

GENERAL NOTES

- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAINS 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 05/15/2021 BY DCI ENGINEERS.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. NAD 83/91 AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS 421B AND 421A. ALL VERTICAL CONTROLS ARE BASED ON NAVD 88. VERTICAL CONTROLS PROVIDED ON DRAWINGS ARE:
421A - N=543390.415 E=1364912.66
421B - N=542368.914 E=1364912.66
- 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 DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (LATEST EDITION). THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- 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 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 (800) 252-1133
BCE (CONTRACTOR SERVICES) (410) 637-8713
BCE (EMERGENCY) (410) 685-0173
BUREAU OF UTILITIES (410) 313-4900
COLONIAL PIPELINE CO. (410) 795-1390
MISS UTILITY (800) 257-7777
STATE HIGHWAY ADMINISTRATION (410) 531-5533
VERIZON (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) 713-7450 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 SHALL BE C900 DR18 PVC 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 TREES.
- ALL FITTINGS SHALL BE BULGED 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 WIRE 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 PRESSURE PIPES 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.
- SPRINKLER SYSTEM FOR SINGLE RESIDENTIAL DWELLING UNITS SHALL HAVE WATER HOUSE CONNECTIONS AND WATER METERS THAT ARE SIZED IN ACCORDANCE WITH THE DESIGN OF THE SPRINKLER SYSTEMS. SPRINKLER SYSTEMS FOR SINGLE RESIDENTIAL DWELLINGS SHALL HAVE A MINIMUM OF 1.5" SERVICE CONNECTION WITH A 1" OUTSIDE METER SETTING.
- 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 17 POUND MAGNESIUM ANODES SHALL BE INSTALLED ON ALL VALVES AND FITTINGS INCLUDING REGIONS AND HARNESS. 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 LINE ON GASKETED PVC PIPE INDICATE THE MAXIMUM AND MINIMUM DEPTH OF THE INSERTION OF THE SPIGOT INTO THE BELL. THE CONTRACTOR SHALL NOT OVER INSERT OR OVER HOME THE SPIGOT INTO THE BELL OF THE 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 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 225 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 CERTAINTEEED PVC HIGH DEFLECTION (HD) STOP COUPLINGS OR EQUAL FIVE DEGREE SWEEPS SHALL BE BELL BY SPIGOT, RATED FOR A MINIMUM 225 PSI, DR 18 MEETING THE REQUIREMENTS OF AWWA C900 AND SHALL BE MULTI FITTINGS (IPX) 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 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 INCORPORATES AN EXPANSION RETENTION SPRING TO ALLOW FOR PIPE EXPANSION AND CONTRACTION. THE BELL STOP SHALL BE SERIES 5000 MEGA-STOP, AS MANUFACTURED BY EBAA IRON, INC. OR APPROVED EQUAL.

PART 3- 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 WATERTIGHT FRAME AND COVER. STANDARD DETAIL G5.52 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 THE CELLAR CANNOT BE SERVED.

NORDAU, SECTION E-2

LOT 9, 11-12

WATER AND SEWER CONSTRUCTION PLAN

CONTRACT NO: 24-5209-D

HOWARD COUNTY, MARYLAND



LOCATION MAP
SCALE: 1"=600'

SHEET INDEX

- COVER SHEET & LOCATION MAP
- LAYOUT PLAN
- SEWER PROFILE
- WATER PROFILE

TYPE OF BUILDING:	RESIDENTIAL
NO. OF LOTS/PARCELS:	2(EX.)+1(FUTURE)
NO. OF SINGLE WATER HOUSE CONNECTIONS:	1(EX.)+2(FUTURE)
NO. OF TWIN WATER HOUSE CONNECTIONS:	0
NO. OF SINGLE SEWER HOUSE CONNECTIONS:	1(EX.)+2(FUTURE)
NO. OF TWIN SEWER HOUSE CONNECTIONS:	0
SEWER SHED:	PATUXENT RIVER
TREATMENT PLANT:	PATUXENT RIVER (MIDDLE)
WATER ZONE:	400
TEST PRESSURE:	185 psi
TEST GRADIENT:	677

DESIGN MANUAL WAIVER DMV2-22-2012

WAIVER REQUEST:
THIS PROJECT IS SUBJECT TO DESIGN MANUAL WAIVER DMV2-22-2012. THIS WAIVER WAS APPROVED BY DEPARTMENT OF PUBLIC WORKS UTILITY DESIGN DIVISION ON FEBRUARY 17, 2023 SUBJECT TO THREE CONDITIONS OUTLINED IN THE APPROVAL LETTER: THIS WAIVER IS REQUIRED BECAUSE THIS PROJECT PROVIDES LESS THAN MINIMUM 10' SETBACKS FROM A STRUCTURE AND THE EDGE OF A PROPOSED PUBLIC UTILITY EASEMENT. THOSE REDUCED SETBACKS INCLUDE AN 8.4-FOOT SETBACK FROM THE EXISTING BUILDING ON LOT 11, A 0.9-FOOT SETBACK FROM THE STORMWATER FACILITY M8-1, A 0.6-FOOT SETBACK FROM STORMWATER FACILITY M8-2 AND A 6.15-FOOT SETBACK FROM THE EXISTING BUILDING ON LOT 9. THE JUSTIFICATION BEING THAT THE WATER LINE SITS WELL INSIDE THE EASEMENT AT TEN (10) FEET FROM THE EDGE AND THAT NONE OF THE STRUCTURES WOULD IMPACT OR PREVENT FUTURE MAINTENANCE EFFORTS ON THE WATER LINE. FURTHERMORE, THE CORNER OF THE BUILDING WITH THE 6.15-FOOT OFFSET IS A GARAGE ON SLAB WITH NO BASEMENT, AND THE SIDE OF THE BUILDING WITH THE 8.4-FOOT OFFSET IS AN EXPOSED BASEMENT WALL WITH THE BASEMENT SLAB HIGHER THAN THE DRIVEWAY BOTH OF WHICH POSE NO POSSIBILITY OF ANY MAINTENANCE EFFORTS OF THE WATERLINE IMPACTING THE FOUNDATION OF THE BUILDINGS.



VICINITY MAP
SCALE: 1"=1000'
ADC MAP PAGE 20, GRID F7

LEGEND:

PROPERTY LINE	---
RIGHT-OF-WAY LINE	----
ADJACENT PROPERTY
EXISTING CURB & GUTTER	=====
EXISTING UTILITY POLE	○
EXISTING LIGHT POLE	⊗
EXISTING MAILBOX	⊗
EXISTING SIGN	⊗
EXISTING SANITARY LINE	---S---
EXISTING SANITARY MANHOLE	⊗
EXISTING STORM DRAIN	---SD---
EXISTING CLEANOUT	⊗
EXISTING FIRE HYDRANT	⊗
EXISTING WATER LINE	---W---
EXISTING TREENLINE	~~~~~
PROPOSED TREENLINE	~~~~~
PROPOSED WATER MAIN	=====
PROPOSED VALVE	⊗
PROPOSED TEE	⊗
STORM DRAIN	=====
SEWER MANHOLE	⊗
PRIVATE WATER HOUSE CONNECTION	---
PRIVATE SEWER HOUSE CONNECTION	---
PROPOSED SEWER	-----

CONTROL POINTS

	NORTHING	EASTING	ELEV.
DCI-200	540527.960	1365037.636	281.86
DCI-201	540852.089	1365684.347	283.36
DCI-203	540897.367	1366058.204	291.04
DCI-204	541049.248	1366079.998	282.99
DCI-205	541149.608	1366218.132	284.27
DCI-206	541260.743	1366292.270	282.83

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
WATER				
8" WATER (PVC900 DR-18)	424 LF			
1.5" WHC	55 LF			
8"X8" TAPPING SLEEVE	1 EA			
8" VALVE	1 EA			
8" 1/16" VERTICAL BEND	2 EA			
1.5" WATER DRAIN	1 EA			
SEWER				
MANHOLE	2 EA			
8" SEWER PVC SDR-35	414 LF			
4" SHC	97 LF			
SANITARY CLEANOUT	2 EA			

NOTE:

ALL WATER HOUSE CONNECTIONS ARE TO BE 1.5" WITH A 1" METER (OUTSIDE SETTING).
ALL SEWER HOUSE CONNECTIONS SHALL BE 4" PVC.

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 308 OF THE SPECIFICATIONS AND WITH FINAL PLAN F-22-064.

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
Alexander Butcher 03/08/23
SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>[Signature]</i> CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>[Signature]</i> CHIEF DEVELOPMENT ENGINEERING DIVISION
DATE: 3-2-23	DATE: 3-13-23

DCI DANIEL CONSULTANTS INC.
CONSULTING ENGINEERS AND PLANNERS
8899 ROUTE 108E, SUITE 229
COLUMBIA, MD 21043
TEL: 410-995-0090 FAX: 410-992-7038

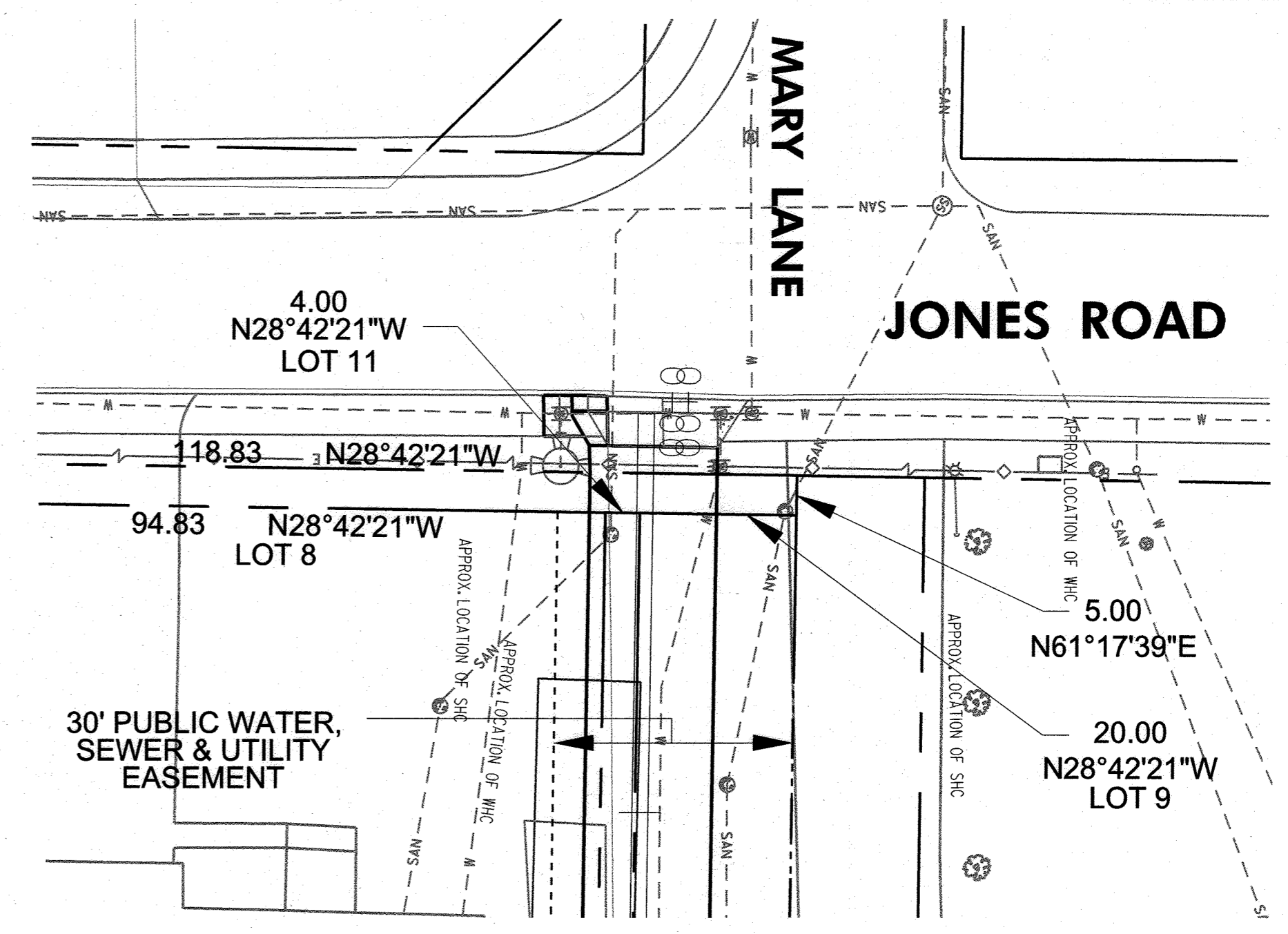
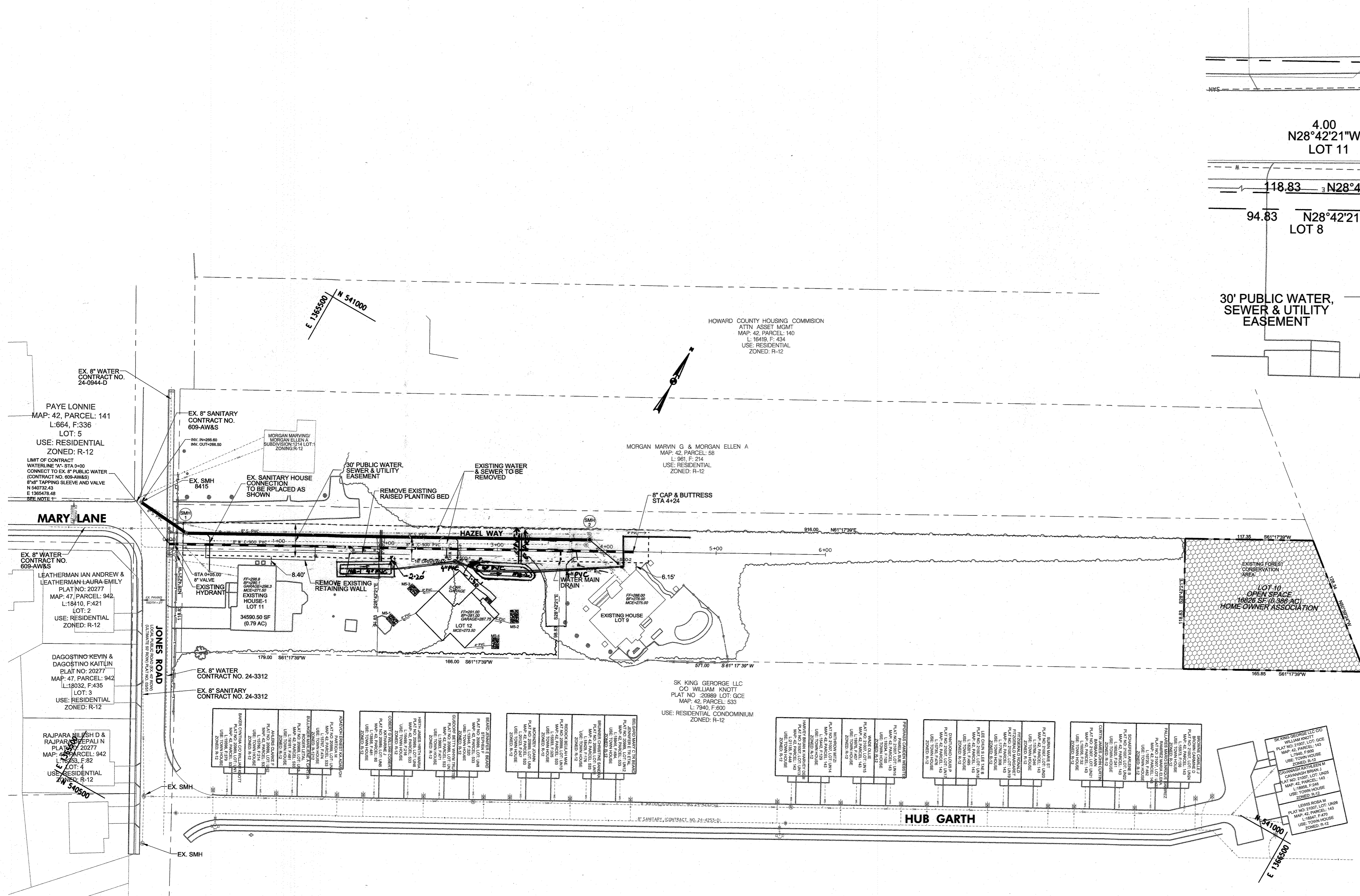
PROFESSIONAL CERTIFICATE
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO. 15222
EXPIRATION DATE: 01-04-2025
DRN: BW DES: BW
CHK: RLS
DATE: 02/22/2023
BY: NO. REVISION DATE

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I 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.
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DATE: 02/22/2023
BY: NO. REVISION DATE

FINAL WATER AND SEWER
FINAL PLAN
COVER SHEET
600' SCALE MAP NO. 35 BLOCK NO. 21 & 16

NORDAU, SECTION E-2
LOT 9, 11 & 12
WATER AND SEWER CONSTRUCTION PLANS
CONTRACT NO. 24-5209-D
TAX MAP 42, GRID 24, PARCEL 124
ZONING R-12
SIXTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

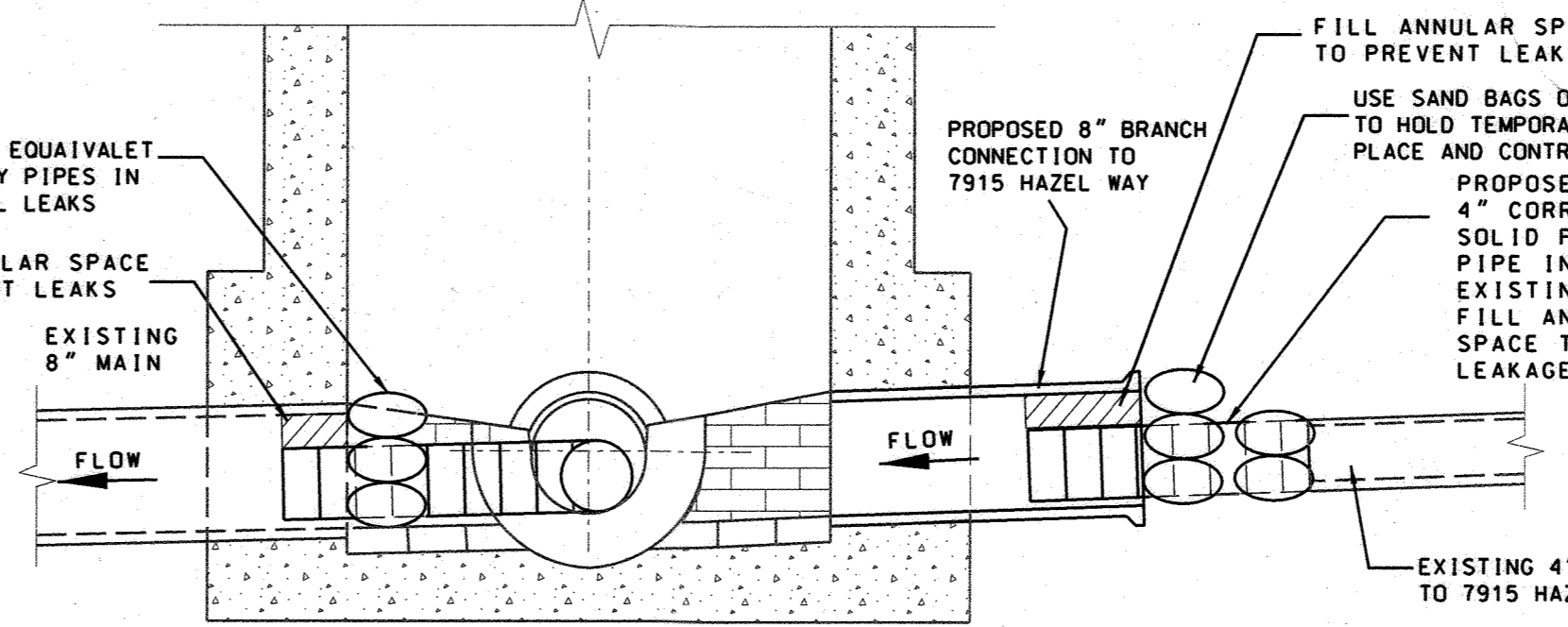
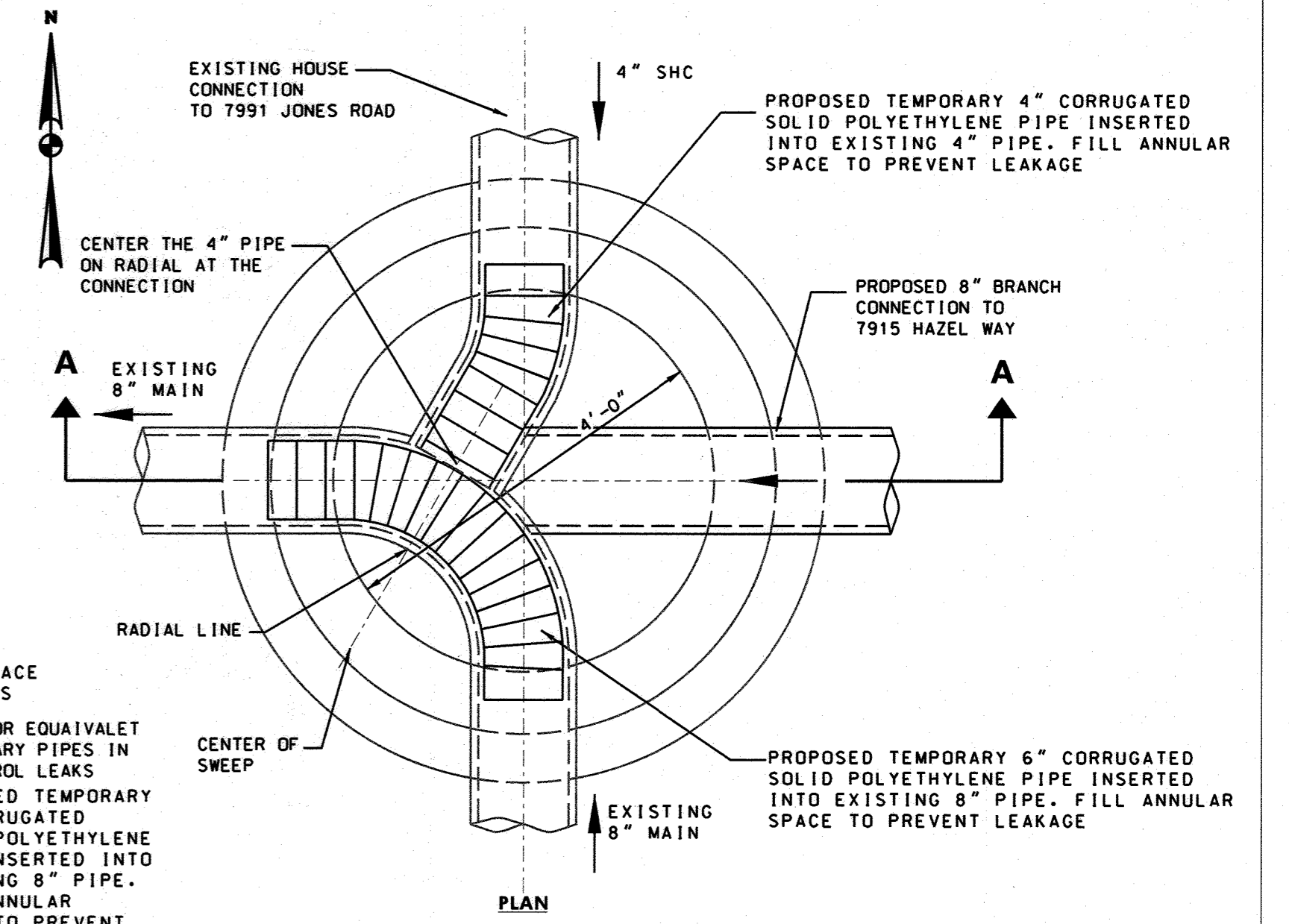
SCALE AS SHOWN
SHEET 01 OF 04



FRONT FOOT INSET
SCALE: 1"=10'

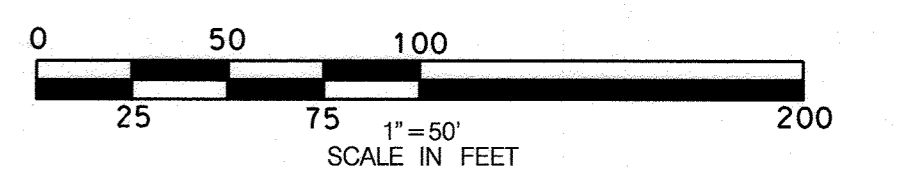
SEQUENCE OF CONSTRUCTION

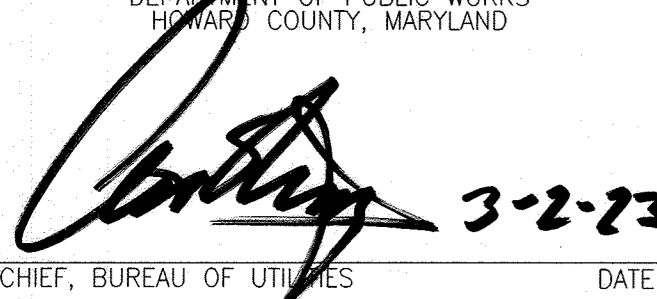



1. NOTIFY THE OWNER OF 7915 HAZEL WAY PRIOR TO ANY INTERRUPTION IN SERVICE AND COORDINATE THE SHUT DOWN PERIOD. THIS PERIOD SHALL NOT EXCEED 8 HOURS.
2. INSTALL FLEXIBLE PLASTIC PIPING AS REQUIRED TO MAINTAIN FLOW THROUGH THE MANHOLE.
3. REPLACE THE 4" SHC TO 7915 HAZEL WAY WITH A NEW 8" BRANCH CONNECTION.
4. REMODEL THE MANHOLE CHANNEL AS REQUIRED.
5. AT THE END OF THE WORK DAY REMOVE THE FLEXIBLE PLASTIC PIPING AND PROVIDE A TEMPORARY CONNECTION BETWEEN THE COMPLETED PORTION 8" BRANCH AND THE EXISTING 4" SHC TO 7915 HAZEL WAY.
6. NOTIFY THE HOMEOWNER AS SOON AS THE SERVICE IS RESTORED. ONCE THE MANHOLE CONNECTION IS DONE, BACKFILL AND CONTINUE TO INSTALL THE 8" BRANCH LINE. TRY TO MINIMIZE THE DISRUPTION OF SEWAGE FLOW FROM 7915 HAZEL WAY DURING THE WORK DAY BY PROVIDING A TEMPORARY CONNECTION AS SHOWN BELOW. AT THE END OF THE WORK DAY ALWAYS RESTORE THE TEMPORARY CONNECTION TO 7915 HAZEL WAY.
7. INSTALL THE REMAINDER OF THE 8" BRANCH LINE. ONLY EXCAVATE AS MUCH OF THE TRENCH AS REQUIRED TO COMPLETE ONE DAY'S WORK. MAINTAIN SERVICE TO 7915 HAZEL WAY USING THE SAME TEMPORARY PIPE CONNECTION DETAIL.

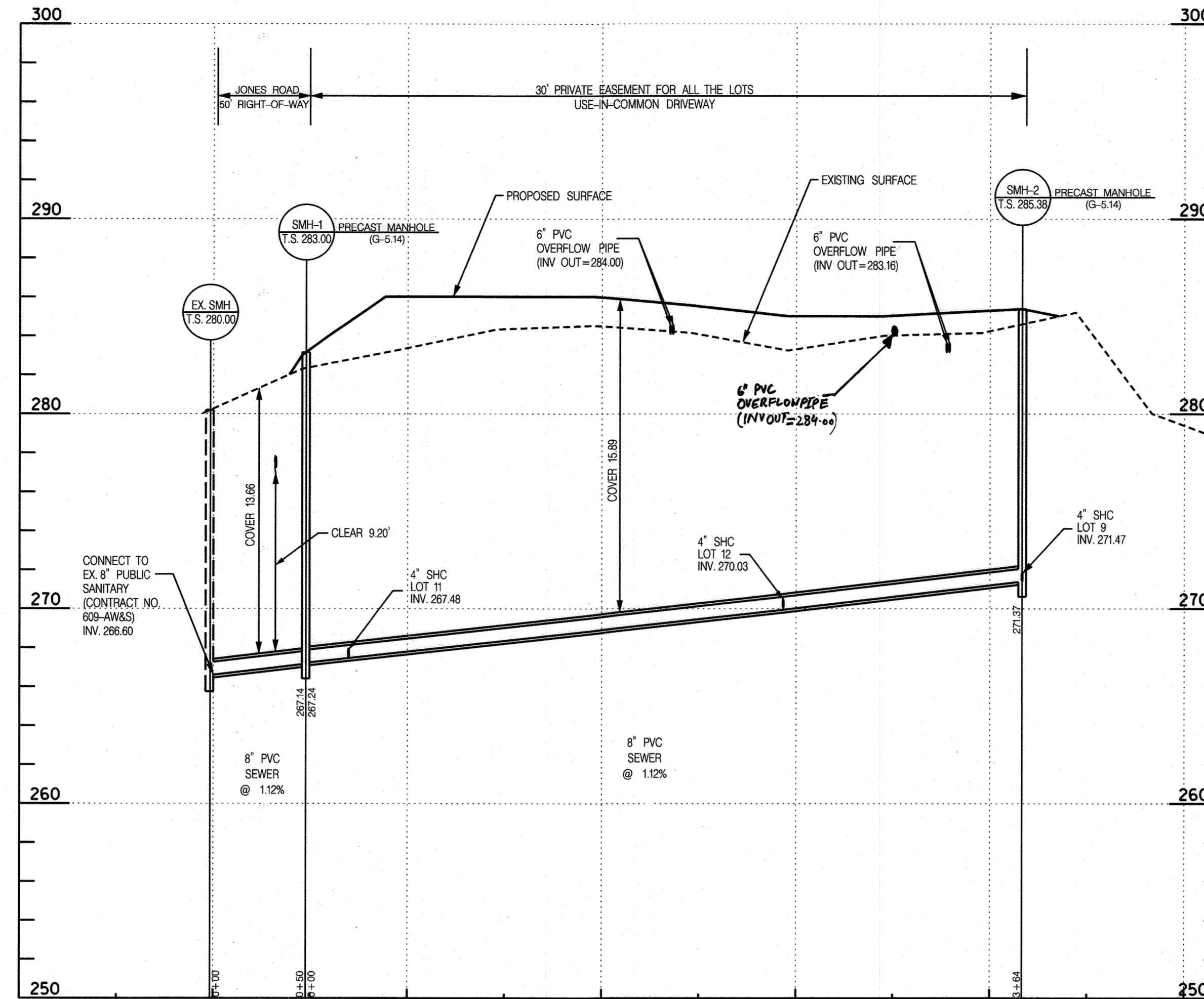


NOTE:
1. CONTRACTOR SHALL TEST PIT EXISTING WATER MAIN (CONTRACT NO. 609-AW&S) TO VERIFY INVERT ELEVATION AT TIE-IN.
2. LOT PIPE STEMS NOT SHOWN FOR CLARITY.

WATER SERVICE CONNECTION NOTES:
ALL WATER CONNECTIONS, NOTED AS 1.5" WHC, SHALL BE 1-1/2" WITH 1" OUTSIDE METER SETTINGS, UNLESS OTHERWISE NOTED. REFER TO HOWARD COUNTY DETAIL W-3.28 OUTSIDE METER SETTINGS.



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  DATE: 3-2-23	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND  DATE: 3-13-22	 DANIEL CONSULTANTS INC. CONSULTING ENGINEERS AND PLANNERS 8560 ROUTE 108 E., SUITE 229 COLUMBIA, MD 21043 TEL: 410-995-0090 FAX: 410-992-7038	 RICHARD L. SOBOTT, PE NO. 15222	PROFESSIONAL CERTIFICATE I 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. 15222 EXPIRATION DATE: 01-04-2025 DRN: EW DES: EW CHK: RLS DATE: 02/22/2023 BY NO. REVISION DATE	RS 1 RELOCATE RETENTION FACILITIES AND WATER MAIN VERTICAL ALIGNMENT FINAL WATER AND SEWER FINAL PLAN LAYOUT PLAN 600' SCALE MAP NO. 35 BLOCK NO. 21 & 16	NORDAU, SECTION E-2 LOT 9, 11 & 12 WATER AND SEWER CONSTRUCTION PLANS CONTRACT NO. 24-5209-D TAX MAP 42, GRID 24, PARCEL 124 ZONING R-12 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE AS SHOWN SHEET 02 OF 04
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SEWER MAIN PROFILE
SCALE: 1"=50' HORIZ.
1"=5' VERT.

SEWER STRUCTURE SCHEDULE

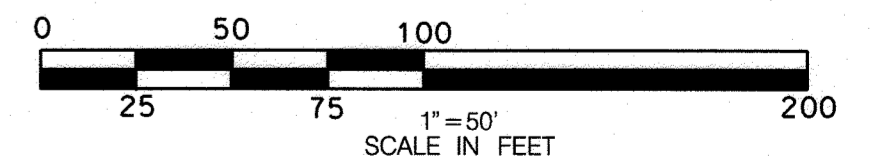
NO.	TYPE	LOCATION	TOP ELEV.	INV. IN	INV. OUT	OWNER
SMH-1	STD. PRECAST MD HO. CO. STD. DET. G-5.12	N 540746.71 E 1365490.14	283.00	267.24	267.14	PUBLIC
SMH-2	STD. PRECAST MD HO. CO. STD. DET. G-5.12	N 540924.01 E 1365813.81	285.38	-	271.37	PUBLIC
SCO-1	STD. CLEANOUT	N 540850.07 E 1365716.70	285.00	-	-	PUBLIC
SCO-2	STD. CLEANOUT	N 540934.14 E 1365836.91	284.90	-	-	PUBLIC

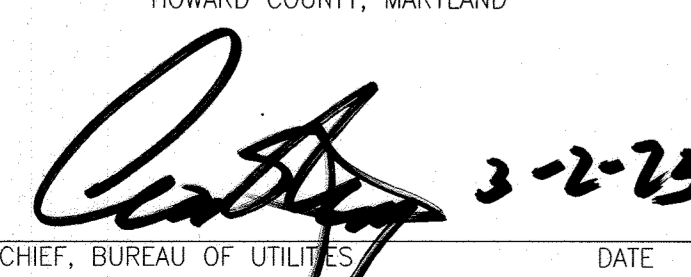
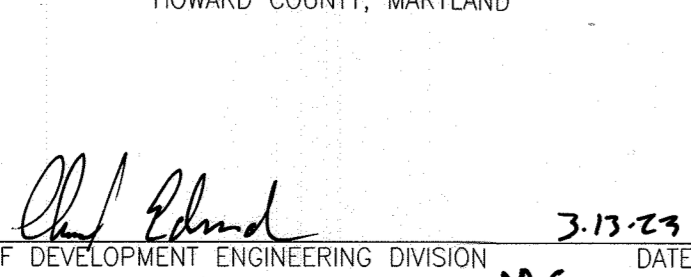
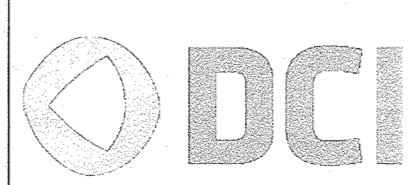
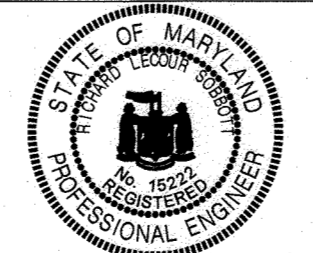
SEWER HOUSE CONNECTION- AS-BUILT LOCATION TABLE

LOT	STREET ADDRESS	LOCATION DIMENSION 1	LOCATION DIMENSION 2
LOT 12	7911 HAZEL WAY, JESSUP MD-20794		
LOT 9	7915 HAZEL WAY, JESSUP MD-20794		
LOT 11	8001 JONES ROAD, JESSUP MD-20794		

SHC CHART

LOT	INVERT @ MAIN OR MANHOLE	DROP HOUSE	INVERT @ R/W OR EASEMENT	FF ELEVATION	MINIMUM CELLAR ELEVATION (MCE)	BF ELEVATION	NOTES
LOT 12	270.03	NO	273.00	291.00	273.50	281.00	SHC @ 2.0 % MIN.
LOT 9	271.47	NO	273.90	288.00	275.00	278.00	SHC @ 2.0 % MIN.
LOT 11	267.48	NO	274.00	298.80	271.50	290.10	SHC @ 2.0 % MIN.



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND  CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND  CHIEF DEVELOPMENT ENGINEERING DIVISION	 DANIEL CONSULTANTS INC. CONSULTING ENGINEERS AND PLANNERS 8550 ROUTE 108 E, SUITE 228 COLUMBIA, MD 21043 TEL: 410-995-0090 FAX: 410-992-7038	 PROFESSIONAL CERTIFICATE 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. 15222 EXPIRATION DATE: 01-04-2025 DRN: BW DES: BW CHK: RLS DATE: 02/22/2023 BY: NO. REVISION DATE	RS 1 RELOCATE BIORETENTION FACILITIES AND WATER MAIN VERTICAL ALIGNMENT	FINAL WATER AND SEWER FINAL PLAN SEWER PROFILE	NORDAU, SECTION E-2 LOT 9, 11 & 12 WATER AND SEWER CONSTRUCTION PLANS CONTRACT NO. 24-5209-D	SCALE AS SHOWN SHEET 03 OF 04 TAX MAP 42, GRID 24, PARCEL 124 ZONING R-12 SIXTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
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