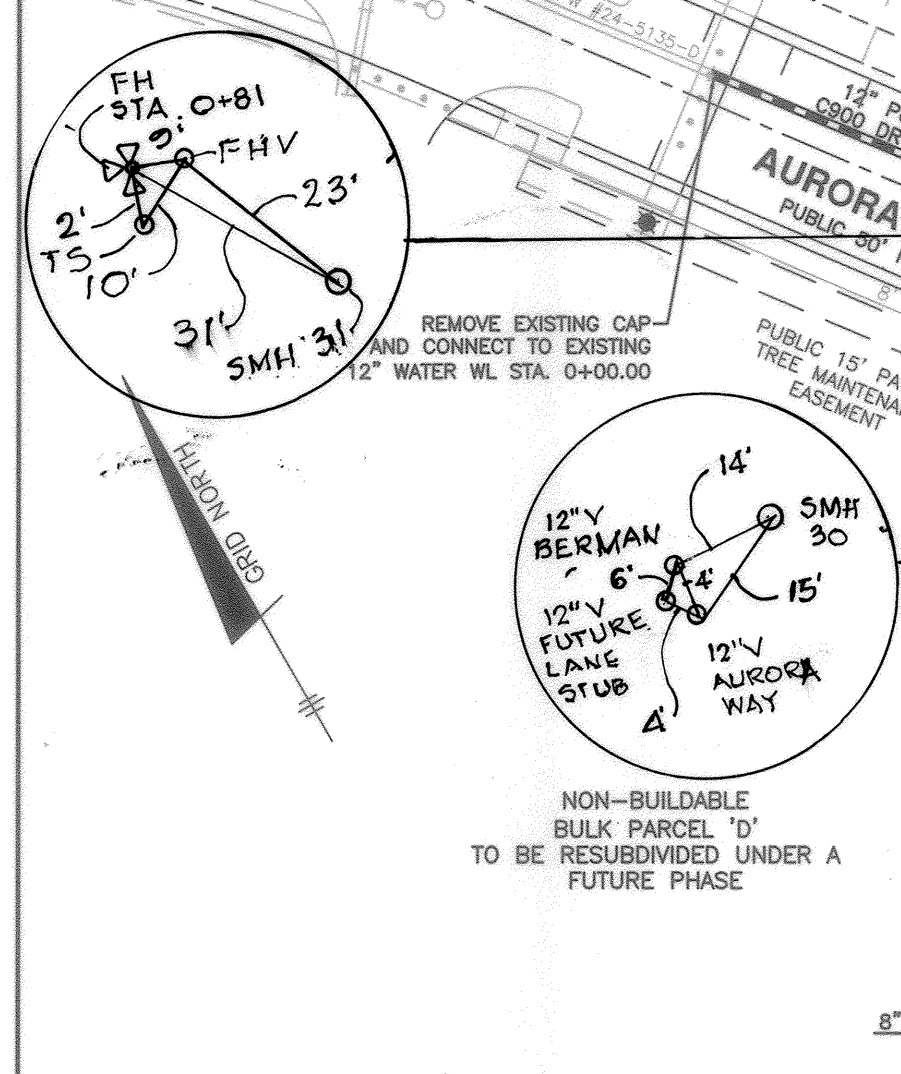
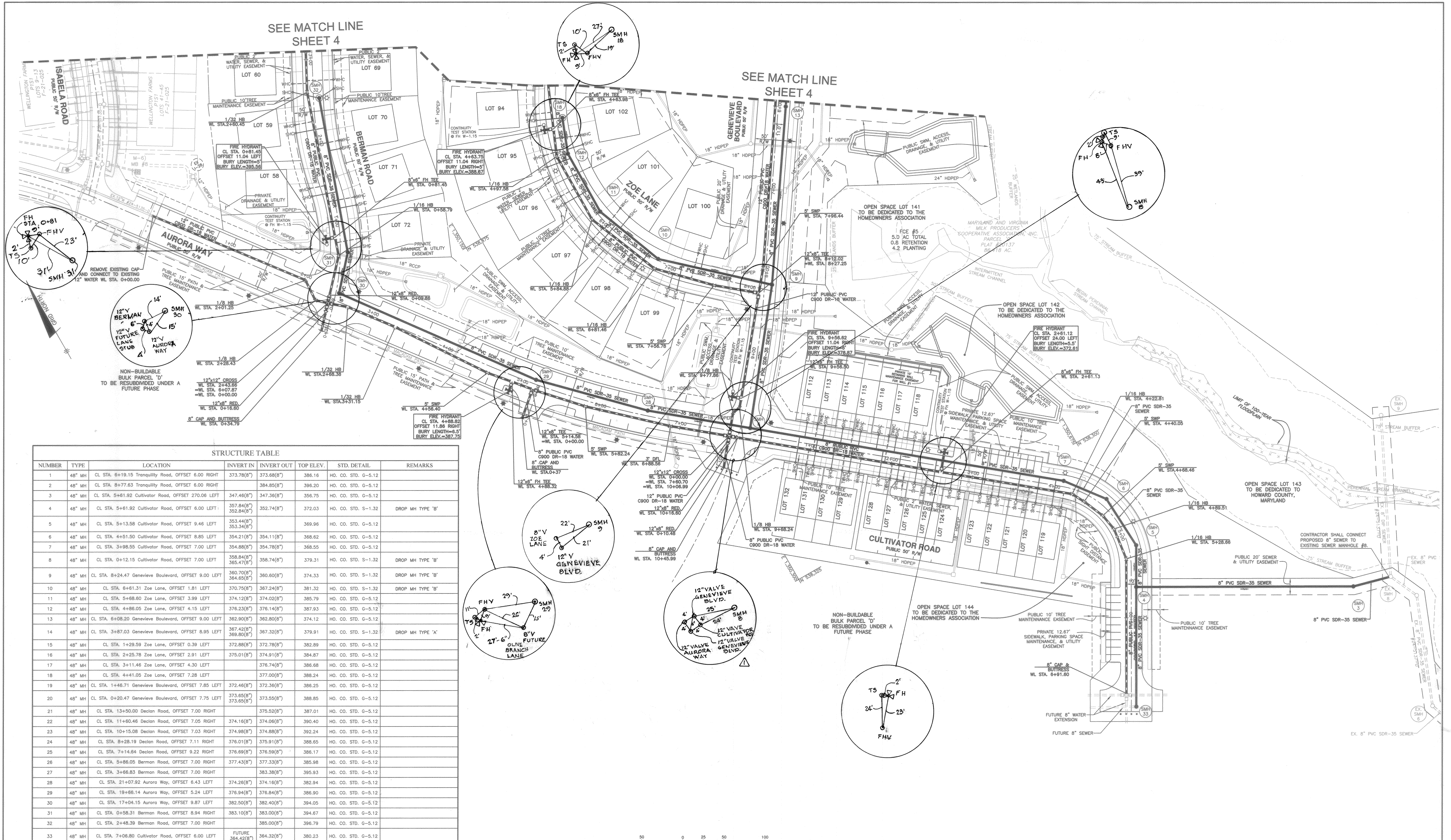
Chris Slap 9-20-21
CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

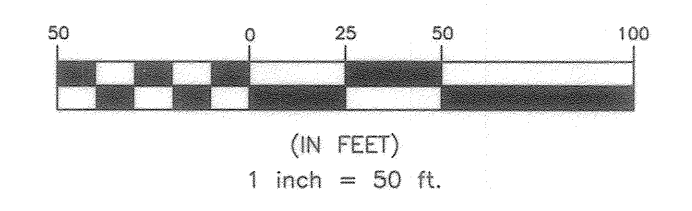
Cl. Malagan
CHIEF, DEVELOPMENT ENGINEERING DIVISION

SEE MATCH LINE
SHEET 4

SEE MATCH LINE
SHEET 4



STRUCTURE TABLE							
NUMBER	TYPE	LOCATION	INVERT IN	INVERT OUT	TOP ELEV.	STD. DETAIL	REMARKS
1	48" MH	CL STA. 6+19.15 Tranquility Road, OFFSET 6.00 RIGHT	373.78(8")	373.68(8")	386.16	HO. CO. STD. G-5.12	
2	48" MH	CL STA. 8+77.63 Tranquility Road, OFFSET 6.00 RIGHT	384.85(8")	384.75(8")	396.20	HO. CO. STD. G-5.12	
3	48" MH	CL STA. 5+61.92 Cultivator Road, OFFSET 270.06 LEFT	347.46(8")	347.36(8")	356.75	HO. CO. STD. G-5.12	
4	48" MH	CL STA. 5+61.92 Cultivator Road, OFFSET 6.00 LEFT	357.84(8") 352.84(8")	352.74(8")	372.03	HO. CO. STD. S-1.32	DROP MH TYPE 'B'
5	48" MH	CL STA. 5+13.58 Cultivator Road, OFFSET 9.46 LEFT	353.44(8") 353.34(8")	352.74(8")	369.96	HO. CO. STD. G-5.12	
6	48" MH	CL STA. 4+41.50 Cultivator Road, OFFSET 8.85 LEFT	354.21(8")	354.11(8")	368.62	HO. CO. STD. G-5.12	
7	48" MH	CL STA. 3+98.55 Cultivator Road, OFFSET 7.00 LEFT	354.88(8")	354.78(8")	368.55	HO. CO. STD. G-5.12	
8	48" MH	CL STA. 0+12.15 Cultivator Road, OFFSET 7.00 LEFT	358.84(8") 355.47(8")	358.74(8")	379.31	HO. CO. STD. S-1.32	DROP MH TYPE 'B'
9	48" MH	CL STA. 8+24.47 Genevieve Boulevard, OFFSET 9.00 LEFT	360.70(8") 364.65(8")	360.60(8")	374.33	HO. CO. STD. S-1.32	DROP MH TYPE 'B'
10	48" MH	CL STA. 6+61.31 Zoe Lane, OFFSET 1.81 LEFT	370.75(8")	367.24(8")	381.32	HO. CO. STD. S-1.32	DROP MH TYPE 'B'
11	48" MH	CL STA. 5+68.60 Zoe Lane, OFFSET 3.99 LEFT	374.12(8")	374.02(8")	385.79	HO. CO. STD. G-5.12	
12	48" MH	CL STA. 4+86.05 Zoe Lane, OFFSET 4.15 LEFT	376.23(8")	376.14(8")	387.93	HO. CO. STD. G-5.12	
13	48" MH	CL STA. 6+08.20 Genevieve Boulevard, OFFSET 9.00 LEFT	362.90(8")	362.80(8")	374.12	HO. CO. STD. G-5.12	
14	48" MH	CL STA. 3+87.03 Genevieve Boulevard, OFFSET 8.95 LEFT	367.42(8") 369.80(8")	367.32(8")	379.91	HO. CO. STD. S-1.32	DROP MH TYPE 'A'
15	48" MH	CL STA. 1+29.59 Zoe Lane, OFFSET 0.39 LEFT	372.88(8")	372.78(8")	382.89	HO. CO. STD. G-5.12	
16	48" MH	CL STA. 2+25.78 Zoe Lane, OFFSET 2.91 LEFT	375.01(8")	374.91(8")	384.87	HO. CO. STD. G-5.12	
17	48" MH	CL STA. 3+11.46 Zoe Lane, OFFSET 4.30 LEFT	378.74(8")	378.64(8")	386.68	HO. CO. STD. G-5.12	
18	48" MH	CL STA. 4+41.05 Zoe Lane, OFFSET 7.28 LEFT	377.00(8")	376.90(8")	386.24	HO. CO. STD. G-5.12	
19	48" MH	CL STA. 1+48.71 Genevieve Boulevard, OFFSET 7.85 LEFT	372.46(8")	372.36(8")	386.25	HO. CO. STD. G-5.12	
20	48" MH	CL STA. 0+20.47 Genevieve Boulevard, OFFSET 7.75 LEFT	373.65(8") 373.65(8")	373.55(8")	388.85	HO. CO. STD. G-5.12	
21	48" MH	CL STA. 13+50.00 Declan Road, OFFSET 7.00 RIGHT	375.52(8")	375.42(8")	387.01	HO. CO. STD. G-5.12	
22	48" MH	CL STA. 11+80.46 Declan Road, OFFSET 7.05 RIGHT	374.16(8")	374.06(8")	390.40	HO. CO. STD. G-5.12	
23	48" MH	CL STA. 10+15.08 Declan Road, OFFSET 7.03 RIGHT	374.98(8")	374.88(8")	392.24	HO. CO. STD. G-5.12	
24	48" MH	CL STA. 8+28.19 Declan Road, OFFSET 7.11 RIGHT	376.01(8")	375.91(8")	388.65	HO. CO. STD. G-5.12	
25	48" MH	CL STA. 7+14.84 Declan Road, OFFSET 9.22 RIGHT	376.69(8")	376.59(8")	386.17	HO. CO. STD. G-5.12	
26	48" MH	CL STA. 5+86.05 Berman Road, OFFSET 7.00 RIGHT	377.43(8")	377.33(8")	385.98	HO. CO. STD. G-5.12	
27	48" MH	CL STA. 3+66.83 Berman Road, OFFSET 7.00 RIGHT	383.38(8")	383.28(8")	395.93	HO. CO. STD. G-5.12	
28	48" MH	CL STA. 21+07.92 Aurora Way, OFFSET 6.43 LEFT	374.26(8")	374.16(8")	382.94	HO. CO. STD. G-5.12	
29	48" MH	CL STA. 19+66.14 Aurora Way, OFFSET 5.24 LEFT	376.94(8")	376.84(8")	386.90	HO. CO. STD. G-5.12	
30	48" MH	CL STA. 17+04.15 Aurora Way, OFFSET 9.87 LEFT	382.50(8")	382.40(8")	394.05	HO. CO. STD. G-5.12	
31	48" MH	CL STA. 0+58.31 Berman Road, OFFSET 8.94 RIGHT	383.10(8")	383.00(8")	394.67	HO. CO. STD. G-5.12	
32	48" MH	CL STA. 2+48.39 Berman Road, OFFSET 7.00 RIGHT	385.00(8")	384.90(8")	396.79	HO. CO. STD. G-5.12	
33	48" MH	CL STA. 7+06.80 Cultivator Road, OFFSET 6.00 LEFT	FUTURE 364.42(8")	364.32(8")	380.23	HO. CO. STD. G-5.12	

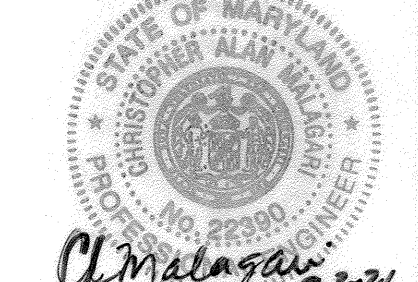


Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No. 22390. Expiration Date: 6-30-2023.

OWNER: ESC WELLINGTON, L.C. 5074 DORSEY HALL DRIVE, SUITE 205 ELLICOTT CITY, MARYLAND 21042 410-720-3021

DEVELOPER: ESC WELLINGTON, L.C. 5074 DORSEY HALL DRIVE, SUITE 205 ELLICOTT CITY, MARYLAND 21042 410-720-3021

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE & SUITE 315 ELLICOTT CITY, MARYLAND 21043 (P) 410-465-8105 (F) 410-465-8644
WWW.BE-CVLENGINEERING.COM



DESIGN: LDD			
DRAFT: LDD			
CHK: DBT			
DATE: 8.30.2021	WRA	AS BUILT	8/8/22
BY NO.		REVISIONS	

PUBLIC WATER AND SEWER PLAN

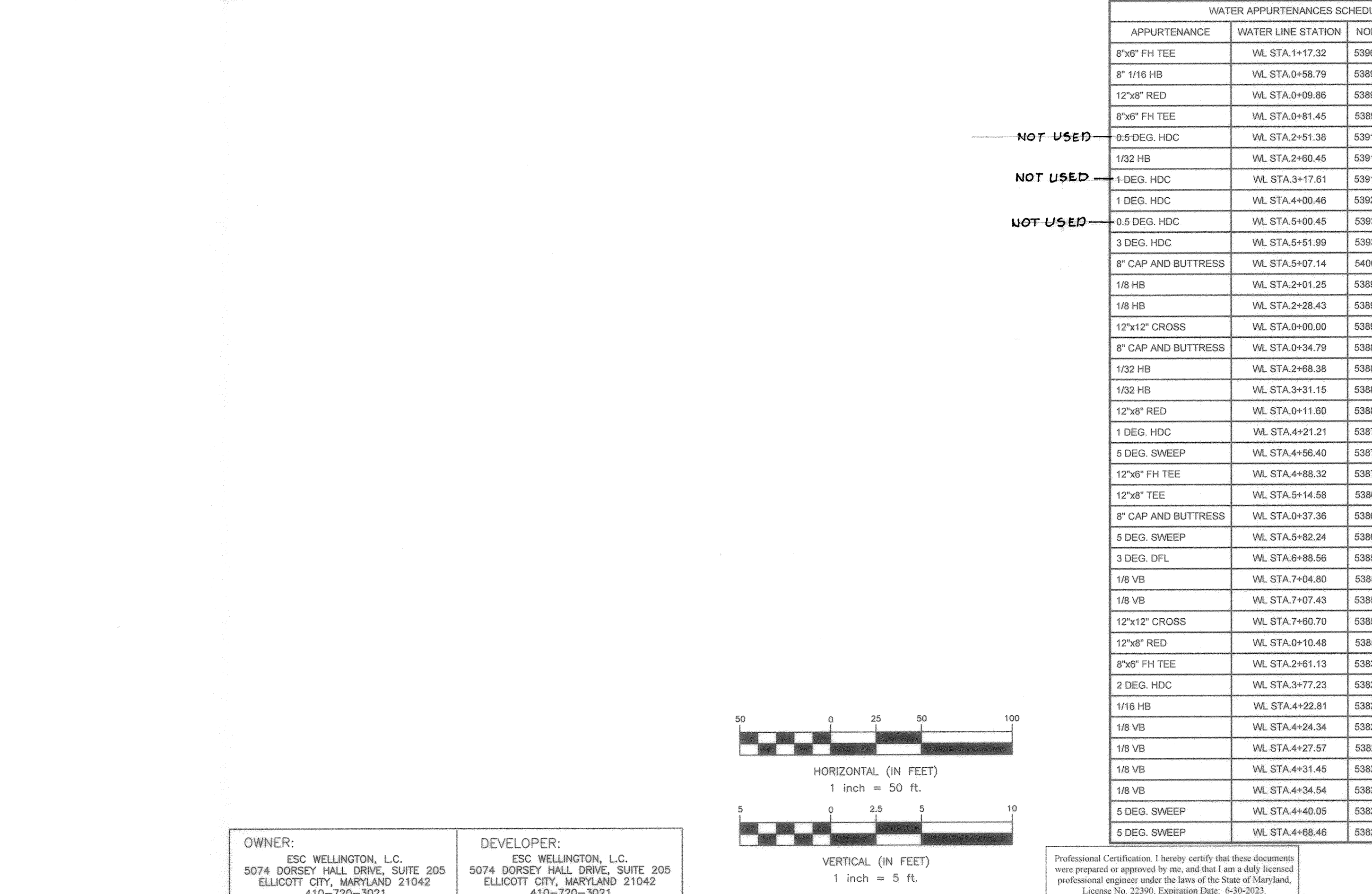
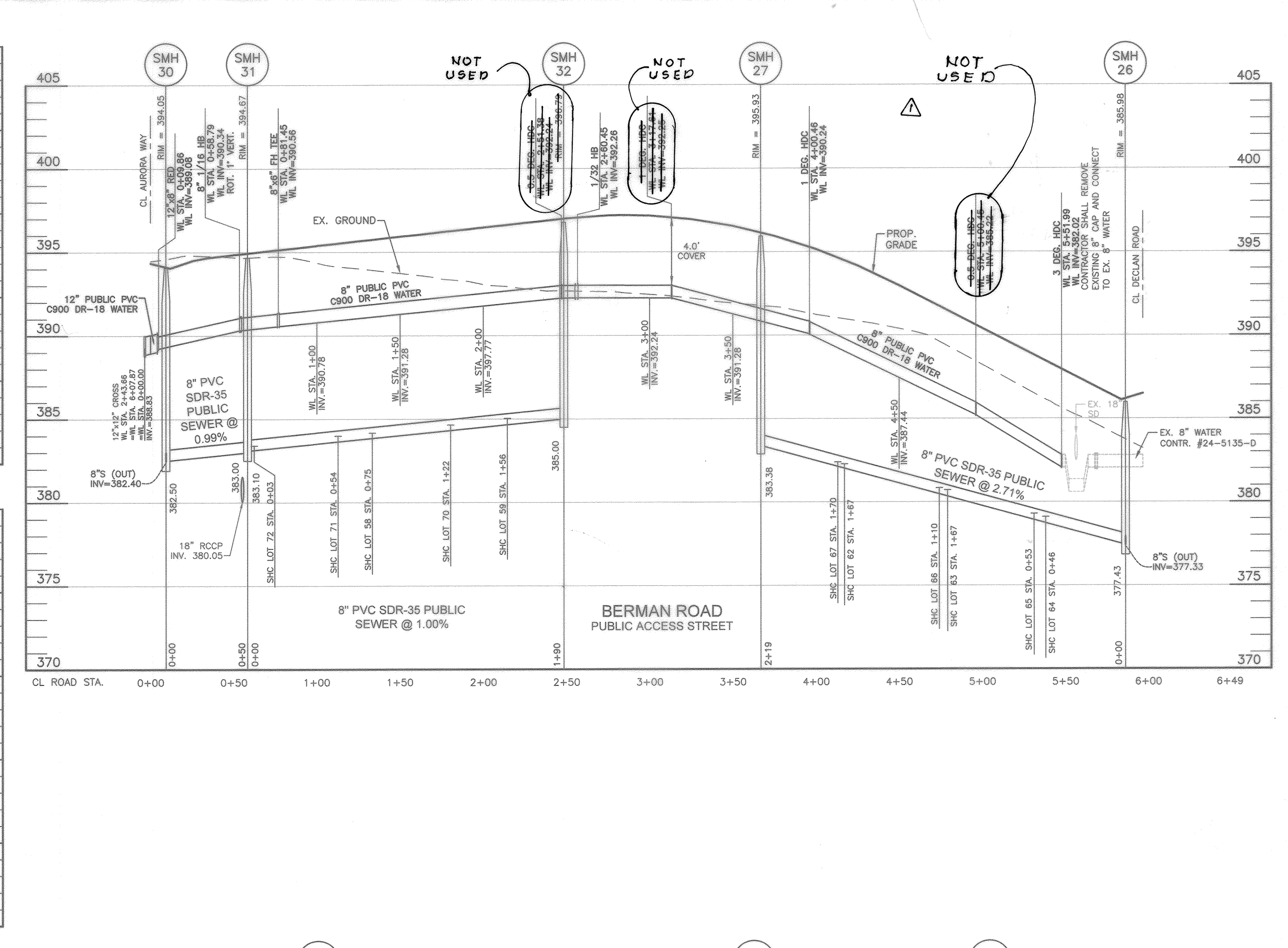
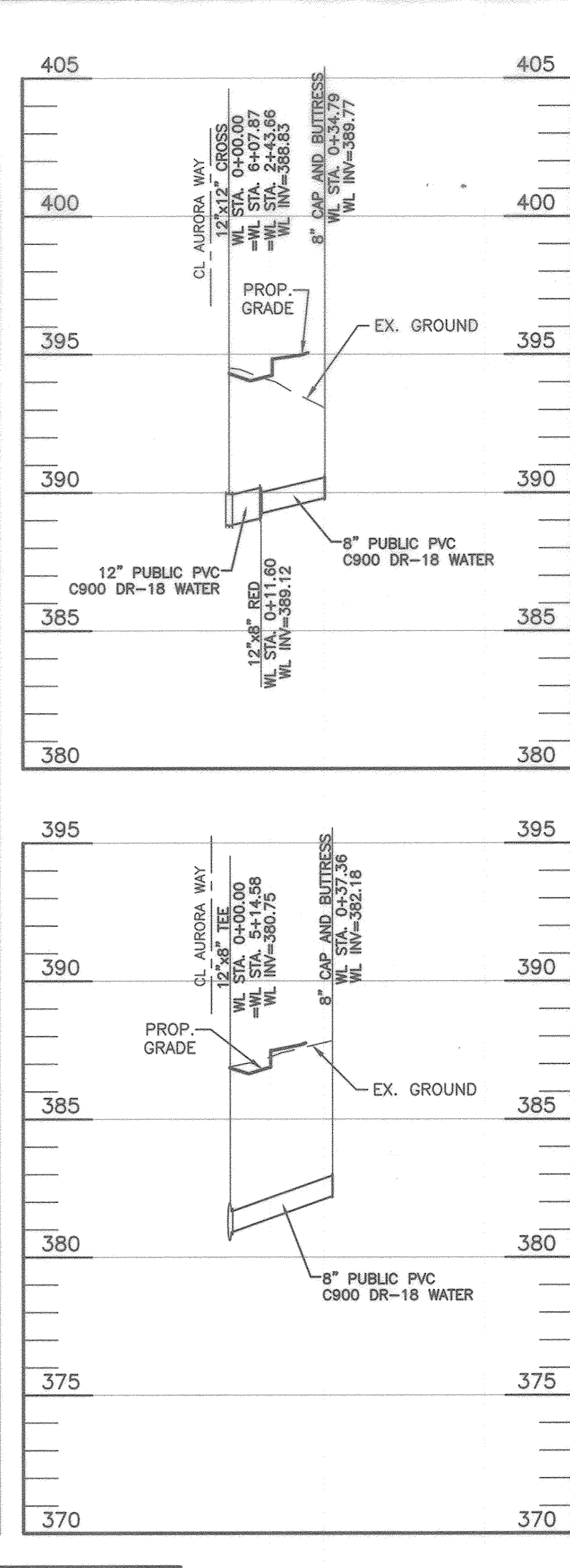
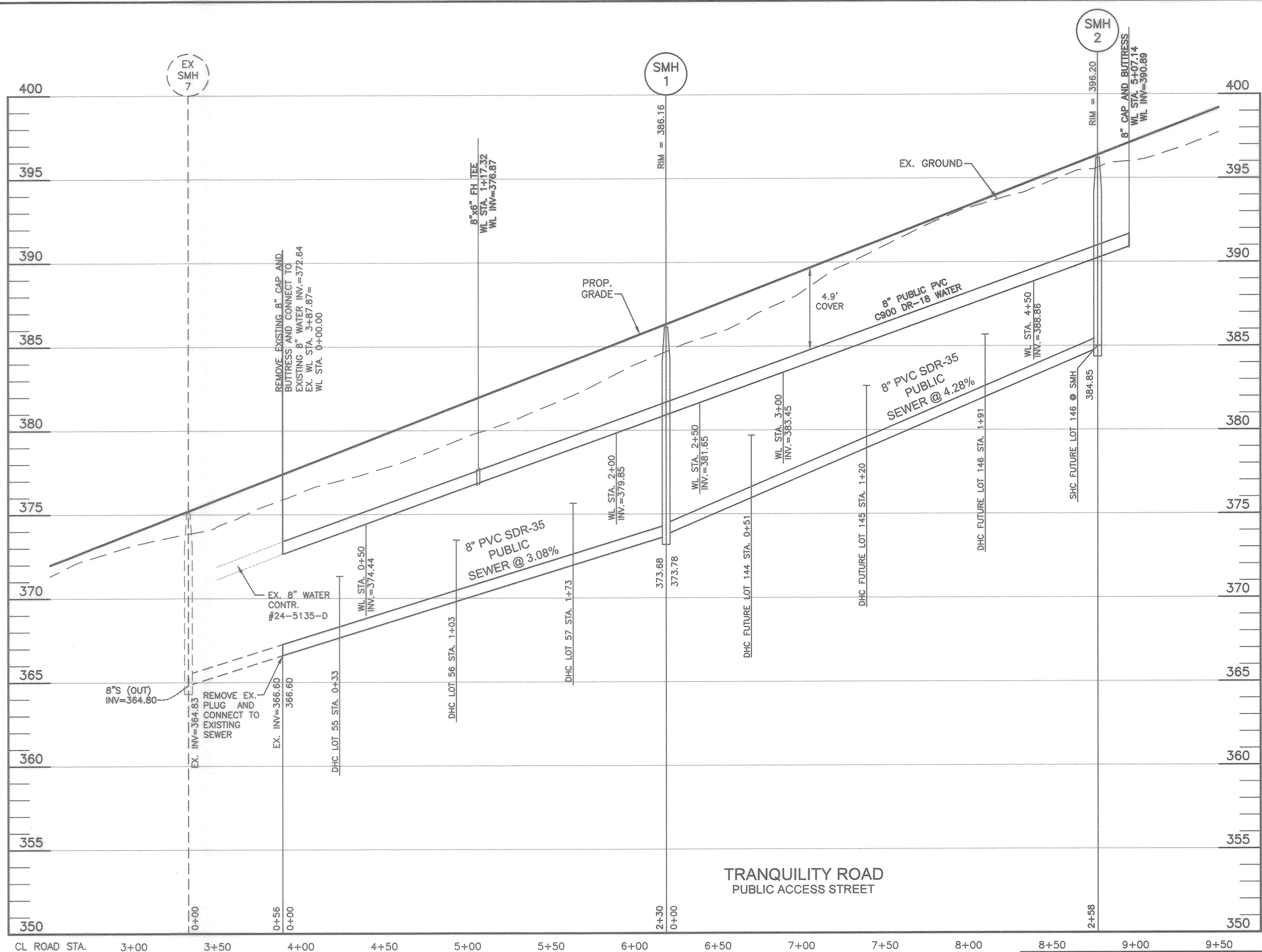
600 SCALE MAP # XX

WELLINGTON FARMS
PHASE 1 SECTION 2
Lots 54 thru 132; Open Space Lots 133 thru 143; Parcel 'A'; Non-Buildable Bulk Parcels 'C', 'D', and 'E'

TAX MAP: 46 - GRID: 6 - PARCEL: 163
ZONED: R-20-MXD-3 / R-SC-MXD-3
ELECTION DISTRICT NO. 6 - HOWARD COUNTY, MARYLAND

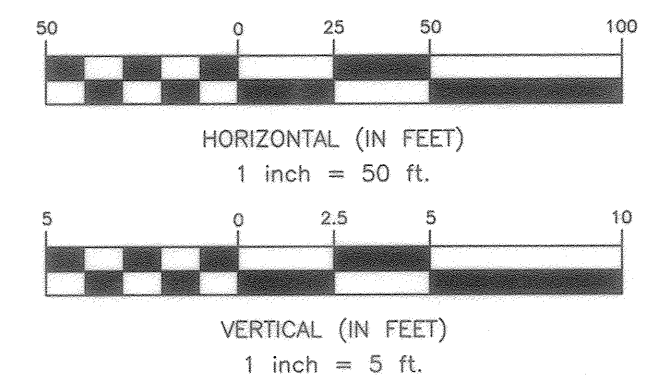
CONTRACT NO. 24-5137-D

SCALE: AS SHOWN
SHEET NO. 5 OF 9



WATER APPURTENANCES SCHEDULE

APPURTENANCE	WATER LINE STATION	NORTHING	EASTING
8"x8" FH TEE	WL STA. 1+17.32	539673.8162	1348800.8651
8" 1/16 HB	WL STA. 0+58.79	538944.2764	1350010.9473
12"x8" RED	WL STA. 0+08.86	538908.3955	1349977.6809
8"x8" FH TEE	WL STA. 0+81.45	538965.7021	1350018.3175
0.5 DEG. HDC	WL STA. 2+51.38	539126.4040	1350073.5514
1/32 HB	WL STA. 2+60.45	539134.9870	1350076.4876
1 DEG. HDC	WL STA. 3+17.61	539185.4954	1350103.2552
1 DEG. HDC	WL STA. 4+00.46	539258.7003	1350142.0415
0.8 DEG. HDC	WL STA. 5+00.45	539346.9911	1350188.9759
3 DEG. HDC	WL STA. 5+51.99	539392.5551	1350213.0728
8" CAP AND BUTTRESS	WL STA. 5+07.14	540037.6821	1348840.7752
1/8 HB	WL STA. 2+01.25	538938.6532	1349961.3936
1/8 HB	WL STA. 2+28.43	538911.5200	1349959.8108
12"x12" CROSS	WL STA. 0+00.00	538901.1656	1349970.6760
8" CAP AND BUTTRESS	WL STA. 0+34.79	538875.6569	1349947.3194
1/32 HB	WL STA. 2+68.38	538884.9880	1349989.6954
1/32 HB	WL STA. 3+31.15	538834.8977	1350027.4857
12"x8" RED	WL STA. 4+11.00	538892.6590	1349963.0871
1 DEG. HDC	WL STA. 4+21.21	538759.9693	1350077.4614
5 DEG. SWEEP	WL STA. 4+56.40	538730.6718	1350096.9600
12"x8" FH TEE	WL STA. 4+88.32	538706.2289	1350117.4907
12"x8" TEE	WL STA. 5+14.58	538686.1371	1350134.4021
8" CAP AND BUTTRESS	WL STA. 0+37.36	538661.8744	1350105.9891
5 DEG. SWEEP	WL STA. 5+82.24	538636.0175	1350178.8498
3 DEG. DFL	WL STA. 6+88.56	538563.5863	1350257.6765
1/8 VB	WL STA. 7+04.80	538563.2221	1350270.1781
1/8 VB	WL STA. 7+07.43	538551.5439	1350272.2023
12"x12" CROSS	WL STA. 7+60.70	538517.5437	1350313.2186
12"x8" RED	WL STA. 0+10.48	538510.8771	1350321.3040
8"x8" FH TEE	WL STA. 2+61.13	538351.4228	1350514.6928
2 DEG. HDC	WL STA. 3+77.23	538277.5999	1350804.2884
1/16 HB	WL STA. 4+22.81	538248.5622	1350638.4404
1/8 VB	WL STA. 4+24.34	538247.2113	1350640.1510
1/8 VB	WL STA. 4+27.57	538244.3511	1350641.6570
1/8 VB	WL STA. 4+31.45	538240.9542	1350643.5310
1/8 VB	WL STA. 4+34.54	538238.2055	1350644.9436
5 DEG. SWEEP	WL STA. 4+40.05	538233.3394	1350647.5321
5 DEG. SWEEP	WL STA. 4+68.46	538207.1562	1350658.5377



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410-720-3021

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5074 DORSEY HALL DRIVE, SUITE 205
ELLCOTT CITY, MARYLAND 21042
410-720-3021

Professional Certification: 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. 22394, Expiration Date: 6-30-2023.

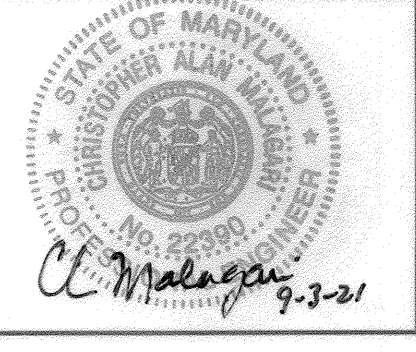
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

9-20-21

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

DATE

BENCHMARK ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE & SUITE 315 A ELLCOTT CITY, MARYLAND 21043
(P) 410-465-8105 (F) 410-465-6644
WWW.BE-CIVLENGINEERING.COM



DESIGN: LDD
DRAFT: LDD
CHK: DBT
DATE: 8.30.2021

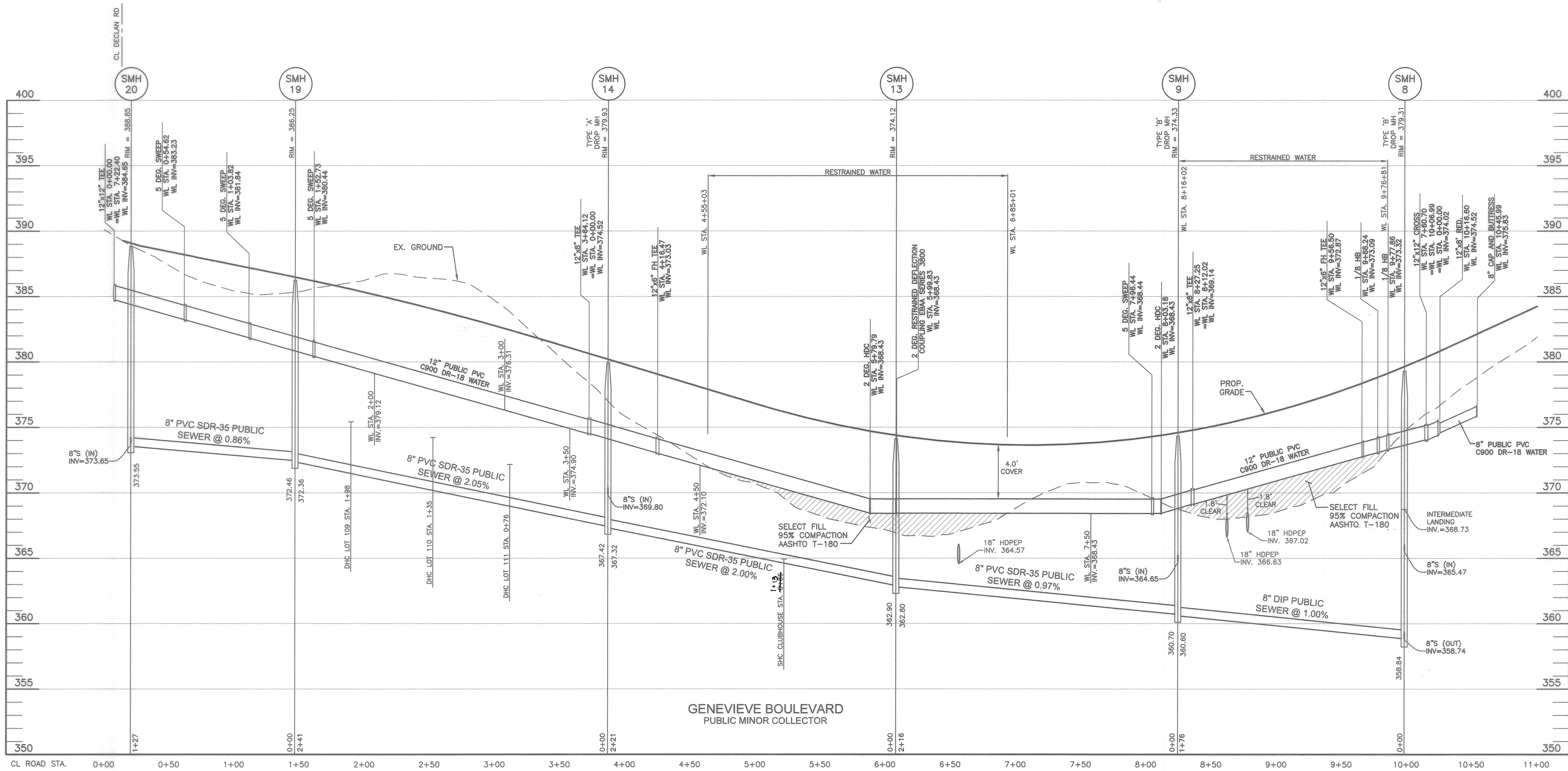
WRA
BY NO. A5 BUILTS
DATE: 8/8/22

PUBLIC WATER AND SEWER PROFILES

600 SCALE MAP # XX

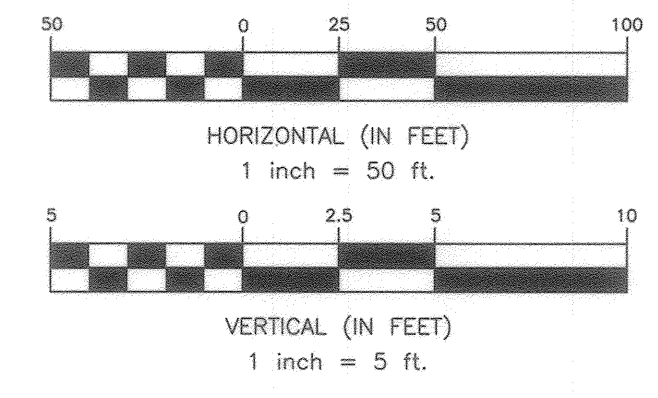
WELLINGTON FARMS PHASE 1 SECTION 2
Lots 54 thru 132; Open Space Lots 133 thru 143; Parcel 'A'; Non-Buildable Bulk Parcels 'C', 'D', and 'E'
TAX MAP: 46 - GRID: 6 - PARCEL: 163
ZONED: R-20-MXD-3 / R-SC-MXD-3
ELECTION DISTRICT NO. 6 - HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-5137-D

SCALE: AS SHOWN
SHEET NO. 6 OF 9



SHC CHART						
Lot Number	Drop House Connection	Invert @ main	DHC standpipe length/height	Invert @ R/W or esmt line	Minimum Cellar Elevation	Basement Floor
54		364.83	0.0	365.17	369.97	370.40
55	YES	367.93	0.0	368.27	372.91	374.27
56	YES	370.08	0.0	370.42	375.06	377.07
57	YES	372.18	0.0	372.52	377.16	379.09
58		384.17	0.0	384.73	389.05	391.21
59		385.04	0.0	385.70	389.76	391.67
60		385.41	0.0	386.05	390.19	392.27
61		384.52	0.0	385.26	389.40	392.67
62		382.27	0.0	382.87	387.03	389.31
63		380.71	0.0	381.31	385.47	387.77
64		379.10	0.0	379.70	383.86	384.67
65		379.30	0.0	379.62	383.66	384.67
66		380.83	0.0	381.15	385.23	387.77
67		382.39	0.0	382.71	386.79	390.31
68		383.52	0.0	384.04	388.18	391.77
69		385.41	0.0	385.77	389.91	392.07
70		384.89	0.0	385.05	389.19	391.47
71		383.99	0.0	384.35	388.35	390.67
72		383.41	0.0	383.71	387.79	390.10
73		376.63	0.0	377.19	381.19	382.82
74	YES	376.11	3.0	376.68	383.69	384.79
75	YES	375.73	3.0	381.31	385.31	386.57
76	YES	375.51	6.0	382.15	386.15	387.20
77	YES	374.97	6.0	381.63	385.63	387.20
78	YES	374.85	6.0	381.31	385.31	386.67
79	YES	374.26	5.0	379.92	384.00	385.59
80	YES	374.59	6.0	380.89	384.89	386.17
81	YES	374.90	6.0	381.20	385.16	386.17
82	YES	375.56	5.0	380.86	384.86	386.17
83	YES	375.80	5.0	381.10	385.10	386.27
84	YES	376.11	3.0	379.45	383.45	384.57
85		376.63	0.0	376.99	381.07	383.05
86		376.74	0.0	377.06	381.14	381.77
87		371.99	0.0	371.87	376.79	376.24
88		372.33	0.0	372.97	377.09	377.33
89		373.35	0.0	373.99	378.11	378.41
90		374.45	0.0	375.09	379.21	379.49
91		375.43	0.0	376.07	380.19	380.53
92		376.23	0.0	376.93	381.15	381.67
93		377.11	0.0	377.76	381.87	382.17
94		377.37	0.0	377.95	382.07	382.84
95		376.07	0.0	376.77	380.89	382.68
96		374.74	0.0	375.38	379.50	381.77
97		373.00	0.0	373.68	377.80	380.17
98		371.46	0.0	372.02	376.14	377.92
99	YES	366.90	0.0	367.46	371.58	375.03
100	YES	366.59	0.0	366.91	371.03	373.65
101		373.00	0.0	373.24	377.36	379.82
102		376.34	0.0	376.56	380.68	382.35
103		376.80	0.0	376.72	380.84	381.42
104		374.29	0.0	374.51	378.55	378.91
105		371.99	0.0	372.29	376.27	376.36
106		375.42	0.0	375.84	380.02	383.48
107		375.86	0.0	376.48	380.46	382.72
108		374.94	0.0	375.56	379.54	382.24
109	YES	371.42	4.0	375.86	380.06	380.50
110	YES	370.23	4.0	374.87	378.89	379.05
111	YES	369.16	3.0	372.80	376.82	377.50
112	YES	368.40	8.0	366.72	370.50	373.34
113	YES	368.18	8.0	366.50	370.28	373.67
114	YES	367.97	8.0	366.29	370.07	373.00
115	YES	367.74	8.0	366.06	369.84	373.33
116	YES	367.52	8.0	365.84	369.62	373.66
117	YES	367.32	8.0	365.64	369.42	373.99
118	YES	367.08	8.0	365.38	369.16	373.32
119	YES	365.52	8.0	363.64	367.42	370.72
120	YES	365.50	8.0	363.82	367.60	371.39
121	YES	365.73	8.0	364.05	367.83	371.39
122	YES	365.95	8.0	364.27	368.05	372.06
123	YES	366.20	8.0	364.52	368.30	372.73
124	YES	366.52	8.0	364.84	368.62	373.69
125	YES	366.77	8.0	365.09	368.87	374.36
126	YES	367.08	8.0	365.35	369.16	375.03
127	YES	367.20	8.0	365.52	369.30	375.70
128	YES	367.41	8.0	365.73	369.51	376.37
129	YES	367.80	8.0	366.12	369.90	377.48
130	YES	368.01	8.0	366.33	370.11	378.15
131	YES	368.24	8.0	366.56	370.34	378.82
132	YES	368.46	8.0	366.78	370.56	379.49
133	YES	368.68	8.0	367.00	370.78	380.16
134	YES	368.90	8.0	367.22	371.00	380.83
135	YES	369.12	8.0	367.44	371.22	381.50
136	YES	369.34	8.0	367.66	371.44	382.17
137	YES	369.56	8.0	367.88	371.66	382.84
138	YES	369.78	8.0	368.10	371.88	383.51
139	YES	369.99	8.0	368.31	372.09	384.18
140	YES	370.21	8.0	368.53	372.31	384.85
141	YES	370.43	8.0	368.75	372.53	385.52
142	YES	370.65	8.0	368.97	372.75	386.19
143	YES	370.87	8.0	369.19	372.97	386.86
144	YES	371.09	8.0	369.41	373.19	387.53
145	YES	371.31	8.0	369.63	373.41	388.20
146	YES	371.53	8.0	369.85	373.63	388.87
147	YES	371.75	8.0	369.97	373.85	389.54

All SHC's are at a 2.0% unless otherwise noted.
 All Drop connections are Ho.Co.Std. S-2.12 Type 'A'

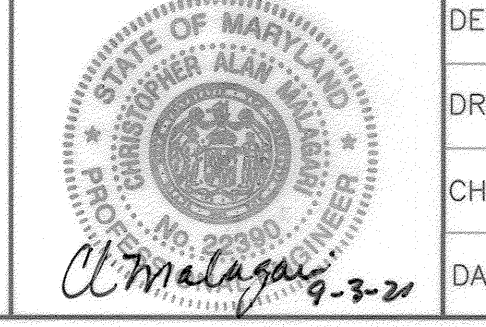


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DESIGN: LDD	
DRAFT: LDD	
CHK: DBT	
DATE: 8.30.2021	
BY: WRA	
NO. AS BUILTS	
REVISIONS	
DATE: 8/8/22	

PUBLIC WATER AND SEWER PROFILES

600 SCALE MAP #xx

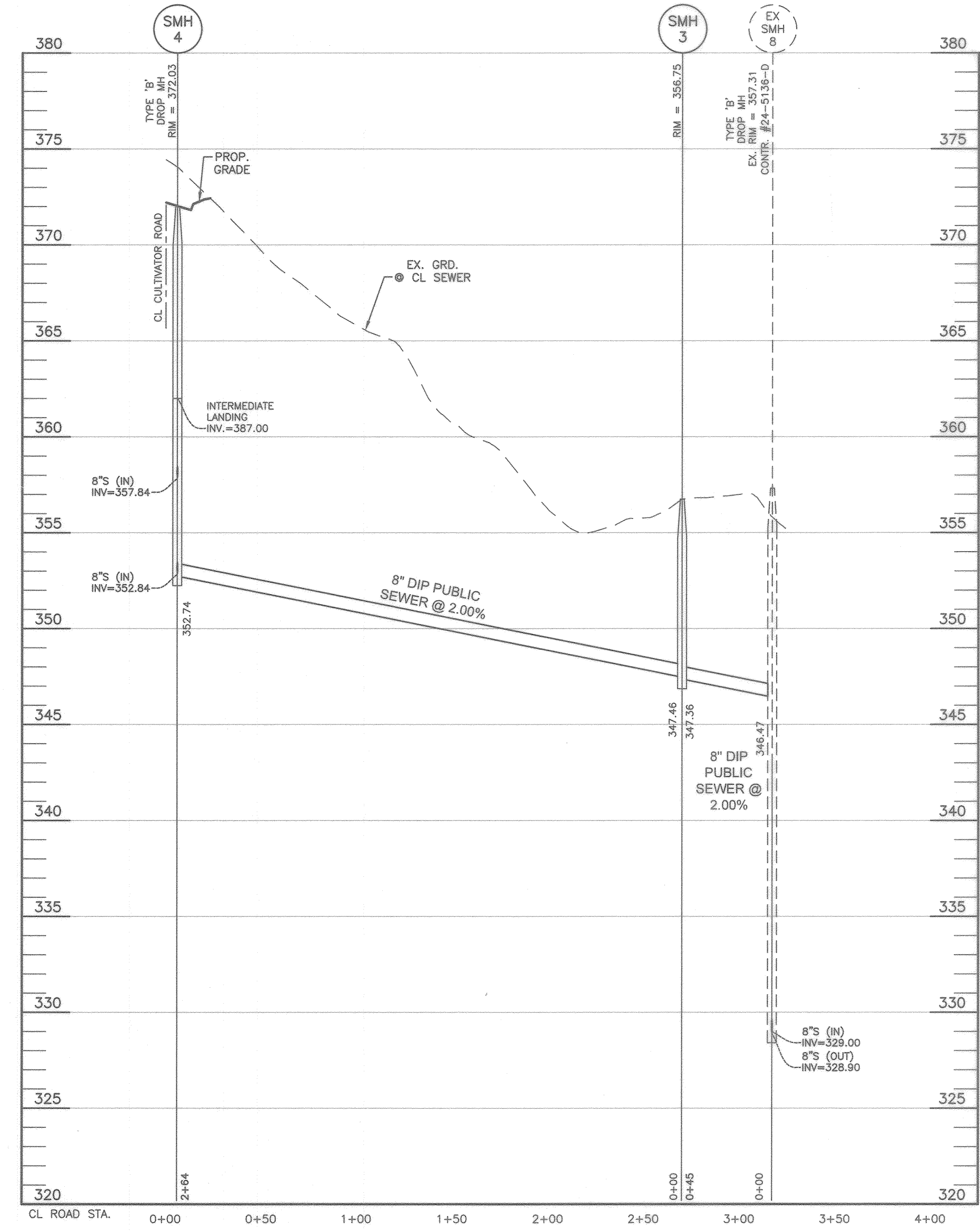
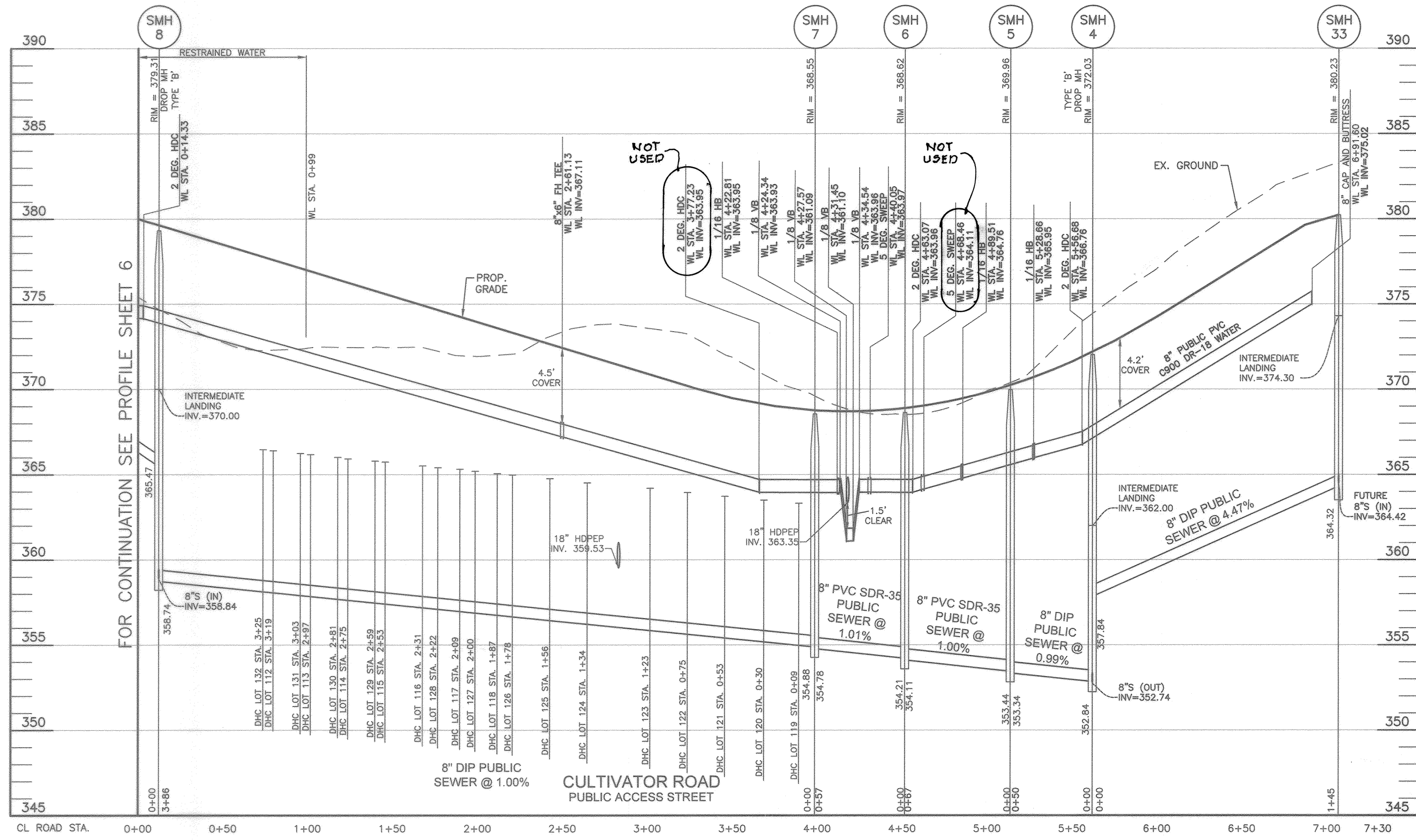
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TAX MAP: 46 - GRID: 6 - PARCEL: 163
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CONTRACT NO. 24-5137-D

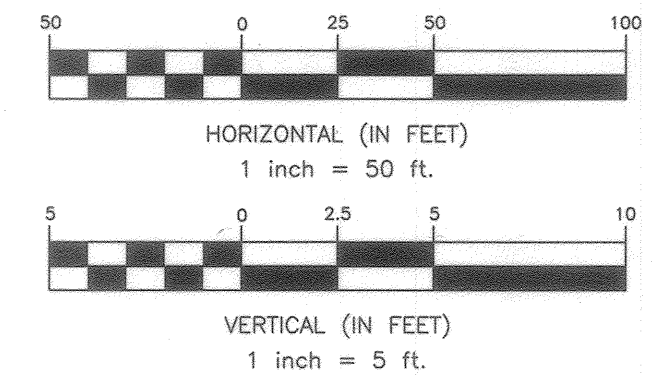
SCALE: AS SHOWN

SHEET NO. 7 OF 9



WATER HOUSE CONNECTION AS-BUILT LOCATION TABLE			
BLDG	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
54	7115 TRANQUILITY ROAD	SMH 6	8' 0" SMH 7 25'
55	7120 TRANQUILITY ROAD	FHV	8' 3" FH 8' 7"
56	7124 TRANQUILITY ROAD	FH	4' 3" FHV 3' 4"
57	7128 TRANQUILITY ROAD	FH	7' 8" SMH 1 4' 9"
58	7225 BERMAN ROAD	FHV	6' 7" FH 6' 3"
59	7221 BERMAN ROAD	SMH 32	4' 9" SMH 27 15' 2"
60	7212 BERMAN ROAD	SMH 32	3' 6" SMH 27 10' 5"
61	7213 BERMAN ROAD	SMH 32	10' 2" SMH 27 3' 7"
62	7209 BERMAN ROAD	SMH 27	5' 2" FHV 14' 8"
63	7205 BERMAN ROAD	SMH 27	10' 5" FHV 10' 5"
64	7201 BERMAN ROAD	FHV	4' 4" FH 4' 1"
65	7200 BERMAN ROAD	FHV	6' 0" FH 5' 1"
66	7204 BERMAN ROAD	FHV	6' 1" FH 6' 5"
67	7208 BERMAN ROAD	SMH 27	4' 2" SMH 32 15' 2"
68	7212 BERMAN ROAD	SMH 32	9' 8" SMH 27 2' 4"
69	7216 BERMAN ROAD	SMH 32	3' 2" SMH 27 9' 8"
70	7220 BERMAN ROAD	FH	1' 0" SMH 32 5' 8"
71	7224 BERMAN ROAD	FHV	5' 6" FH 6' 0"
72	7228 BERMAN ROAD	FHV	3' 6" FH 4' 3"
73	7224 BERMAN ROAD	SMH 24	5' 1" SMH 25 8' 0"
74	7427 DECLAN ROAD	FHV	5' 2" SMH 24 4' 0"
75	7435 DECLAN ROAD	FHV	2' 5" FH 1' 6"
76	7436 DECLAN ROAD	SMH 33	4' 5" FHV 8' 5"
77	7443 DECLAN ROAD	SMH 22	11' 7" SMH 23 4' 7"
78	7447 DECLAN ROAD	FH	8' 1" SMH 22 6' 1"
79	7451 DECLAN ROAD	FH	2' 1" SMH 22 3' 2"
80	7446 DECLAN ROAD	FH	0' 9" SMH 22 3' 4"
81	7442 DECLAN ROAD	SMH 22	10' 3" SMH 23 4' 7"
82	7438 DECLAN ROAD	SMH 25	3' 9" FHV 8' 4"
83	7434 DECLAN ROAD	FHV	3' 6" FH 4' 7"
84	7430 DECLAN ROAD	FHV	6' 6" SMH 24 2' 4"
85	7426 DECLAN ROAD	SMH 24	5' 2" SMH 25 7' 0"
86	7422 DECLAN ROAD	SMH 24	7' 9" SMH 25 2' 4"
87	7553 ZOE LANE	SMH 15	7' 1" 8" VALVE 6' 3"
88	7549 ZOE LANE	SMH 15	2' 9" 8" VALVE 11' 6"
89	7545 ZOE LANE	SMH 16	6' 8" SMH 15 4' 8"
90	7541 ZOE LANE	SMH 16	2' 9" SMH 16 9' 0"
91	7537 ZOE LANE	SMH 17	5' 5" SMH 16 5' 0"
92	7533 ZOE LANE	SMH 17	2' 8" SMH 16 9' 2"
93	7529 ZOE LANE	SMH 17	7' 5" SMH 16 7' 1"
94	7521 ZOE LANE	SMH 18	3' 5" FH 2' 0"
95	7517 ZOE LANE	SMH 12	3' 0" FH 3' 5"
96	7513 ZOE LANE	SMH 11	5' 1" SMH 12 8' 0"
97	7509 ZOE LANE	SMH 10	8' 4" SMH 11 3' 3"
98	7505 ZOE LANE	SMH 10	4' 2" SMH 11 7' 0"
99	7501 ZOE LANE	8" VALVE	10' 6" SMH 10 3' 6"
100	7500 ZOE LANE	8" VALVE	8' 7" SMH 10 5' 2"
101	7508 ZOE LANE	SMH 10	7' 5" SMH 11 2' 9"
102	7510 ZOE LANE	SMH 12	3' 0" SMH 18 3' 2"
103	7528 ZOE LANE	SMH 17	3' 0" SMH 16 10' 1"
104	7536 ZOE LANE	SMH 16	3' 1" SMH 15 8' 0"
105	7548 ZOE LANE	SMH 15	3' 9" 8" VALVE 7' 3"
106	7459 DECLAN ROAD	SMH 21	9' 5" SMH 20 10' 2"
107	7463 DECLAN ROAD	SMH 21	4' 7" INLET 5' 0" 4' 5"
108	7458 DECLAN ROAD	SMH 21	3' 7" SMH 20 8' 3"
109	7600 GENEVIEVE BOULEVARD	SMH 15	5' 0" SMH 20 1' 6"
110	7604 GENEVIEVE BOULEVARD	SMH 14	1' 2" 8" VALVE 14' 1"
111	7608 GENEVIEVE BOULEVARD	SMH 14	7' 1" 8" VALVE 8' 4"
112	7701 CULTIVATOR ROAD	SMH 6	8' 4" 12" VALVE 10' 8"
113	7703 CULTIVATOR ROAD	TWIN	
114	7706 CULTIVATOR ROAD	FH	11' 2" SMH 5 12' 6"
115	7707 CULTIVATOR ROAD	TWIN	
116	7708 CULTIVATOR ROAD	FHV	7' 6" FH 7' 1"
117	7711 CULTIVATOR ROAD	TWIN	
118	7713 CULTIVATOR ROAD	FHV	4' 1" FH 5' 0"
119	7730 CULTIVATOR ROAD	SMH 6	5' 4" SMH 7 3' 1"
120	7728 CULTIVATOR ROAD	SMH 6	9' 9" SMH 7 5' 0"
121	7728 CULTIVATOR ROAD	TWIN	
122	7724 CULTIVATOR ROAD	SMH 7	9' 0" FHV 6' 7"
123	7722 CULTIVATOR ROAD	TWIN	
124	7718 CULTIVATOR ROAD	FHV	3' 2" FH 4' 9"
125	7716 CULTIVATOR ROAD	FHV	2' 6" FH 3' 5"
126	7714 CULTIVATOR ROAD	TWIN	
127	7712 CULTIVATOR ROAD	FHV	6' 4" FH 7' 5"
128	7710 CULTIVATOR ROAD	TWIN	
129	7708 CULTIVATOR ROAD	FHV	11' 9" FH 12' 5"
130	7704 CULTIVATOR ROAD	TWIN	
131	7702 CULTIVATOR ROAD	SMH 6	12' 0" 10' 0" 9' 8"
132	7700 CULTIVATOR ROAD	TWIN	
	CLUBHOUSE	FHV	3' 8" FH 5' 1"

WATER APPURTENANCES SCHEDULE			
APPURTENANCE	WATER LINE STATION	NORTHING	EASTING
1/16 HB	WL STA. 4+89.51	538186.4430	1350662.3353
1/16 HB	WL STA. 5+28.66	538147.6214	1350657.3273
2 DEG. HDC	WL STA. 5+56.68	538123.3189	1350643.3838
8" CAP AND BUTTRISS	WL STA. 6+80.83	538006.2974	1350576.2264
2 DEG. HDC	WL STA. 0+14.33	538508.4289	1350324.2732
8" x 6" FH TEE	WL STA. 2+61.13	538351.4228	1350514.6928
2 DEG. HDC	WL STA. 3+77.23	538277.5999	1350604.2984
1/16 HB	WL STA. 4+22.81	538248.5622	1350639.4404
1/8 VB	WL STA. 4+24.34	538247.2113	1350640.1510
1/8 VB	WL STA. 4+27.57	538244.3511	1350641.6570
1/8 VB	WL STA. 4+31.45	538240.9542	1350643.5310
1/8 VB	WL STA. 4+34.54	538238.2055	1350644.9436
5 DEG. SWEEP	WL STA. 4+40.05	538233.3394	1350647.5321
2 DEG. HDC	WL STA. 4+63.07	538212.1174	1350656.4429
5 DEG. SWEEP	WL STA. 4+68.46	538207.1562	1350658.5377

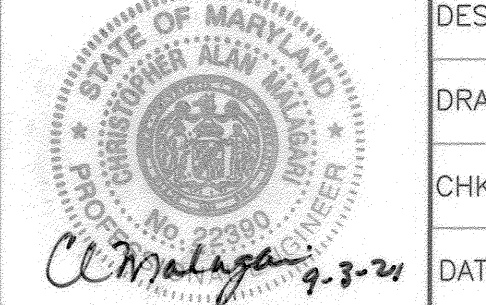


OWNER: ESC WELLINGTON, L.C.
5074 DORSEY HALL DRIVE, SUITE 205
ELICOTT CITY, MARYLAND 21042
410-720-3021

DEVELOPER: ESC WELLINGTON, L.C.
5074 DORSEY HALL DRIVE, SUITE 205
ELICOTT CITY, MARYLAND 21042
410-720-3021

Professional Certification. 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. 22390, Expiration Date: 6-30-2023.

BENCHMARK
ENGINEERS & LAND SURVEYORS & PLANNERS
ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE & SUITE 315 A ELLICOTT CITY, MARYLAND 21043
(P) 410-465-6105 (F) 410-465-6844
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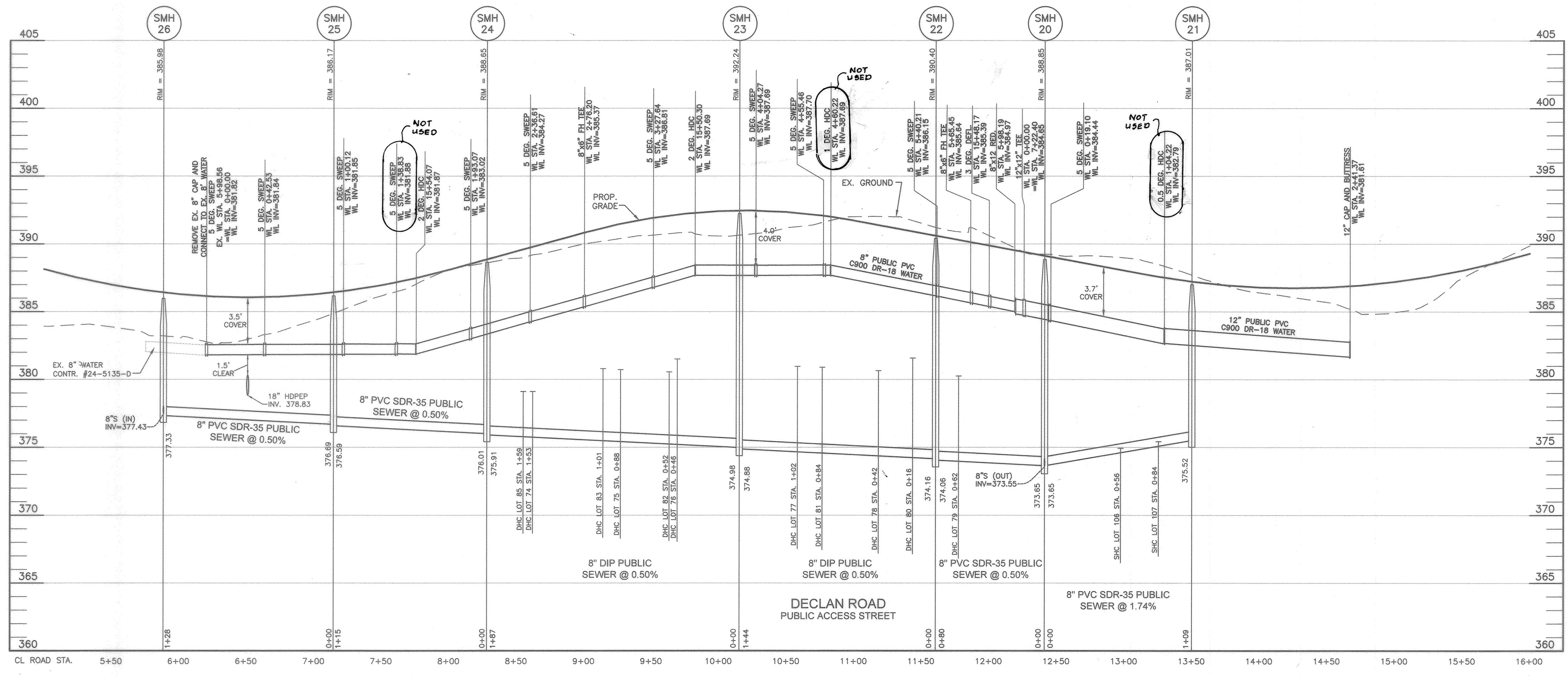


DESIGN: LDD	
DRAFT: LDD	
CHK: DBT	
DATE: 8.30.2021	
BY: WRA	
NO. 1	
AS BUILT	
DATE: 8/10/22	
REVISIONS	
600 SCALE MAP # XX	
BLOCK: ---	

PUBLIC WATER AND SEWER PROFILES

WELLINGTON FARMS
PHASE 1 SECTION 2
Lots 54 thru 132; Open Space Lots 133 thru 143; Parcel 'A'; Non-Buildable Bulk Parcels 'C', 'D', and 'E'
TAX MAP: 46 - GRID: 6 - PARCEL: 163
ZONED: R-20-MXD-3 / R-SC-MXD-3
ELECTION DISTRICT NO. 6 - HOWARD COUNTY, MARYLAND
CONTRACT NO. 24-5137-D

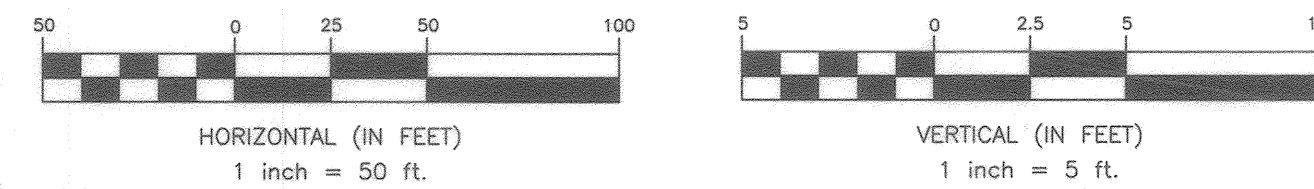
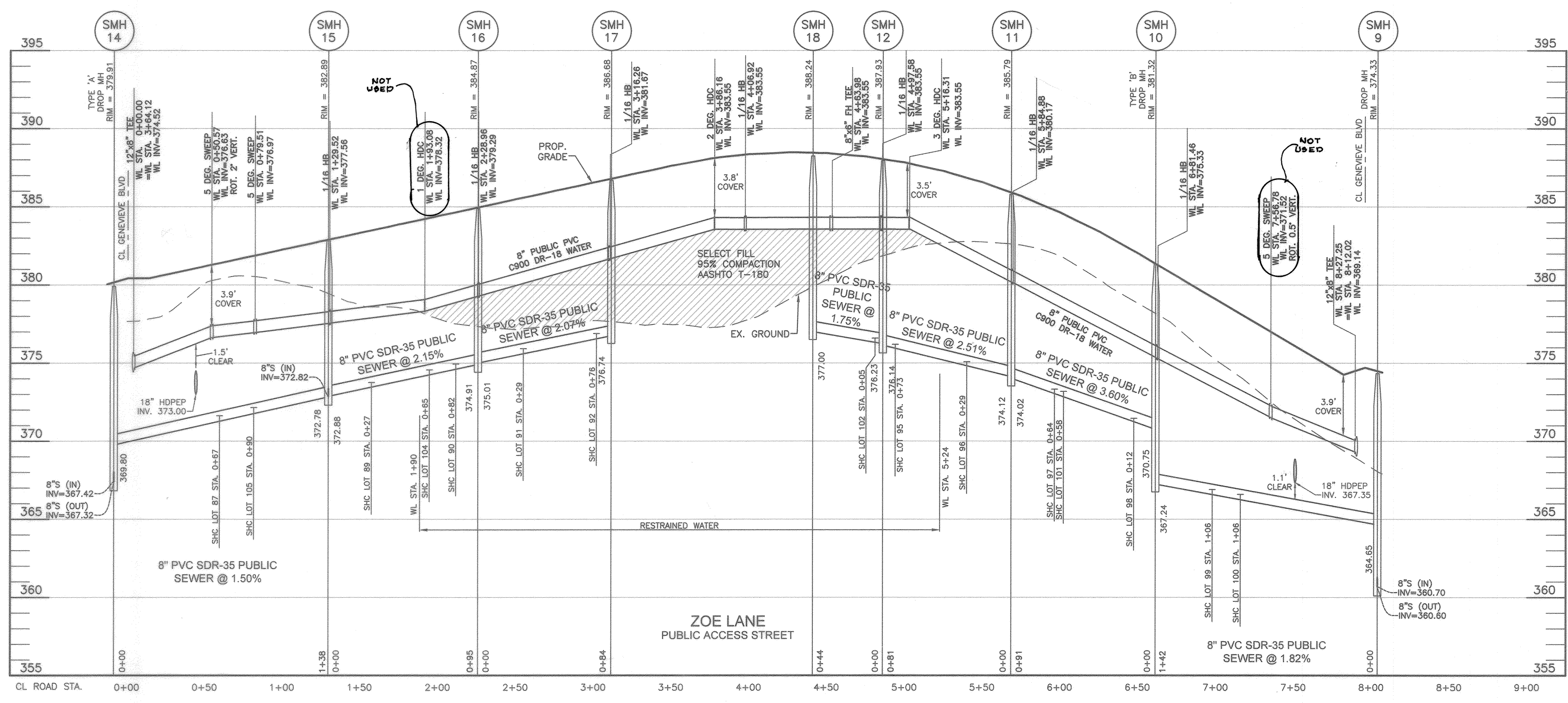
SCALE: AS SHOWN
SHEET NO. 8 OF 9



WATER APPURTENANCES SCHEDULE			
APPURTENANCE	WATER LINE STATION	NORTHING	EASTING
5 DEG. SWEEP	WL STA.0+00.00	539422.1461	1350279.7124
5 DEG. SWEEP	WL STA.0+42.53	539407.1394	1350319.9047
5 DEG. SWEEP	WL STA.1+00.12	539391.5911	1350374.9578
5 DEG. SWEEP	WL STA.1+38.83	539384.4292	1350412.9961
5 DEG. SWEEP	WL STA.1+93.07	539379.0770	1350466.9728
5 DEG. SWEEP	WL STA.2+36.61	539378.5756	1350510.5129
8"Ø FH TEE	WL STA.2+76.20	539381.5731	1350549.9922
5 DEG. SWEEP	WL STA.3+27.84	539385.4716	1350601.2809
2 DEG. HDC	WL STA.15+50.30	539385.0872	1350632.5231
5 DEG. SWEEP	WL STA.4+04.27	539384.5727	1350677.9013
5 DEG. SWEEP	WL STA.4+55.46	539379.5211	1350728.8468
1 DEG. HDC	WL STA.4+60.22	539378.6124	1350733.5236
5 DEG. SWEEP	WL STA.5+40.21	539363.8403	1350812.1316
8"Ø FH TEE	WL STA.5+65.45	539357.0260	1350836.4349
3 DEG. DEFL.	WL STA.15+48.17	539353.3462	1350849.5590
8"x12 RED.	WL STA.5+88.19	539347.2615	1350867.6722
12" CAP AND BUTTRESS	WL STA.2+41.37	539256.2458	1351088.3780
0.5 DEG. HDC	WL STA.1+04.22	539307.3176	1350971.0858
5 DEG. SWEEP	WL STA.0+19.10	539339.0471	1350882.0977
12"x12" TEE	WL STA.0+00.00	539345.1363	1350873.9886
2 DEG. HDC	WL STA.15+54.07	539383.0413	1350427.1583

WATER APPURTENANCES SCHEDULE			
APPURTENANCE	WATER LINE STATION	NORTHING	EASTING
12"x8" TEE	WL STA.3+64.12	539031.0006	1350693.7289
5 DEG. SWEEP	WL STA.0+50.57	539059.4993	1350651.9543
5 DEG. SWEEP	WL STA.0+79.51	539073.6678	1350626.7150
8" 1/16 HB	WL STA.1+29.52	539094.2518	1350581.1439
1 DEG. HDC	WL STA.1+93.08	539094.8775	1350517.5903
8" 1/16 HB	WL STA.2+28.96	539095.2240	1350481.7053
8" 1/16 HB	WL STA.3+16.26	539062.6032	1350400.7288
2 DEG. HDC	WL STA.3+86.16	539013.6535	1350350.8335
8" 1/16 HB	WL STA.4+05.92	539099.1219	1350336.0026
8"Ø FH TEE	WL STA.4+63.98	539046.6234	1350313.6631
8" 1/16 HB	WL STA.4+97.58	539015.7106	1350300.4943
3 DEG. HDC	WL STA.5+19.17	539084.1218	1350300.2839
8" 1/16 HB	WL STA.5+84.88	539028.4147	1350289.6436
8" 1/16 HB	WL STA.6+81.46	539038.8257	1350335.7340
5 DEG. SWEEP	WL STA.7+56.78	539085.0516	1350368.4702

SEWER HOUSE CONNECTION AS-BUILT LOCATION TABLE			
BLDG	ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
54	7112 TRANQUILITY ROAD	SMH 7 2'1"	SMH 6 63'
55	7120 TRANQUILITY ROAD	FHV 9'1"	FH 95'
56	7124 TRANQUILITY ROAD	FHV 3'7"	FH 46'
57	7128 TRANQUILITY ROAD	FH 7'0"	SMH 1 60'
58	7228 BERMAN ROAD	FHV 5'7"	FH 51'
59	7231 BERMAN ROAD	SMH 32 5'1"	SMH 21 161'
60	7217 BERMAN ROAD	SMH 32 3'1"	SMH 27 115'
61	7213 BERMAN ROAD	SMH 32 1'11"	SMH 27 33'
62	7209 BERMAN ROAD	SMH 27 6'0"	FHV 153'
63	7205 BERMAN ROAD	SMH 27 1'15"	FHV 72'
64	7201 BERMAN ROAD	FHV 3'7"	FH 34'
65	7200 BERMAN ROAD	FHV 5'2"	FH 59'
66	7204 BERMAN ROAD	SMH 27 9'7"	FHV 104'
67	7208 BERMAN ROAD	SMH 27 5'1"	FHV 161'
68	7212 BERMAN ROAD	SMH 27 10'6"	SMH 27 30'
69	7216 BERMAN ROAD	SMH 27 2'4"	SMH 27 104'
70	7220 BERMAN ROAD	FH 1'0"	SMH 32 69'
71	7224 BERMAN ROAD	FHV 4'3"	FH 55'
72	7228 BERMAN ROAD	FHV 5'4"	FH 44'
73	7427 DECLAN ROAD	SMH 24 3'2"	SMH 25 70'
74	7427 DECLAN ROAD	FHV 4'3"	SMH 24 47'
75	7429 DECLAN ROAD	FHV 3'5"	FH 27'
76	7433 DECLAN ROAD	SMH 23 5'5"	FH 70'
77	7443 DECLAN ROAD	SMH 22 10'6"	SMH 23 57'
78	7447 DECLAN ROAD	FH 7'2"	SMH 22 54'
79	7451 DECLAN ROAD	FH 1'3"	SMH 22 56'
80	7448 DECLAN ROAD	FH 6'2"	SMH 22 27'
81	7453 DECLAN ROAD	SMH 22 8'8"	SMH 23 65'
82	7459 DECLAN ROAD	SMH 23 5'4"	FHV 70'
83	7454 DECLAN ROAD	FHV 3'7"	FH 47'
84	7450 DECLAN ROAD	FHV 5'1"	SMH 24 39'
85	7429 DECLAN ROAD	SMH 24 4'3"	SMH 25 81'
86	7422 DECLAN ROAD	SMH 24 8'8"	SMH 25 34'
87	7655 ZOE LANE	SMH 15 8'0"	FHV 59'
88	7549 ZOE LANE	SMH 15 3'5"	FHV 107'
89	7545 ZOE LANE	SMH 16 7'0"	SMH 15 39'
90	7541 ZOE LANE	SMH 16 3'2"	SMH 15 88'
91	7537 ZOE LANE	SMH 17 6'4"	SMH 16 43'
92	7533 ZOE LANE	SMH 17 3'2"	SMH 16 89'
93	7529 ZOE LANE	FHV 10'7"	SMH 17 62'
94	7521 ZOE LANE	SMH 18 3'4"	FH 171'
95	7517 ZOE LANE	SMH 12 1'0"	SMH 16 62'
96	7513 ZOE LANE	SMH 11 4'2"	SMH 12 58'
97	7509 ZOE LANE	SMH 10 7'6"	SMH 11 40'
98	7505 ZOE LANE	SMH 10 3'2"	SMH 11 89'
99	7501 ZOE LANE	FHV 5'5"	SMH 10 42'
100	7500 ZOE LANE	FHV 7'6"	SMH 10 57'
101	7500 ZOE LANE	SMH 10 6'4"	SMH 11 96'
102	7518 ZOE LANE	SMH 12 2'5"	SMH 16 42'
103	7528 ZOE LANE	SMH 17 2'5"	SMH 16 89'
104	7538 ZOE LANE	SMH 16 3'7"	SMH 15 59'
105	7548 ZOE LANE	SMH 15 4'9"	FHV 82'
106	7458 DECLAN ROAD	SMH 21 4'3"	SMH 20 70'
107	7493 DECLAN ROAD	SMH 21 3'6"	INLET 64'
108	7458 DECLAN ROAD	SMH 21 5'4"	SMH 20 61'
109	7600 GENEVIEVE BOULEVARD	SMH 19 3'5"	SMH 20 148'
110	7604 GENEVIEVE BOULEVARD	SMH 14 1'9"	FHV 206 127'
111	7608 GENEVIEVE BOULEVARD	SMH 14 7'7"	FHV 208 79'
112	7701 CULTIVATOR ROAD	SMH 3 7'0"	12'x12' 10'-4 3/4 76'
113	7703 CULTIVATOR ROAD	SMH 6 9'1"	12'x12' 10'-0 3/4 115'
114	7705 CULTIVATOR ROAD	FH 1'0"	SMH 8 113'
115	7707 CULTIVATOR ROAD	FHV 1'0"	FH 99'
116	7709 CULTIVATOR ROAD	FHV 8'1"	FH 81'
117	7711 CULTIVATOR ROAD	FHV 6'8"	FH 60'
118	7713 CULTIVATOR ROAD	FHV 5'0"	FH 40'
119	7730 CULTIVATOR ROAD	SMH 6 6'7"	SMH 7 25'
120	7728 CULTIVATOR ROAD	SMH 6 8'6"	SMH 7 44'
121	7726 CULTIVATOR ROAD	SMH 7 6'5"	FHV 98'
122	774 CULTIVATOR ROAD	SMH 7 5'5"	FHV 80'
123	7722 CULTIVATOR ROAD	SMH 7 10'2"	FHV 55'
124	7718 CULTIVATOR ROAD	SMH 3 2'6"	FH 46'
125	7716 CULTIVATOR ROAD	FHV 2'3"	FH 45'
126	7714 CULTIVATOR ROAD	FHV 3'7"	FH 52'
127	7712 CULTIVATOR ROAD	FHV 5'4"	FH 60'
128	7710 CULTIVATOR ROAD	FHV 7'5"	FH 86'
129	7708 CULTIVATOR ROAD	FHV 11'1"	FH 117'
130	7704 CULTIVATOR ROAD	SMH 8 10'9"	12'x12' 10'-0 3/4 128'
131	7702 CULTIVATOR ROAD	SMH 8 8'8"	12'x12' 10'-0 3/4 106'
132	7700 CULTIVATOR ROAD	SMH 8 6'7"	12'x12' 10'-0 3/4 84'
CLUBHOUSE			
		FHV 6'1"	FH 70'



OWNER: ESC WELLINGTON, L.C.
5074 DORSEY HALL DRIVE, SUITE 205
ELLCOTT CITY, MARYLAND 21042
410-720-3021

DEVELOPER: ESC WELLINGTON, L.C.
5074 DORSEY HALL DRIVE, SUITE 205
ELLCOTT CITY, MARYLAND 21042
410-720-3021

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

DATE: 7-20-21

BENCHMARK ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE # SUITE 315 ELLCOTT CITY, MARYLAND 21043
(P) 410-465-8105 (F) 410-465-6644
WWW.BC-ENGINEERING.COM

Professional Certification: 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. 22390, Expiration Date: 6-30-2023.

DATE: 8.30.2021

DESIGN: LDD
DRAFT: LDD
CHK: DBT
DATE: 8/11/22

WRA AS BUILT
BY NO. REVISIONS

DATE: 8/11/22

600 SCALE MAP #xx

PUBLIC WATER AND SEWER PROFILES

SCALE: AS SHOWN

SHEET NO. 9 OF 9

WELLINGTON FARMS
PHASE 1 SECTION 2
Lots 54 thru 132; Open Space Lots 133 thru 143; Parcel 'A'; Non-Buildable Bulk Parcels 'C', 'D', and 'E'
TAX MAP: 46 - GRID: 6 PARCEL: 163
ZONED: R-20-MXD-3 / R-SC-MXD-3
ELECTION DISTRICT NO. 6 - HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-5137-D