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March 3, 2022

Mrs. Claudia C. Wright
Civil Engineer
Department of Public Works, Utilities Division
County of Stafford
Suite 103
2128 Jefferson Davis Highway
Stafford, VA 22555

**RE: Water Model
Hampstead Development
Tax Map 26 Parcels 45 and 46
Stafford County, Virginia**

Dear Mrs. Wright:

Sullivan, Donahoe, and Ingalls has prepared a Water Model for the Hampstead development. The development has two points of access with the first being located approximately 2000 feet north of the intersection of Poplar Road and Chriswood Lane serving Phases 1, 2, and 3 of the project. The second point of access serving Phase 4 of the project is an extension of the existing Artillery Drive within the Cannon Knoll Subdivision. While there is no vehicular connection between Phase 1/2/3 and Phase 4, the water system will extend from Phase 1/2/3 to Phase 4 to provide water service to those lots. In support of modeling of the water system, this report has been prepared in a manner consistent with our understanding of the County's requirements as stipulated in Section 2.1.1 of the Stafford County Utilities Water and Sewer Design and Construction Standards.

In the following model, the Hazen William's "C" factor of 120 has been used throughout the analysis. Additionally, a Fire Flow Analysis has been provided to demonstrate the output of each site fire hydrant at 20 PSI. The fire flows have been provided in conjunction with the Maximum Day Average Hour demand throughout the development. This is in addition to the Peak Hour demand modeling.

To create an accurate and variable boundary condition for our water model, we utilized the data that was provided and modeled it as a "pump" at the point of connection to the existing system. In this case, we started with the provided "design static" conditions of both provided boundary conditions and entered each of the provided flow rates as data points on the "pump curve" to suit creation of the boundary condition at both connection points so the modeled boundary condition

Mrs. Claudia Wright
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mimics the provided curve data. This relationship is best demonstrated in the enclosed Fire Flow Pump Report.

As discussed previously, this project will be constructed in four phases. The provided analyses include a Fire Flow Results summary for all four phases.

- The lowest modeled fire flow for Phase 1 is at the final hydrant along the main road (H-3) with a total Available Fire Flow of 1,576 GPM.
- The lowest modeled fire flow for Phase 2 is at the end of Road C (H-12) with a total Available Fire Flow of 1,339 GPM.
- The lowest modeled fire flow for Phase 3 is at the end of Main 2 (H-11) with a total Available Fire Flow of 1,203 GPM.
- The lowest modeled fire flow for the full buildout is at the end of the line along the Artillery Drive extension (H-17) with a total Available Fire Flow of 1,005 GPM.

The fire flows in all phases exceed the 1,000 GPM required in developments with Single Family Dwellings that are greater than 30 feet apart. In addition to the Fire Flow Results, a series of Peak Hour Demand results as well as a complete water model demonstrating the hydraulic conditions in the most restrictive fire condition (a 1,005 GPM demand at the end of the line along the Artillery Drive Extension, H-17).

We hope that the included network summaries are clear. If there are any questions or need for any additional information, please don't hesitate to call at 540-870-5618 or e-mail me at koster@sdii.com.

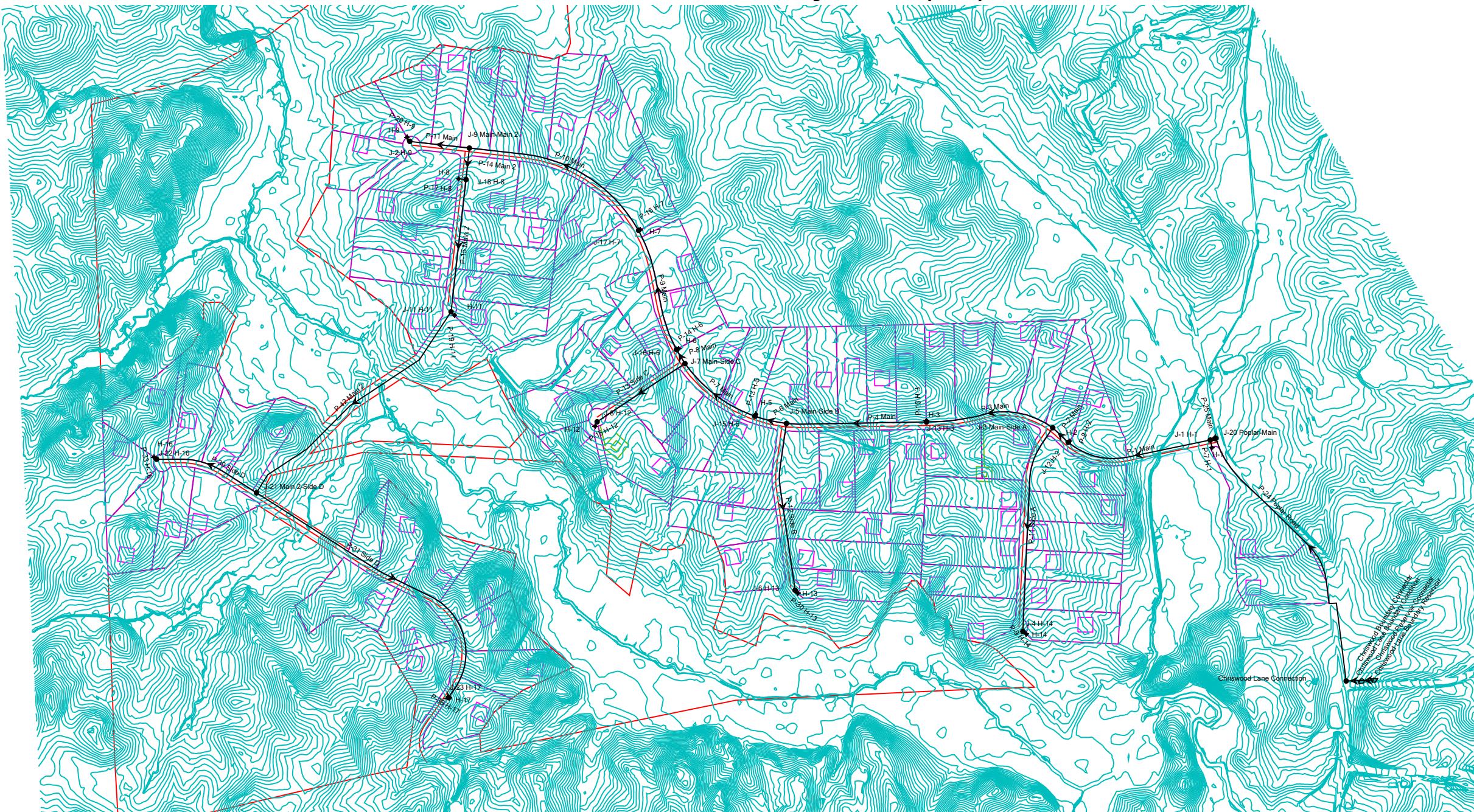
Sincerely,

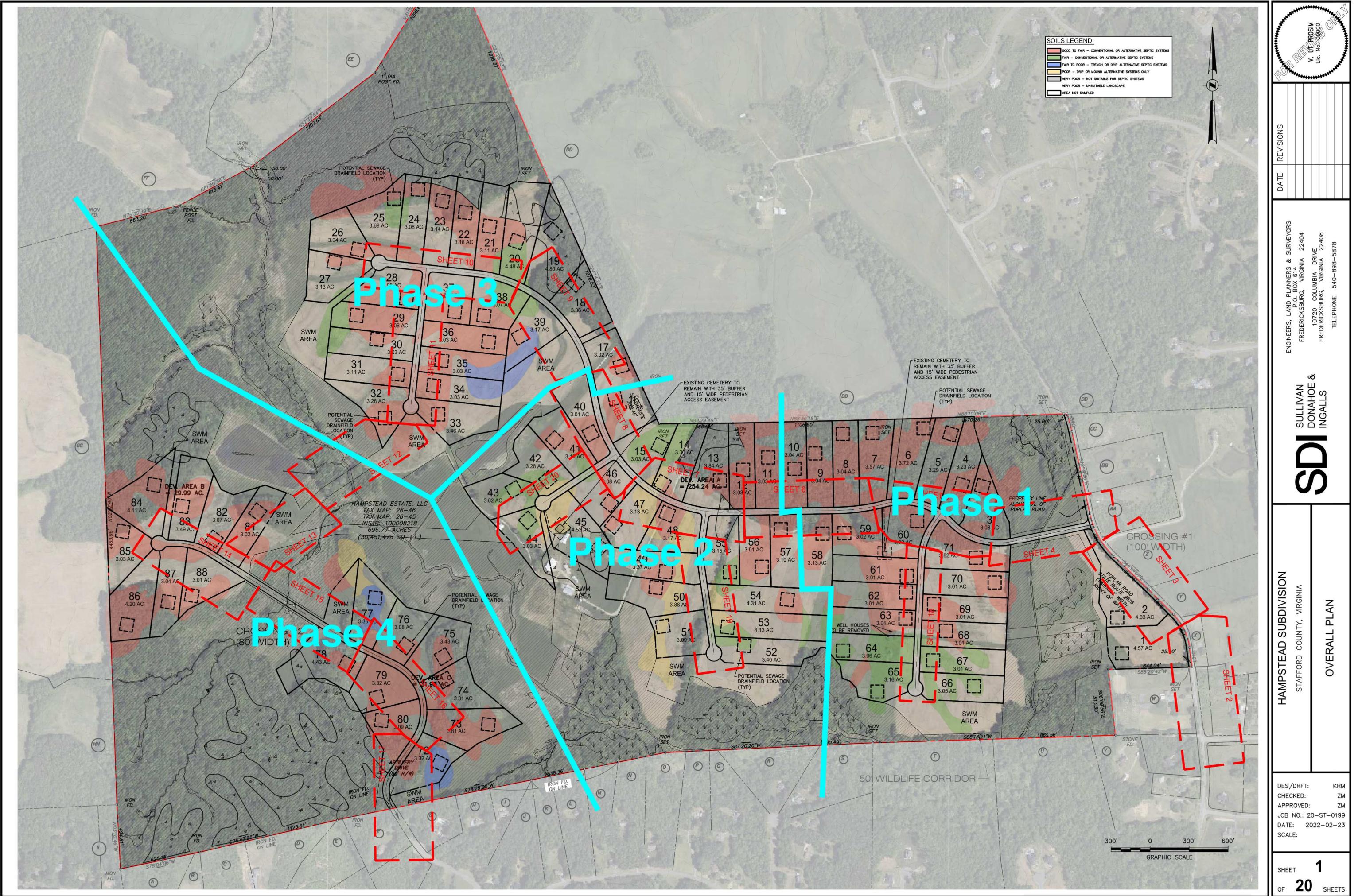


Keith Luc Oster, PE
Sullivan, Donahoe & Ingalls, PC

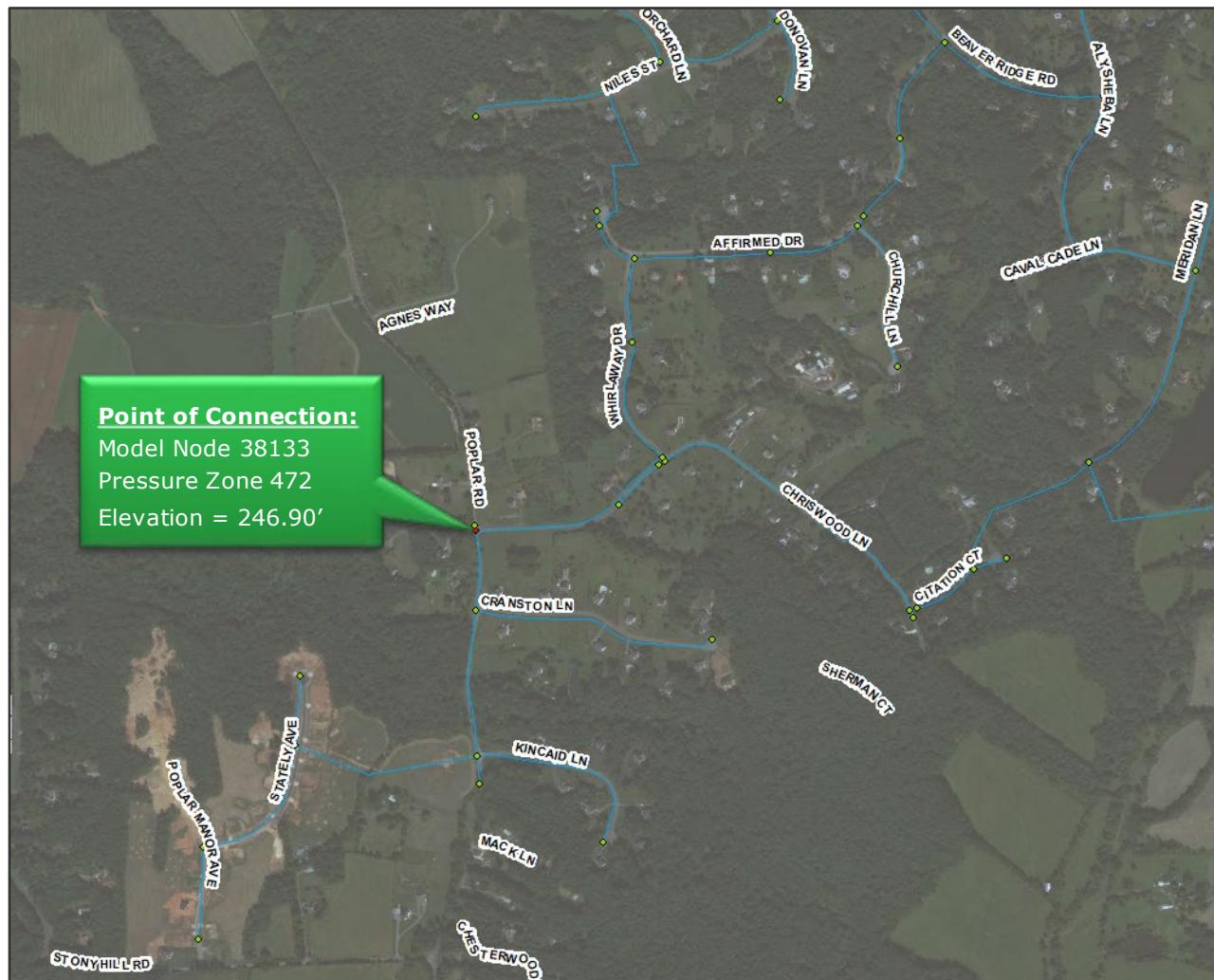
C.

Scenario: Peak Day Demand (1.5x)





County of Stafford
Water System Flow Analysis
Hampstead – Point of Connection Pump Curve



Date Modeled: 03/10/2021

Flow (gpm)	Head (ft)
0	462.2 (93.2 psi)
670	427.5 (78.2 psi)
1,341	343.2 (41.7 psi)

Fire Flow Report - Phase 1

Fire Flow Node FlexTable: Fire Flow Report

Label	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Calculated System Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Junction w/ Minimum Pressure (System)
H-1	1,000	1,891	20	38	J-5 Phase 1 End
H-2	1,000	1,715	20	36	J-5 Phase 1 End
H-3	1,000	1,576	20	21	J-5 Phase 1 End
H-14	1,000	1,615	24	20	J-4 H-14
J-1 H-1	1,000	1,891	20	46	J-5 Phase 1 End
J-3 Main-Side A	1,000	1,694	20	38	J-5 Phase 1 End
J-4 H-14	1,000	1,628	20	22	H-14
J-5 Phase 1 End	1,000	1,531	30	20	H-3
J-12 H-2	1,000	1,715	20	43	J-5 Phase 1 End
J-13 H-3	1,000	1,576	20	24	J-5 Phase 1 End
Chriswood Lane Connection	1,000	2,498	20	44	J-5 Phase 1 End
J-20 Poplar-Main	1,000	1,899	20	46	J-5 Phase 1 End

Fire Flow Report - Phase 2

Fire Flow Node FlexTable: Fire Flow Report

Label	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Calculated System Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Junction w/ Minimum Pressure (System)
H-1	1,000	1,900	20	35	H-3
H-2	1,000	1,723	20	34	H-3
H-3	1,000	1,579	21	20	H-12
H-5	1,000	1,459	20	22	H-12
H-6	1,000	1,405	20	24	H-12
H-12	1,000	1,339	24	20	J-8 H-12
H-13	1,000	1,430	23	20	J-6 H-13
H-14	1,000	1,611	24	20	J-4 H-14
J-1 H-1	1,000	1,900	20	44	H-3
J-3 Main-Side A	1,000	1,701	20	35	H-3
J-4 H-14	1,000	1,624	20	22	H-14
J-5 Main-Side B	1,000	1,481	20	29	H-12
J-6 H-13	1,000	1,438	20	22	H-13
J-7 Main-Side C	1,000	1,406	20	30	H-12
J-8 H-12	1,000	1,348	20	22	H-12
J-12 H-2	1,000	1,723	20	41	H-3
J-13 H-3	1,000	1,583	20	22	H-3
J-15 H-5	1,000	1,460	20	25	H-12
J-16 H-6	1,000	1,406	20	26	H-12
J-17 Phase 2 End	1,000	1,405	20	23	H-12
Chriswood Lane Connection	1,000	2,512	20	42	H-3
J-20 Poplar-Main	1,000	1,908	20	44	H-3

Fire Flow Report - Phase 3

Fire Flow Node FlexTable: Fire Flow Report

Label	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Calculated System Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Junction w/ Minimum Pressure (System)
H-1	1,000	1,897	20	35	H-3
H-2	1,000	1,720	20	34	H-3
H-3	1,000	1,575	21	20	H-12
H-5	1,000	1,456	20	22	H-12
H-6	1,000	1,402	20	24	H-12
H-7	1,000	1,341	20	23	H-8
H-8	1,000	1,229	24	20	J-18 H-8
H-9	1,000	1,251	21	20	H-8
H-11	1,000	1,203	23	20	J-11 H-11-Phase 3 End
H-12	1,000	1,336	24	20	J-8 H-12
H-13	1,000	1,427	23	20	J-6 H-13
H-14	1,000	1,608	24	20	J-4 H-14
J-1 H-1	1,000	1,897	20	44	H-3
J-2 H-9	1,000	1,252	20	23	H-8
J-3 Main-Side A	1,000	1,698	20	35	H-3
J-4 H-14	1,000	1,621	20	22	H-14
J-5 Main-Side B	1,000	1,477	20	29	H-12
J-6 H-13	1,000	1,435	20	22	H-13
J-7 Main-Side C	1,000	1,402	20	30	H-12
J-8 H-12	1,000	1,345	20	22	H-12
J-9 Main-Main 2	1,000	1,253	20	26	H-8
J-11 H-11-Phase 3 End	1,000	1,210	20	22	H-11
J-12 H-2	1,000	1,720	20	41	H-3
J-13 H-3	1,000	1,579	20	22	H-3
J-15 H-5	1,000	1,456	20	25	H-12
J-16 H-6	1,000	1,402	20	26	H-12
J-17 H-7	1,000	1,341	20	25	H-8
J-18 H-8	1,000	1,240	20	22	H-8
Chriswood Lane Connection	1,000	2,509	20	42	H-3
J-20 Poplar-Main	1,000	1,905	20	44	H-3

Fire Flow Report - Full Buildout

Fire Flow Node FlexTable: Fire Flow Report

Label	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Calculated System Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Junction w/ Minimum Pressure (System)
H-1	1,000	1,887	20	36	H-17
H-2	1,000	1,711	20	35	H-17
H-3	1,000	1,571	20	20	H-17
H-5	1,000	1,447	20	23	H-17
H-6	1,000	1,384	20	27	H-17
H-7	1,000	1,318	20	27	H-17
H-8	1,000	1,218	20	22	H-17
H-9	1,000	1,231	20	24	H-17
H-11	1,000	1,170	20	27	H-17
H-12	1,000	1,332	24	20	J-8 H-12
H-13	1,000	1,423	23	20	J-6 H-13
H-14	1,000	1,604	24	20	J-4 H-14
H-16	1,000	1,079	22	20	H-17
H-17	1,000	1,005	22	20	J-23 H-17
J-1 H-1	1,000	1,887	20	44	H-17
J-2 H-9	1,000	1,231	20	27	H-17
J-3 Main-Side A	1,000	1,689	20	36	H-17
J-4 H-14	1,000	1,618	20	22	H-14
J-5 Main-Side B	1,000	1,468	20	30	H-17
J-6 H-13	1,000	1,432	20	22	H-13
J-7 Main-Side C	1,000	1,393	20	31	H-17
J-8 H-12	1,000	1,341	20	22	H-12
J-9 Main-Main 2	1,000	1,231	20	30	H-17
J-11 H-11	1,000	1,170	20	30	H-17
J-12 H-2	1,000	1,711	20	42	H-17
J-13 H-3	1,000	1,571	20	22	H-17
J-15 H-5	1,000	1,447	20	26	H-17
J-16 H-6	1,000	1,384	20	29	H-17
J-17 H-7	1,000	1,318	20	29	H-17
J-18 H-8	1,000	1,218	20	26	H-17
Chriswood Lane Connection	1,000	2,497	20	42	H-17

Fire Flow Node FlexTable: Fire Flow Report

Label	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Pressure (Calculated System Lower Limit) (psi)	Pressure (Calculated Residual) (psi)	Junction w/ Minimum Pressure (System)
J-20 Poplar-Main	1,000	1,895	20	44	H-17
J-21 Main 2-Side D	1,000	1,086	20	34	H-17
J-22 H-16	1,000	1,082	20	22	H-16
J-23 H-17	1,000	1,006	20	22	H-17

Peak Hour Demand Pipe Table

FlexTable: Pipe Table

Label	Start Node	Stop Node	Diameter (in)	Length (ft)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)
P-11 Side A	J-3 Main-Side A	J-4 H-14	8.0	1,424	120.0	2	0.01
P-12 Side B	J-5 Main-Side B	J-6 H-13	8.0	1,145	120.0	1	0.00
P-13 Side C	J-7 Main-Side C	J-8 H-12	8.0	716	120.0	1	0.00
P-11 Main	J-9 Main-Main 2	J-2 H-9	8.0	408	120.0	1	0.01
P-1 Main	J-1 H-1	J-12 H-2	8.0	1,003	120.0	19	0.12
P-2 Main	J-12 H-2	J-3 Main-Side A	8.0	145	120.0	18	0.11
P-3 Main	J-3 Main-Side A	J-13 H-3	8.0	887	120.0	15	0.09
P-4 Main	J-13 H-3	J-5 Main-Side B	8.0	952	120.0	13	0.08
P-7 Main	J-15 H-5	J-7 Main-Side C	8.0	605	120.0	11	0.07
P-8 Main	J-7 Main-Side C	J-16 H-6	8.0	110	120.0	10	0.06
P-9 Main	J-16 H-6	J-17 H-7	8.0	855	120.0	9	0.05
P-10 Main	J-17 H-7	J-9 Main-Main 2	8.0	1,344	120.0	8	0.05
P-14 Main 2	J-9 Main-Main 2	J-18 H-8	8.0	216	120.0	6	0.04
P-15 Main 2	J-18 H-8	J-11 H-11	8.0	904	120.0	5	0.03
P-7 H-1	J-1 H-1	H-1	6.0	54	120.0	0	0.00
P-8 H-2	J-12 H-2	H-2	6.0	12	120.0	0	0.00
P-9 H-14	J-4 H-14	H-14	6.0	30	120.0	0	0.00
P-10 H-3	J-13 H-3	H-3	6.0	9	120.0	0	0.00
P-30 H-13	J-6 H-13	H-13	6.0	27	120.0	0	0.00
P-13 H-5	J-15 H-5	H-5	6.0	15	120.0	0	0.00
P-14 H-6	J-16 H-6	H-6	6.0	15	120.0	0	0.00
P-15 H-12	J-8 H-12	H-12	6.0	33	120.0	0	0.00
P-16 H-7	J-17 H-7	H-7	6.0	11	120.0	0	0.00
P-17 H-8	J-18 H-8	H-8	6.0	50	120.0	0	0.00
P-19 H-11	J-11 H-11	H-11	6.0	33	120.0	0	0.00
P-20 H-9	J-2 H-9	H-9	6.0	34	120.0	0	0.00
P-24 Poplar Road	Chriswood Lane Connection	J-20 Poplar-Main	8.0	1,986	120.0	19	0.12
P-25 Main	J-20 Poplar-Main	J-1 H-1	8.0	39	120.0	19	0.12
Chriswood Reservoir Connector	Chriswood Lane Boundary Reservoir	Chriswood Lane Boundary Condition	12.0	1	120.0	19	0.05
Chriswood Boundary Connector	Chriswood Lane Boundary Condition	Chriswood Lane Connection	12.0	1	120.0	19	0.05
P-31 Side D	J-21 Main 2-Side D	J-23 H-17	8.0	2,189	120.0	3	0.02
P-33 H-16	J-22 H-16	H-16	6.0	22	120.0	0	0.00

FlexTable: Pipe Table

Label	Start Node	Stop Node	Diameter (in)	Length (ft)	Hazen- Williams C	Flow (gpm)	Velocity (ft/s)
P-35 H-17	J-23 H-17	H-17	6.0	6	120.0	0	0.00
P-6 Main	J-5 Main-Side B	J-15 H-5	8.0	220	120.0	12	0.08
P-39 Side D	J-21 Main 2-Side D	J-22 H-16	8.0	737	120.0	1	0.01
P-42 Main 2	J-11 H-11	J-21 Main 2-Side D	8.0	1,835	120.0	4	0.03

Peak Hour Demand Junction Table

FlexTable: Junction Table

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1 H-1	242.50	0	709.01	202
J-2 H-9	269.50	1	708.97	190
J-3 Main-Side A	261.40	1	708.99	194
J-4 H-14	248.50	2	708.99	199
J-5 Main-Side B	276.00	1	708.98	187
J-6 H-13	264.10	1	708.98	192
J-7 Main-Side C	272.50	1	708.98	189
J-8 H-12	293.10	1	708.98	180
J-9 Main-Main 2	276.00	1	708.97	187
J-11 H-11	274.70	1	708.97	188
J-12 H-2	249.10	1	709.00	199
J-13 H-3	293.50	2	708.99	180
J-15 H-5	285.20	1	708.98	183
J-16 H-6	277.70	2	708.98	187
J-17 H-7	277.90	1	708.97	187
J-18 H-8	285.80	1	708.97	183
Chriswood Lane Connection	247.30	0	709.04	200
J-20 Poplar-Main	242.50	0	709.01	202
J-21 Main 2-Side D	267.00	1	708.97	191
J-22 H-16	279.90	1	708.97	186
J-23 H-17	295.40	3	708.97	179

Peak Hour Demand Hydrant Table

FlexTable: Hydrant Table

Label	Hydrant Status	Length (Hydrant Lateral) (ft)	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
H-1	Closed	20	246.20	0	709.01	200
H-2	Closed	20	262.60	0	709.00	193
H-3	Closed	20	297.00	0	708.99	178
H-5	Closed	20	288.70	0	708.98	182
H-6	Closed	20	281.20	0	708.98	185
H-7	Closed	20	281.40	0	708.97	185
H-8	Closed	20	289.30	0	708.97	182
H-9	Closed	20	273.00	0	708.97	189
H-11	Closed	20	278.20	0	708.97	186
H-12	Closed	20	296.60	0	708.98	178
H-13	Closed	20	267.60	0	708.98	191
H-14	Closed	20	252.00	0	708.99	198
H-16	Closed	20	283.40	0	708.97	184
H-17	Closed	20	298.90	0	708.97	177

Peak Hour Demand Reservoir Table

FlexTable: Reservoir Table

Label	Elevation (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)
Chriswood Lane Boundary Reservoir	246.90	19	246.90

Peak Hour Demand Pump Table

FlexTable: Pump Table

Label	Pump Definition	Elevation (ft)	Hydraulic Grade (Suction) (ft)	Hydraulic Grade (Discharge) (ft)	Flow (Total) (gpm)	Pump Head (ft)
Chriswood Lane Boundary Condition	Node 38133	0.00	246.90	709.04	19	462.14

Fire at Hydraulically Most Remote Hydrant with Avg Hour Pipe Table

FlexTable: Pipe Table

Label	Start Node	Stop Node	Diameter (in)	Length (ft)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)
P-11 Side A	J-3 Main-Side A	J-4 H-14	8.0	1,424	120.0	2	0.01
P-12 Side B	J-5 Main-Side B	J-6 H-13	8.0	1,145	120.0	1	0.00
P-13 Side C	J-7 Main-Side C	J-8 H-12	8.0	716	120.0	1	0.00
P-11 Main	J-9 Main-Main 2	J-2 H-9	8.0	408	120.0	1	0.01
P-1 Main	J-1 H-1	J-12 H-2	8.0	1,003	120.0	1,024	6.54
P-2 Main	J-12 H-2	J-3 Main-Side A	8.0	145	120.0	1,023	6.53
P-3 Main	J-3 Main-Side A	J-13 H-3	8.0	887	120.0	1,020	6.51
P-4 Main	J-13 H-3	J-5 Main-Side B	8.0	952	120.0	1,018	6.50
P-7 Main	J-15 H-5	J-7 Main-Side C	8.0	605	120.0	1,016	6.48
P-8 Main	J-7 Main-Side C	J-16 H-6	8.0	110	120.0	1,015	6.48
P-9 Main	J-16 H-6	J-17 H-7	8.0	855	120.0	1,014	6.47
P-10 Main	J-17 H-7	J-9 Main-Main 2	8.0	1,344	120.0	1,013	6.46
P-14 Main 2	J-9 Main-Main 2	J-18 H-8	8.0	216	120.0	1,011	6.45
P-15 Main 2	J-18 H-8	J-11 H-11	8.0	904	120.0	1,010	6.45
P-7 H-1	J-1 H-1	H-1	6.0	54	120.0	0	0.00
P-8 H-2	J-12 H-2	H-2	6.0	12	120.0	0	0.00
P-9 H-14	J-4 H-14	H-14	6.0	30	120.0	0	0.00
P-10 H-3	J-13 H-3	H-3	6.0	9	120.0	0	0.00
P-30 H-13	J-6 H-13	H-13	6.0	27	120.0	0	0.00
P-13 H-5	J-15 H-5	H-5	6.0	15	120.0	0	0.00
P-14 H-6	J-16 H-6	H-6	6.0	15	120.0	0	0.00
P-15 H-12	J-8 H-12	H-12	6.0	33	120.0	0	0.00
P-16 H-7	J-17 H-7	H-7	6.0	11	120.0	0	0.00
P-17 H-8	J-18 H-8	H-8	6.0	50	120.0	0	0.00
P-19 H-11	J-11 H-11	H-11	6.0	33	120.0	0	0.00
P-20 H-9	J-2 H-9	H-9	6.0	34	120.0	0	0.00
P-24 Poplar Road	Chriswood Lane Connection	J-20 Poplar-Main	8.0	1,986	120.0	1,024	6.54
P-25 Main	J-20 Poplar-Main	J-1 H-1	8.0	39	120.0	1,024	6.54
Chriswood Reservoir Connector	Chriswood Lane Boundary Reservoir	Chriswood Lane Boundary Condition	12.0	1	120.0	1,024	2.90
Chriswood Boundary Connector	Chriswood Lane Boundary Condition	Chriswood Lane Connection	12.0	1	120.0	1,024	2.90
P-31 Side D	J-21 Main 2-Side D	J-23 H-17	8.0	2,189	120.0	1,007	6.43
P-33 H-16	J-22 H-16	H-16	6.0	22	120.0	0	0.00

FlexTable: Pipe Table

Label	Start Node	Stop Node	Diameter (in)	Length (ft)	Hazen- Williams C	Flow (gpm)	Velocity (ft/s)
P-35 H-17	J-23 H-17	H-17	6.0	6	120.0	1,005	11.40
P-6 Main	J-5 Main-Side B	J-15 H-5	8.0	220	120.0	1,017	6.49
P-39 Side D	J-21 Main 2-Side D	J-22 H-16	8.0	737	120.0	1	0.01
P-42 Main 2	J-11 H-11	J-21 Main 2-Side D	8.0	1,835	120.0	1,009	6.44

Fire at Hydraulically Most Remote Hydrant with Avg Hour Junction Table

FlexTable: Junction Table

Label	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-1 H-1	242.50	0	590.56	151
J-2 H-9	269.50	1	456.70	81
J-3 Main-Side A	261.40	1	565.15	131
J-4 H-14	248.50	2	565.15	137
J-5 Main-Side B	276.00	1	524.80	108
J-6 H-13	264.10	1	524.80	113
J-7 Main-Side C	272.50	1	506.80	101
J-8 H-12	293.10	1	506.80	92
J-9 Main-Main 2	276.00	1	456.70	78
J-11 H-11	274.70	1	432.53	68
J-12 H-2	249.10	1	568.35	138
J-13 H-3	293.50	2	545.66	109
J-15 H-5	285.20	1	520.00	102
J-16 H-6	277.70	2	504.40	98
J-17 H-7	277.90	1	485.83	90
J-18 H-8	285.80	1	452.04	72
Chriswood Lane Connection	247.30	0	635.38	168
J-20 Poplar-Main	242.50	0	591.42	151
J-21 Main 2-Side D	267.00	1	393.01	55
J-22 H-16	279.90	1	393.01	49
J-23 H-17	295.40	3	346.00	22

Fire at Hydraulically Most Remote Hydrant with Avg Hour Hydrant Table

FlexTable: Hydrant Table

Label	Hydrant Status	Length (Hydrant Lateral) (ft)	Elevation (ft)	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
H-1	Closed	20	246.20	0	590.56	149
H-2	Closed	20	262.60	0	568.35	132
H-3	Closed	20	297.00	0	545.66	108
H-5	Closed	20	288.70	0	520.00	100
H-6	Closed	20	281.20	0	504.40	97
H-7	Closed	20	281.40	0	485.83	88
H-8	Closed	20	289.30	0	452.04	70
H-9	Closed	20	273.00	0	456.70	79
H-11	Closed	20	278.20	0	432.53	67
H-12	Closed	20	296.60	0	506.80	91
H-13	Closed	20	267.60	0	524.80	111
H-14	Closed	20	252.00	0	565.15	135
H-16	Closed	20	283.40	0	393.01	47
H-17	Closed	20	298.90	1,005	345.46	20

Fire at Hydraulically Most Remote Hydrant with Avg Hour Reservoir Table

FlexTable: Reservoir Table

Label	Elevation (ft)	Flow (Out net) (gpm)	Hydraulic Grade (ft)
Chriswood Lane Boundary Reservoir	246.90	1,024	246.90

Fire at Hydraulically Most Remote Hydrant with Avg Hour Pump Table

FlexTable: Pump Table

Label	Pump Definition	Elevation (ft)	Hydraulic Grade (Suction) (ft)	Hydraulic Grade (Discharge) (ft)	Flow (Total) (gpm)	Pump Head (ft)
Chriswood Lane Boundary Condition	Node 38133	0.00	246.90	635.39	1,024	388.49