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ANALYSIS & DESIGN OF WATER DISTRIBUTION NETWORK OF URBAN AREA BY WATERGEMS SOFTWARE

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Abstract: Paper is regarding water distribution network of urban areas. In this we studied all parameters of water like pressure, velocity, demand and majorly head losses. In this paper we have designed a specific water distribution network for urban areas considering all total demands, by demand method.

Index Terms - WaterGems, Water Distribution Network, Urban Areas.

<u>CHAPTER 1</u>

I. INTRODUCTION

Water distribution network is necessary infrastructure for supply of water. It connects consumers to sources of water using hydraulic components such as pipes, valves, pumps and tanks. Primary aim of water distribution network is to deliver water to meet the demands on pressure and quality. Pune is the city with major of water distribution problems. As it is faster growing city it has to keep water distribution network good for keeping the pace of the water demand growth in various parts of the town. WaterGems is hydraulic modeling software which is used for analysis and design of water distribution network. Google Earth used for ensuring layout of water distribution network and Satellite image of study. The study presents hydraulic analysis of Bibwewadi territory of Pune city.

II. SCOPE OF PROJECT

- To design a proper water distribution network across the area.
- To reduce water loss and Non-Revenue Water.
- Ensure sustainable and economical Water Supply service.
- Helps to manage water supply and demand.

• To convert exiting intermittent WS system to 24 x 7 WS system which incudes transmission, storage and distribution of clear water to selected area.

III. NEED OF WATER SUPPLY PROJECTS

• Provide 24x7 equitable distribution of the water with adequate pressures, as per CPHEEO guidelines.

• Planning of the "Active Leakage Control system", to reduce the Non –Revenue Water To acceptable level of 15 % as per CPHEEO guidelines.

• To achieve the goal of continuous pressurized water supply in a reasonable time period.

• To ensure safe and equitable water supply on the basis of DMAs population in Pune city for the period of next 5 years (2017-2022).

- To ensure the distribution of the water during the entire day (24x7 modality).
- To reduce the level of water losses and Non-Revenue Water.
- To ensure the technical and economical sustainability of the water supply service.

IV. AIM

• To Analyze and Design Water Distribution Network of Urban Area.

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- To Analyze Existing Water Distribution Network of selected study area.
- To Design Water Distribution Network of selected study area.
- To check all parameters in Results which is required in designing of water distribution network.

CHAPTER 2: METHODOLOGY

- 1. Take Survey map of the study area from Google earth software.
- 2. Analyze the existing network.
- 3. Designing of water distribution network in WaterGEMS software.
- 4. Specify population based nodal demand.
- 5. Validate and compute the network.
- 6. Check all parameters. For eg. flow, major and minor losses, velocity.

I. SELECTION OF STUDY AREA



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- Place: Ward No 40, Bibwewadi, Pune City, Maharashtra, India.
- Coordinate : 18.4690° N, 73.8641° E
- Population: 24791
- Pin Code: 411037

II. DESCRIPTION OF STUDY AREA

- Administration area of PMC: 243.95 Sq.Km.
- Area of PMC divided into 76 Prabhag.
- Study area: 40th Prabhag number
- Ward Population: 71924, Network Population: 24791
- Over head Tank capacity: 78 Lakh liters
- Location of Overhead Tank:-- Bibawewadi Gaothan Overhead Tank G9+549 Pune, Maharashtra
- Transmission of water: Khadakwasala dam to WTP and from WTP to Overhead Tank

Ward No. 40 is a ward in Pune Municipal Corporation, Maharashtra state, India. The main reason for the selection of above study area is uneven pressure and tremendous fluctuations observed in the flow rate. A water distribution network is an essential hydraulic infrastructure which is part of water supply system composed of different set of pipe, hydraulic devices and storage devices. Water distribution system connects to source of water using hydraulic components.

III. WORK FLOW

- Data Collection:
- 1. Population
- 2. Elevation point of study area
- To work:
- 1. Population Forecasting
- 2. Demand
- 3. Survey Base Line
- 4. Designing of network on WaterGems
- 5. Validate
- 6. Compute

THEORY

• WATERGEMS

BentleyWaterGems is effective software with a comprehensive yet easy to use decision support tool for water distribution network. In watergems we can do analysis and designing of hydraulic model, water quality analysis, PDD simulation, Leakage detection, etc. In Maharashtra state for water supply in urban areas municipal corporation works. In this water distribution network is designed in watergems software.

• HYDRAULIC REVIEW

Velocity = Flow / Area Flow=Volume / Time Pressure Force / Area Energy = { $H = (p/y)+z+(v^2/2g)$ } Head loss Darcy Weisbach - h = flv²/2gd Hazen Williams - h = (KL/D116) x (V/C

Hazen Williams - h = (KL/D116) x (V/C)1.85 Mannings-V = $(1/n) x R^{2/3} x S^{1/2}$

• POPULATION FORECASTING

The knowledge about the past populations and assumptions about the future are fundamental to planning decisions& the projections are estimates of the population for future years. They illustrate the plausible courses of future population and are developed using normative procedures comprised of mathematical models and analysis of growth rates based on historical data. The projected numbers are best assessed population estimated based on published government/institutional data comprising of the most recent decennial census and pune city development plan, the design population is estimated considering the future growth patterns of the area under consideration.

The design population is estimated with due regard to all the factors governing the future growth and development of the project area in industrial, commercial, educational, social and administration spheres. Special factors causing sudden immigration or influx of population growth and can also be graphically interpreted wherever necessary.

For estimation of the design population, various methods have been prescribed in the manual on water supply and treatment published central public health and environmental organization under ministry of urban development, which are applicable to similar habitats. The fact is that none of the method guarantees the exact precision of population projection, as the cities are dynamic entities and their development changes from time to time depending upon the master planning .city administration, policies, infrastructure creation and socio-economic conditions.

• **POPULATION FORECASTING METHODS:**

Arithmetical Increase Method

Rate of change of population with time is assumed to be constant. Applicable to old and large cities with no industrial growth and reached a saturation or maximum development. This method yields lower result for rapidly growing cities. $Pn = (P^{\circ} + n.x)$

Where p° = Latest known population;

Pn = prospective population after n decades.

X = Average increases in population per decade.

Geometrical Increase Method

Percentage increase in population from decade to decade is assumed to be constant. It gives good result for young cities and expanding rapidly.

 $Pn = P\circ [1 + (r/100)]^n$,

r = Geometrical mean percentage increase.

Incremental Increase Method

This method is modification of arithmetical increase method and it is suitable for an average size town under normal condition where the growth rate is found to be in increasing order While adopting this method the increase in increment is considered for calculating future population. The incremental increase is determined for each decade from the past population and the average value is added to the present population along with the average rate of increase.

Average of increase in population is found by arithmetical increase method and is to this is added the average of net incremental increase.

 $Pn = P^{\circ} + n.x + n (n+1) / 2 X Y$

Where, Pn increase. Population after nth decade, X = Average increase and Y = Incremental

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• DESIGN PERIOD

The design period of thirty years is considered, as per the standard norm of the CPHEEO. The pumps are designed for first stage of the design period, i.e. 15 years. The design years for various stages are as below

BASE YEAR 2021 DESIGN YEAR 2023 ULTIMATE STAGE 2053 DEMAND AND ITS FACTORS



RESULT

• POPULATION FORECASTING

	BIBV	VEWADI WAT	ER SUPPLY SC	HEME	
		POPULATIO	N FORECAST		
Sr. No.	Year	Population	Increase in decade	Incremental increase in decade	Rate of growth for decade
1	1971				
1	1981	10860			
			1312		0.121
2	1991	12172		2336	
			3648		0.300
3	2001	15820		5323	
			8971		0.567
4	2011	24791			
				1	
	Average		4644.00	3830.00	0.274
A)	Incremental Incr Pn=P+nx+n(n+1)	ease Method y/2	P=Population in 2 X=Av. Increase Po y=Av.Increament	2001 er decade al increase Per de	ecade
Year	Р	\mathbf{Pac}	n=No. of decade	n	Population
2023	24791	4644.00	3830	1.20	35419
2038	24791	4644.00	3830	2.70	56461
2053	24791	4644.00	3830	4.20	86119
В)	Geometrical Met	thod	Pg-Pato of growt	h for docado	
Year	PII-P(I'Rg)II	Rø	n n	Popul	ation
2023	24791	0.274	1.20	331	151
2038	24791	0.274	2.70	476	571
2053	24791	0.274	4.20	685	50
C)	Arithmatic Increa	ase Method			
	Pn=P+nx		P = Population in	2011	
			x = Av. Increase P	Per decade	
	-		n = No. of decade	2	
Year	P	X	n	Popul	ation
2023	24/91	4644	1.20	303	304
2038	24/91	4044	4 20	3/3	296
2000	Average Dopulat	ion	4.20	442	
Year	Incremental	Geometrical	Arithmatic		Remarks
	Increase	Method	Increase	Population	
	Method		Method		
2023	35419	33151	30364	32978	Present
2038	56461	47671	37330	47154	Intermediate
2053	86119	68550	44296	66322	Future Stage

NETWORK VALIDATION



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• TANK REPORT



• FLEX TABLE – JUNCTION

	ID	Label	Elevation (m)	Demand (ms/day)	Hydraulic Grade (m)	Pressure (m H2O)
401: J-1	401	J-1	188.06	34	213.21	25
402: J-2	402	J-2	188.06	23	213.21	25
104: J-3	404	3-3	187.15	39	213.05	26
405: 3-4	405	3-4	187.15	4	213.05	26
107: 3-5	407	3-5	188.06	148	213.32	25
108: 3-6	408	3-6	188.06	94	213.32	25
11: 3-7	411	3-7	190.50	65	213.40	23
12: 3-8	412	J-8	190.50	11	213.40	23
14: 3-9	414	3-9	187.76	20	213.04	25
15: J-10	415	3-10	187.76	54	213.04	25
17: 3-11	417	3-11	187.45	35	213.04	26
18: J-12	418	3-12	187.45	63	213.04	26
20: 3-13	420	J-13	187.76	139	213.04	25
21: J-14	421	3-14	187.76	15	213.04	25
23: 3-15	423	3-15	187.45	161	213.04	26
24: J-16	424	J-16	187.45	36	213.04	26
26: 3-17	426	3-17	190.80	225	213.40	23
27: J-18	427	J-18	190.80	23	213.39	23
29: J-19	429	3-19	187.76	14	213.04	25
130: J-20	430	3-20	187.76	27	213.04	25
32: 3-21	432	3-21	187.76	82	213.04	25
33: 3-22	433	3-22	187.76	17	213.04	25
35: 3-23	435	J-23	187.45	52	213.04	26
136: J-24	436	3-24	187.45	22	213.04	26
H40: J-25	440	J-25	190.50	194	213.44	23
142: J-26	442	3-26	193.24	42	213.43	20
H43: J-27	443	3-27	193.24	51	213.43	20
147: J-28	447	3-28	188.06	1	213.21	25
H49: J-29	449	3-29	195.07	3	213.44	18
50: 3-30	450	3-30	195.38	171	213.44	18
52: 3-31	452	3-31	194.77	10	213.44	19
54: 3-32	454	3-32	189.28	285	213.07	24
155: J-33	455	3-33	189.28	85	213.06	24
57: 3-34	457	J-34	186.84	39	212.74	26
ise: J-35	458	3-35	186.84	60	212.75	26
160: 3-36	460	J-36	187.15	36	212.97	26
161: J-37	461	3-37	187.15	69	212.97	26
163: 3-38	463	J-38	187.45	50	212.98	25
104: J-39	464	3-39	187.45	99	212.98	25
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	ID	Label	Elevation (m)	Demand (m ^s /day)	Hydraulic Grade (m)	Pressure (m H2O
466: 3-40	466	J-40	186.84	70	212.72	26
467: J-41	467	3-41	187.15	76	212.71	26
470: 3-42	470	3-42	190.20	6	213.43	23
471: J-43	471	3-43	190.50	218	213.43	23
473:)-44	473	3-44	188.37	16	213.11	25
474: 3-45	474	3-45	188.37	129	213.11	25
476: 3-46	476	3-46	186.84	55	212.67	26
477: 3-47	477	3-47	186.84	20	212.67	26
479: 3-48	479	3-48	186.54	73	212.78	26
480: 3-49	480	3-49	186.23	67	212.78	26
482: 3-50	482	3-50	200.56	138	213.48	13
483: 3-51	483	3-51	200.56	149	213.48	13
485: 3-52	485	3-52	187.45	66	213.05	26
487: 3-53	487	3-53	188.67	164	213.35	25
488: 3-54	488	3-54	188.98	252	213.35	24
490: 3-55	490	3-55	186.84	3	213.04	26
491: J-56	491	J-56	186.84	56	213.04	26
493: J-57	493	J-57	188.37	34	213.09	25
494: 3-58	494	J-58	188.37	24	213.09	25
496: J-59	496	J-59	205.74	4	213.50	8
497: 3-60	497	J-60	206.04	8	213.50	/
499: J-61	499	J-61	187.15	32	213.00	26
500: J-62	500	3-62	187.15	68	212.78	26
502: J-63	502	J-63	188.67	35	213.11	24
503: 3-64	503	3-64	188.98	24	213.11	24
505: J-65	505	J-65	187.45	33	213.05	26
507: 3.00	507	1.67	187.15	10	212.77	20
508. 3-07	500	3.60	107.15	10	212.70	20
510: 3-68	510	3.60	205.74	52	213.50	0
512: 1.70	511	1-70	205.74	-47	213.50	25
514- 1-71	513	3-70	197.15	25	212.07	25
516: 1.72	514	3-71	107.15	70	212.07	25
510- 1-72	510	1.72	196.64	51	212.71	20
520: 1.74	519	1.74	186.33	31	213.02	20
522- 1-75	520	3.75	197.76	21	213.02	27
522. 3-75	522	3.76	107.70	31	212.00	25
526- 1-77	523	1.77	107.45	21	212.00	23
529: 1-78	520	1.78	187.76	40	213.10	24
520: 1.70	520	1.70	197.45	40	212.05	25

FlexTable

action Table (Current Time: 0.000 hours) (Priti N

	ID	Label	Elevation (m)	Demand (m ^s /day)	Hydraulic Grade (m)	Pressure (m H2O)
530: J-79	530	3-79	187.45	4	213.05	26
532: J-80	532	J-80	206.04	438	213.50	7
534: J-81	534	J-81	188.37	49	213.08	25
539: J-82	539	J-82	188.98	166	213.41	24
540: J-83	540	J-83	188.98	33	213.41	24
542: 3-84	542	3-84	186.84	55	212.80	26
543: 3-85	543	3-85	187.15	6	212.80	26
545: J-86	545	3-86	187.15	18	213.01	26
546: 3-87	546	3-87	187.15	6	213.01	26
549: 3-88	549	3-88	187.15	125	212.92	26
551: J-89	551	3-89	186.54	145	212.69	26
552: J-90	552	J-90	186.54	62	212.69	26
555: 3-91	555	J-91	187.76	6	212.80	25
557: 3-92	557	J-92	100.04	64	212.73	20
567: 1-04	550	1.04	100.04	69	212.75	20
564: 1-05	502	1.05	187.45	00	212.01	25
567: 1-96	567	1.96	186.84	15	213.11	24
568: 1.07	569	1.07	100.04	91	212.00	20
571: 1-98	571	1.98	186.84	34	213.02	26
572: 1-99	572	1.99	186.54	77	213.02	26
576: 1-100	576	1-100	186.23	47	212.66	26
577: J-101	577	1-101	188.67	8	212.66	24
579: 1-102	579	1-102	191.41	21	213.38	22
580: J-103	580	1-103	192.33	18	213.33	21
582: 3-104	582	3-104	192.94	32	213.43	20
590: J-105	590	J-105	194.77	76	213.46	19
591: J-106	591	J-106	195.07	9	213.46	18
593: J-107	593	J-107	185.93	77	212.68	27
594: J-108	594	J-108	185.62	111	212.68	27
597: J-109	597	J-109	187.76	46	213.21	25
599: J-110	599	J-110	194.46	71	213.44	19
601: J-111	601	3-111	191.41	26	213.34	22
602: J-112	602	J-112	191.11	19	213.36	22
604: J-113	604	J-113	187.45	9	213.07	26
605: J-114	605	3-114	188.06	65	213.07	25
607: J-115	607	J-115	190.80	19	213.39	23
609: J-116	609	J-116	189.89	19	213.36	23
610: J-117	610	3-117	189.28	65	213.36	24
A17- 1-118	617	1,119	101 77	0	212.22	21
290 01 290 eleme	ints displayed					

	5 12 «, m	II • 9	• • • •			
	ID	Label	Elevation (m)	Demand (m ^s /day)	Grade	Pressure (m H2O)
18	612	J-118	191.72	9	213.23	21
19	613	3-119	191.72	27	213.23	21
20	615	J-120	188.67	9	213.34	25
22	621	1-121	185.93	233	213.34	25
23	622	3-123	185.93	108	212.79	27
124	625	3-124	190.20	20	213.38	23
25	630	3-125	189.59	128	213.14	24
126	632	J-126	190.20	29	213.36	23
127	634	J-127	190.50	21	213.36	23
28	636	3-128	111.86	22	213.27	101
29	638	J-129	186.23	/6	213.00	2/
31	641	1131	190.54	22	213.00	20
32	643	3-132	193.55	25	213.43	20
33	646	J-133	191.72	46	213.43	22
34	647	J-134	191.41	11	213.43	22
35	649	J-135	186.84	11	212.97	26
36	650	J-136	186.84	49	212.97	26
37	652	J-137	189.59	11	213.11	23
30	654	1.130	190.20	114	213.39	23
40	923	1-140	189.69	31	213.37	23
41	660	0-141	186.54	60	212.65	26
42	661	3-142	186.23	11	212.65	26
143	663	J-143	191.41	22	213.30	22
144	664	3-144	191.41	28	213.31	22
145	666	3-145	191.11	91	213.29	22
46	668	J-146	187.15	65	212.65	25
48	669	J-147 1-148	187.15	67	212.64	25
49	675	1-149	195.99	79	213.22	17
150	678	0-150	189.59	30	213.37	24
151	680	0-151	186.23	63	213.02	27
52	681	J-152	186.54	12	213.02	26
53	683	J-153	186.54	12	212.65	26
54	685	3-154	186.23	87	212.68	26
55	688	J-155	186.84	12	213.02	26
\$7	601	1,157	197 76	12	212.24	25
exTable: J	Search	urrent Time: (.000 hours) (Priti	Model 1.wtg)	🔁 🔳	۵ 😔
KTable: J	Search unction Table (C	urrent Time: (a	000 hours) (Priti	Model 1.wtg)	2 🗉	۵ ا
G Table: J	Search unction Table (O S C A A ID	urrent Time: (a 🗈 👻 5 Label	0000 hours) (Priti • ▼ III → ▼ Elevation (m)	Model 1.wtg)	Hydraulic Grade	Pressure (m H2O)
G able: J • Ľ	Search unction Table (C ID ID 691	urrent Time: (+ 5 Label -157	000 hours) (Priti .000 hours) (Priti) (Priti .000 hours) (Priti .000 hours) (Priti)	Model 1.wtg) Demand (m³/day) 13	Hydraulc Grade (m) 213.24	Pressure (m H2O)
G Table: J Table: J Table: J Table: J Table: J Table: J Table: J Table: J	Search unction Table (C ID ID 691	urrent Time: (0000 hours) (Priti 0000 hours) (Priti ↓ ↓ ↓ Elevation (m) 187.76 186.54	C C Model 1.wtg) Demand (m³/day) 13 64	Hydraulc Grade (m) 213.24 212.64	Pressure (m H2O) 25 26
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Table: J → C 57 58 59 60 51	Search unction Table (C	urrent Time: (L000 hours) (Priti - #5 - Elevation (m) 187.76 186.54 187.15 187.15 187.15	Demand (m ⁵ /day) 13 64 13 29	Hydraulc Grade (m) 213.24 212.64 212.61 213.03	Pressure (m H2O) 25 26 26 26 26
Table: J	Search unction Table (C ID 691 695 697 699 701 702	urrent Time: (L000 hours) (Priti .000 hours) (Priti) (Priti .000 hours) (Priti .000 hours) (Priti	Demand (m*/day) 13 64 13 29 73	Hydraulic Grade (m) 213.24 212.64 212.64 213.03 212.64 213.03 212.64	Pressure (m H2O) 25 26 26 26 26 26 27
Table: J Table:	Search unction Table (C ID 691 695 697 699 701 703 703	Label -157 -158 -160 -161 -163	000 hours) (Priti • 17, 5 Elevation (m) 187.76 186.54 187.15 187.15 187.93 186.84 193.85	Demand (m ² /day) 13 64 13 29 73 68 13	Hydraulic Grade (m) 212.24 212.64 212.81 212.63 212.64 212.70 213.43	Pressure (m H2O) 25 26 26 26 26 26 26 27 26 27 26 20
Table: J Table:	Search anction Table (C ID 691 695 697 699 701 703 706 710	urrent Time: (Label 3-157 3-158 3-159 3-160 3-161 3-162 3-163 3-164	000 hours) (Priti → ■5 → Elevation (m) 187.76 186.54 187.15 187.15 185.93 186.84 193.85 187.15	Demand (m²/day) 13 64 13 29 73 68 13 335	Hydraulic Grade (m) 213,24 212,64 212,64 212,64 212,81 212,64 212,20 212,43 212,23	Pressure (m H2O) 25 26 26 26 27 26 20 26 20 26
Table: J - C - C - C - C - C - C - C - C	Search unction Table (C S C R M ID 691 695 699 701 703 706 710 714	Label -157 -158 -159 -160 -162 -163 -164 -165	000 hours) (Priti • " "b • Eevation (m) 187.76 186.74 187.15 187.15 187.15 187.15 185.93 186.84 193.85 187.15 188.37	Demand (m³/day) 13 64 13 29 73 68 13 335 14	Hydraulc Grade (m) 213.24 212.64 212.64 212.70 213.43 212.43 212.43 212.35	Pressure (m H2O) 25 26 26 26 26 26 26 27 26 26 20 20 26 20 26 22 5
Cable: J Cable: J Cable	Search Inction Table (C 5 2 4 10 10 691 695 697 699 701 703 705 705 710 714 716	Label -157 -158 -159 -160 -161 -162 -163 -164 -165 -166	0.000 hours) (Pritit → T ₅ → Elevation (m) 187.76 186.54 187.15 187.15 187.15 187.15 186.84 193.85 187.15 188.37 188.37 186.23	Demand (m ^s /day) 13 64 13 29 73 68 13 335 14 102	Hydraulic Grade (m) 213.24 212.64 212.64 212.64 212.73 213.43 212.64 212.74	Pressure (m H2O) 25 26 26 26 26 27 26 20 20 26 25 26
Table: J Table: J Table	Search Inction Table (C S Z A A ID 691 695 697 699 701 703 706 710 714 716 719	urrent Time: () Label 3-157 1-158 1-159 1-160 1-161 1-162 1-163 1-164 1-165 1-165 1-165	000 hours) (Priti • To • Elevaton (m) 187.76 186.54 187.15 187.15 187.15 187.15 187.15 187.15 188.37 188.37 188.34 193.25 188.34 193.25 188.34 193.25 188.34 193.25 188.34 193.25 188.34 193.25 193.	Demand (m²/day) 13 64 13 29 73 68 13 335 14 102 55	Hydraulc Grade (m) 213.24 212.64 212.61 212.03 212.64 212.70 213.43 212.35	Pressure (m H2O) 25 26 26 26 26 26 26 26 26 26 26 26 26 26
Table: J → C 57 58 59 60 61 62 63 64 65 66 65 66 66 67 68 69	Search unction Table (C 5 C 10 10 691 695 697 699 701 703 706 710 714 716 719 720 720	urrent Time: (Label 1-157 1-159 1-160 1-161 1-162 1-163 1-164 1-165 1-166 1-167 1-167 1-168	1,000 hours) (Pritit ↓ ♥ ♥ ↓ Etevation (m) 187.76 186.54 187.15 187.35 187.45 187.55 187.45 187.45 187.45 187.45 187.55 187.45 187.55 187.45 187.55 187.45 187.45 187.55 187.45 187.55 187.45 187.55 187.45 187.55 187.55 187.55 187.55 187.45 187.55	Demand (m*/day) 13 64 13 29 73 68 13 335 14 102 55 14	Hydraulic Grade (m) 213.24 212.64 212.64 212.74 212.30 213.43 212.43 212.44 212.74 212.30 213.45 212.74	Pressure (m H2O) 25 26 26 26 26 26 26 26 20 26 20 26 25 26 26 26 26 26 26 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26
CTable: J CTable: J	Search unction Table (C 5 C 4 4 10 691 695 697 706 710 714 716 719 722 722	urrent Time: 4 i	0000 hours) (Priti → T ₅ → Elevation (m) 187.76 186.54 187.15 187.15 187.15 187.15 187.15 187.15 187.31 188.37 186.34 187.45 187.45 187.45 187.45 187.45 186.24 186.24 186.24 186.24 186.25 187.45 187.45 186.24 186.24 186.24 186.24 186.25 187.45	Model 1.wtg) Demand (m*/day) 13 644 13 29 73 68 13 335 14 102 55 14 102 55 14 15 56 15 15 15 15 14 15 15 15	Hydraulc Grade (m) 213.24 212.64 212.64 212.70 213.43 212.43 212.43 212.24 212.33 212.74 213.35 212.74 213.05 213.05 213.05 213.05	Pressure (m H2O) 25 26 26 26 26 20 20 20 20 20 20 20 20 20 20 20 20 20
CTable: J 57 58 59 60 60 61 62 63 64 66 66 66 66 66 66 66 66 66 66 66 66 70 71	Search anction Table (C) B (2) (2) (2) (2) (3) (2) (2) (2) (2) (4) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	urrent Time: (b) (c)	000 hours) (Prith ↓ Fb, ↓ Evaton (m) 187.76 186.54 187.15 197.15 197.15 197.15 197.15 197.15 197.15 197.15 197.	Model 1.wg) Demand (m*/day) 13 64 13 30 68 13 335 14 102 55 14 115 59 14	Hydraulc Grade (m) 2113.24 212.64 212.64 212.74 212.33 212.81 213.35 212.44 213.35 212.44 213.35 212.47 213.35 213.05 213.05 212.77 212.76	Pressure (m H2O) 255 266 266 266 266 266 266 266 266 266
Image: Constraint of the state of	Search unction Table (C) (2) (4) (1) (4) <	urrent Time: (Label 1-157 1-158 1-159 1-161 1-161 1-162 1-163 1-164 1-165 1-165 1-165 1-165 1-165 1-165 1-169 1-170 1-170 1-171 1-172	0.00 hours) (Prittie	Model 1.wtg) Demand (m*/day) 103 64 133 29 733 66 133 335 14 102 55 14 115 59 14 45	Pydrauk Grade (m) 2213.24 222.64 222.81 221.03 222.64 222.81 221.03 212.81 212.70 212.33 212.24 213.35 212.21 213.05 213.05 212.27 212.27 212.27 212.340 213.40	Pressure (m 100) 25 26 26 26 26 27 26 26 26 26 26 26 26 26 26 26 26 26 26
C C Table: J J 577 558 559 560 551 566 565 566 566 566 566 569 770 771 772 723	Search anction Table (C) S U	urrent Time: (Label 3-157 1-158 3-161 1-162 1-163 1-164 1-165 1-164 1-165 1-164 1-165 1-164 1-169 1-169 1-169 1-169 1-170 1-171 1-172 1-172 1-173	0.000 hours) (Priti No. ■ 15, 15, 15, 15, 15, 15, 15, 15, 15, 15,	Model 1.wtg) Demand (m*/day) 133 64 13 29 73 68 13 335 14 102 55 14 115 59 14 45 19 14 45 59 14	Hydrauk Grade (m) 211.2.44 212.64 212.64 212.61 212.64 212.61 212.63 212.64 212.61 212.63 212.64 212.61 212.63 212.61 213.63 212.76 213.05 212.77 212.76 212.30 212.340 212.340	Pressure (m H2O) 25 26 26 26 26 26 26 26 26 26 26 26 26 26
Table: J J → C 57 58 59 60 61 62 63 64 65 66 66 66 66 67 70 71 72 73 74	Search unction Table (C) IZ Q M ID ID ID ID 6091 6092 701 703 7006 710 714 716 719 7220 7223 7220 7220 7223 7227 7227 727 7279 731	urrent Time: (Label)-157)-158)-159)-160)-161)-163)-164)-165)-164)-165)-164)-166)-166)-170)-170)-170)-171)-172	0.000 hours (Pritis → 1%, - 1\%, -	Model 1.wtg)	Hydrauk Grade (m) 213.34 212.64 212.84 212.81 213.03 212.64 212.81 212.84 212.81 212.84 213.03 212.84 213.05 210.05 210.05 210.05 210.05 210.05 210.05 210.05 210.05 210.05 210.05 210.05 210.05 210.05 210.05 210.0	Pressure (m 100) 25 26 26 26 26 26 26 26 26 26 26 26 26 26
C C C C C C C C C C C C C C C C C	Search unction Table (CL S □ 2 0 0 0 0 091 0 0 095 0 0 095 0 097 0 099 0 091 0 095 0 097 0 099 0 091 0 091 0 095 0 097 0 099 0 091 0 091 0 091 0 095 0 097 0 097 0 099 0 097 0 099 0 097 0 099 0 090 0 0 0 0 0 0 0 0 0 0 0 0 0 0	urrent Time: t Label 3-157 3-158 3-159 3-160 3-164 3-164 3-165 3-164 3-165 3-164 3-165 3-164 3-165 3-164 3-165 3-164 3-165 3-164 3-165 3-164 3-165 3-164 3-165 3-164 3-165 3-164 3-165 3-164 3-165 3-164 3-165 3-164 3-165 3-164 3-165 3-166 3-165 3-166 3-165 3-166 3-167 3-166 3-166 3-167 3-166 3-167 3-166 3-167 3-166 3-167 3-166 3-167 3-166 3-167 3-166 3-167 3-166 3-167 3-166 3-167 3-166 3-167 3-176 3-176 3-176 3-176 3-177 3-176 3-1777 3-1777 3-1777 3-1777 3-1777 3-1777 3-1777	0.000 hours) (Priti → F ₀ → Ewaton (m) 187.76 186.715 187.15 187.15 185.13 186.23 187.45 186.84 196.64 187.45 186.44 187.45	Control Contro	Hydrauk: Grade (m) 213,24 212,81 213,64 212,81 213,64 212,81 213,64 212,81 213,64 213,81 21,91 213,8	Pressure (m H2O) 25 26 26 26 26 26 26 26 26 26 26 26 26 26
C C C C C C C C C C C C C C C C C C C	. Search unction Table (C. 5 2 ● ● 4 10 691 699 701 703 706 710 714 716 719 722 723 726 727 729 731 732	urrent Time: (↓ ↓ ↓ ↓ ↓ ↓ Label 3-157 3-158 3-159 3-160 3-160 3-160 3-160 3-166 3-167 3-165 3-166 3-166 3-165 3-166 3-165 3-166 3-167 3-165 3-166 3-167 3-169 3-169 3-169 3-169 3-169 3-169 3-169 3-169 3-169 3-169 3-169 3-169 3-169 3-169 3-169 3-169 3-169 3-169 3-169 3-170 3-171 3-172 3-175	0.000 hours) (Pritis ■ 10,000 hours) (Pritis ■ 10,76 1186,74 1187,75 1187,15 1187,15 1187,15 1187,15 1187,45	Model 1.wtg)	Image: Project and the second secon	Pressure (m H2O) 25 26 26 26 26 26 26 26 26 26 26 26 26 26
C C C C C C C C C C C C C C C C C C C	. Search unction Table (C)	urrent Time: (Label 3-157 1-158 3-157 1-158 3-160 3-160 3-163 3-164 3-165 3-166 3-167 3-166 3-167 3-1777 3-1777 3-1777 3-1777 3-1777 3-1777 3-1777	0.000 hours) (Prits) ■ 「Pi, ● Eleventon (m) 187.76 186.74 187.15 187.15 187.15 187.15 187.15 187.15 187.15 186.23 187.45 186.44 186.4	Control (m*/day) Model 1.wtg) Demand (m*/day) 33 34 33 33 33 33 33 33 33 34 44 14 15 59 19 14 44 44 42 42 42 42 44 44 44 4	Hydrauk: Grade (m) 212.54 212.64 212.64 212.64 212.61 212.61 212.62 212.61 212.63 212.61 212.64 212.61 212.61 212.61 212.62 212.61 212.62 212.61 213.05 212.76 213.40 213.64 213.64 213.64 213.64 213.64 213.64 213.64 213.64 213.64 213.64 213.64 213.64 213.64 213.64 213.64	Pressure (m H00) 25 26 26 26 26 26 26 26 26 26 26 26 26 26
C C C C C C C C C C C C C C C C C C C	Search anction Table (C. anct	urrent Time: (Label L	0.000 hours) (Print	Model 1.wtg) Demand (m/dw) 13 64 13 64 13 305 14 102 55 14 11 15 15 14 14 14 14 14 14 14 14 14 14 14 14 14	Product Control (1997)	Pressure (m H2O) 25 26 26 26 26 26 26 26 26 26 26 26 26 26
C C C C C C C C C C C C C C C C C C C	Search unction Table (C) ∞ # 10 ∞ # # 10 ∞ # # 10 ∞ # # 10 ∞ # # 001 0 605 \$ 0701 0 701 \$ 0702 710 714 \$ 7100 714 716 \$ 7202 7223 \$ \$ 7202 7223 \$ \$ 7202 7224 \$ \$ 7202 7224 \$ \$ 7203 7202 \$ \$ 7204 722 \$ \$ 7205 726 \$ \$ 7204 725 \$ \$ 7284 7 \$ \$ 7284 7 \$ \$ 7284 7 \$ \$ 7	urrent Time: (Label 1-157 1-158 1-159 1-159 1-160 1-161 1-162 1-163 1-164 1-164 1-165 1-164 1-164 1-166 1-167 1-170 1-171 1-172 1-173 1-174 1-175 1-176 1-177 1-178	0.000 hours) (Prits • [Pi], • [• [Pi], • [187.76 186.74 187.15 187.15 187.15 187.15 187.15 187.15 186.23 187.45 186.44 186.44 186.44 186.44 186.44 186.44 186.44 186.44 187.45 187.45 197.45 197.4	Model 1.wg) Demand (mi/day) (iii/day) (iii/day	Production of the second secon	Pressure (m 1202) 225 226 226 226 226 226 226 226 226 226
C Carlor Control Cont	Search unction Table C/C i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i	urrent Time: () Label 1-157 1-158 1-159 1-159 1-160 1-161 1-162 1-163 1-164 1-166 1-166 1-167 1-169 1-171 1-172 1-175 1-175 1-175 1-175 1-179 1-179 1-181	0.000 hours) (Print	Model 1.wtg) Demand (mi/day) (mi/day) (13 64 13 30 66 13 305 6 14 162 16 16 16 16 16 16 16 16 16 16 16 16 16	Hydraukc Grade (m) 23.24 22.264 22.264 22.264 22.264 22.264 22.264 22.264 22.264 22.264 22.264 22.264 22.264 22.264 22.264 22.264 22.277 22.366 22.340 22.340 22.341 22.360 22.341 22.340 22.342 22.341 22.341 22.341	Pressure (m H2O) 25 26 26 26 26 26 26 26 26 26 26 26 26 26
C C Table: J J 57 55 55 55 55 55 55 55 55 55 55 55 55	Search Inction Table (C) ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID <thid< th=""> ID <thid< th=""></thid<></thid<>	urrent Time: (Label 1-157 1-158 1-159 1-159 1-160 1-161 1-161 1-162 1-163 1-164 1-165 1-165 1-165 1-164 1-165 1-165 1-164 1-165 1-165 1-164 1-165 1-165 1-167 1-172 1-173 1-172 1-174 1-175 1-178 1-178 1-178 1-178 1-180 1-182	0.000 hours) (Prits ■ 「Fig. + 187.76 187.76 186.74 187.75 186.73 187.75 186.73 187.75 186.73 187.75 186.73 187.75 186.74 186.84 197.45 187.75 186.74 186.84 197.45 187.75 186.84 197.45 197.4	Model 1.wg) Demand (mr)/day) (13 64 13 64 19 9 9 3 6 13 3 3 5 5 14 105 5 9 14 4 4 4 4 4 4 3 7 7 1 3 6 6	Hydrauk: Grade (m) 213.24 212.64 212.81 212.81 212.81 212.81 212.81 212.81 212.81 212.81 212.81 212.81 213.82 212.81 213.82 212.74 213.64 213.64 213.40 213.40 213.40 213.40 213.40 213.41 213.42 213.41 213.42 213.41 213.41 213.42 213.41 213.42 213.41 213.42 213.42 213.42 213.42 213.42 213.42 213.42 213.42	Pressure (m 1202) 25 26 26 26 26 26 26 26 26 26 26 26 26 26
C C C C C C C C C C C C C C C C C C C	Search unction Table C/C i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i	urrent Time: 0	0.000 hours) (Print	Model 1.vtg) Demand (m*/day) 13 44 45 43 43 43 44 43 59 14 45 59 14 45 59 14 45 59 14 45 59 14 45 59 14 45 59 14 45 59 15 59 14 45 59 15 59 14 45 59 15 59 14 45 59 15 59 14 45 15 59 14 45 15 59 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 15 59 14 45 15 59 14 14 14 14 14 14 14 1	Hydraukc Grade (m) 23.24 212.64 212.64 212.64 212.64 212.64 212.64 212.64 212.64 212.64 212.63 212.64 212.77 213.63 213.64 213.65 213.61 213.62 213.62 213.62 213.62 213.62 213.61	Pressure (m1620) 25 26 26 26 26 26 26 26 26 26 26 26 26 26
C Carlos J. J. Constraints of the second seco	Search Inction Table (C) ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID ID <thid< th=""> ID</thid<>	urrent Time: €	0.000 hours) (Prits ■ (F) 187.76 187.76 187.75 187.75 186.75 187.75 186.73 187.45 1	Model 1.wg) Demand (mr).day) (mr).day (mr).	Pydraukc Grade (m) 213.24 213.64 213.64 213.64 213.64 212.61 213.64 212.70 213.61 212.81 213.62 213.63 212.74 213.61 213.61 213.72 213.76 213.71 213.72 213.74 213.61 213.61 213.72 213.74 213.74 213.74 213.74 213.74 213.74 213.74 213.74 213.74 213.74 213.74 213.75 213.74 213.74 213.74 213.74 213.74 213.75 213.74 213.75 213.76 213.71 213.71	Pressure (m1202) 255 256 266 266 266 266 266 266 266 266
C C C C C C C C C C C C C C C C C C C	Search unction Table C/C i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i	urrent Time: 0 Label 1-157 1-156 1-157 1-158 1-159 1-159 1-163 1-173 1-174 1-173 1-173 1-174 1-173 1-174 1-173 1-174 1-173 1-174 1-173 1-174 1-173 1-174 1-173 1-174 1-173 1-174 1-173 1-174 1-173 1-184	0.000 hours) (Print	Model 1.vtg) Demand (m*/day) 133 44 45 45 46 45 59 14 45 59 14 45 59 14 45 59 14 45 59 14 45 59 14 45 59 14 45 59 15 59 14 45 59 14 45 59 15 59 14 45 15 59 14 45 15 59 14 45 15 59 15 59 14 45 15 59 15 59 15 59 14 45 15 59 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 16 16 19 19 19 19 19 1	Hydraukc Grade (m) 23.24 212.64 212.64 212.64 212.64 212.64 212.64 212.64 212.64 212.64 212.63 212.64 212.77 212.64 213.41 213.42 213.41 213.40 213.40 213.41 213.42 213.43 213.44 213.42 213.43 213.44 213.42 213.43 213.44 213.45 213.46 213.41 213.42 213.43 213.43 213.43 213.43 213.43 213.43 213.43 213.43 213.43 213.44 213.45 213.46	Pressure (m1620) 25 26 26 26 26 26 26 26 26 26 26 26 26 26
Image: Constraint of the second sec	Search Inction Table (C) 0 0 0 0	urrent Time: €	0.000 hours) (Prits ■ (Pi) 187.75 187.75 187.75 187.75 186.74 193.85 187.75 186.74 193.85 187.75 186.73 187.45 187.45 187.45 187.45 187.45 186.44 193.45 187.45 186.44 193.45 186.44 193.45 186.44 193.45 186.44 193.45 186.44 193.45 186.44 193.45 186.44 193.45 186.44 193.45 186.44 193.45 186.44 193.45 195.45	Model 1.wg) Demand (m*)4a9 13 64 13 13 64 13 13 35 14 102 55 14 105 14 115 5 14 14 37 7 11 36 16 16 16 16 16 16 16 16	Pydraukc Grade (m) 213.24 213.64 213.64 213.64 213.64 212.64 223.63 222.74 213.64 212.75 213.77 213.76 213.77 213.76 213.77 213.76 213.77 213.76 213.72 213.74 213.81 213.92 213.92 213.93 213.94	Pressure (m 1202) 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26
C Carlotter in the second secon	Search Inction Table C/C i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i	urrent Time: 1	000 hours (Print	Model 1.vtg) Demand (m*/day) 133 44 45 45 46 47 30 315 105 59 14 45 59 14 45 32 33 33 59 14 45 59 14 45 59 14 45 59 14 45 59 14 45 59 14 45 59 14 45 59 14 45 59 14 45 59 15 59 14 45 45 59 14 45 15 59 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 14 45 15 59 16 19 19 19 19 19 19 1	Hydraukc Grade (m) 23.24 212.64 212.64 212.64 212.64 212.64 212.64 212.64 212.64 212.64 212.64 212.61 212.62 212.63 212.64 212.77 212.64 213.61 213.61 213.62 213.61 213.62 213.63 213.64 213.63 213.64 213.64 213.64 213.64 213.64 213.64 213.64 213.64 213.64 213.64 213.64 213.65 213.64 213.65 213.64 213.65 213.64 213.65 213.65 213.65 213.65	Pressure (m1620) 25 26 26 26 26 26 26 26 26 26 26 26 26 26
C C C	Search unction Table (C) 0 0 0 0 10 0 0 0 0001 0 0 0 001 0 0 0 001 0 0 0 001 0 0 0 001 0 0 0 001 0 0 0 001 0 0 0 002 0 0 0 002 0 0 0 002 0 0 0 003 0 0 0 0 004 0 0 0 0 005 0 0 0 0 004 0 0 0 0 005 0 0 0 0 004 0 0 0 0 005 0	urrent Time: € Label 1-157 1-157 1-158 1-157 1-158 1-160 1-163 1-164 1-165 1-164 1-165 1-165 1-167 1-167 1-178 1-179 1-173 1-180 1-185	0.000 hours) (Priti ■ (Pi) = (Pi) 187,55 187,55 187,15 186,24 193,45 187,15 186,24 193,45 187,15 186,23 187,45 186,24 193,45 187,45 186,24 193,45 186,24 193,45 186,24 193,45 186,24 193,45 186,24 193,45 186,24 193,45 186,24 193,45 194,45 195,45	Model 1.wtg) Demand (m*).day 43 43 43 43 43 43 43 43 44 44 44 44 44	Pydraukc Grade (m) 213.24 213.64 213.64 213.64 213.64 213.64 221.61 221.62 221.63 222.70 223.63 212.74 213.64 212.72 213.77 213.76 213.77 213.76 213.76 213.77 213.76 213.77 213.76 213.72 213.74	Pressure (m 1202) 255 266 266 266 266 266 266 266 266 266
C Cable: J: J: Cable: J: Cable: J: Cable: Cable	Search Inction Table C/C i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i	urrent Time: 1 	0.000 hours) (Print	Model 1.vtg) January (m*/day) January (m*/day)	Hydraukc Grade (m) 213.48 212.64 212.64 212.64 212.64 212.64 212.64 212.64 212.64 212.64 212.64 213.63 213.63 213.64 213.65 213.64 213.65 213.66 213.61 213.62 213.63 213.64	Pressure (m H2O) 25 26 26 26 26 26 26 26 26 26 26 26 26 26
CC Control of the second	Search unction Table (C) i i i i i i i i i i i i i i i i i i i i	urrent Time: €	0.000 hours) (Pritis ■ 「■」、 ■ 「■ 「■ 」 ■ 「■ 「■ 「■ 」 ■ 「■ 「■ 「■ 「■ 」 ■ 「■ 「■ 「■ 「■ 「■ 「■ 」 ■ 「■ 「■ 「■ 「■ 」 ■ 「■ 「■ 「■ 「■ 」 ■ 「■ 「■ 」 ■ 「■ 「■ 」 ■ 「■ 「■ 」 ■ 「■ 「■ 」 ■ 「■ 」 ■ 「■ 」 ■ 「■ 」 ■ 「■ 」 ■ 「■ 」 ■ 「■ 」 ■ 「■ 」 ■ 「■ 」 ■ 「■ 」 ■ 「■ 」 ■ 「■ 」 ■ 「■ 」 ■ 「■ 」 ■ 「■ ■ 」 ■ ■ ■ ■	Model 1.wtg) Demand (mr),(ab)	Pydraukc Grade (m) 213.24 223.01 223.02 222.02 223.03 222.04 222.02 223.03 222.04 223.03 223.04 223.02 213.03 213.04 213.05 213.06 213.07 213.08 223.04 223.04 223.04 223.04 223.04 213.04 213.04 223.04 223.04 213.04 213.04 213.04 213.04 213.04 213.04 213.05 213.04 213.04 213.05 213.04 213.05 213.05 213.06 213.07 213.08 213.08 213.08 213.08	Pressure (m 120) 25 26
C (Table: J. J. 57 58 59 59 59 59 59 59 59 59 59 59	Search Inction Table C/C i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i	urrent Time: 1 	0.000 hours) (Print	Model 1.vtg) Demand (m*/day) 133 44 45 45 46 47 30 315 105 59 14 45 59 14 45 33 33 33 35 15 59 14 45 39 30 30 30 30 30 30 30	Hydraukc Grade (m) 21244 21204 21204 21204 21204 21204 21202 21202 21202 21202 21203 21204 21204 21204 21204 21204 21305 21204 21304 21304 21305 21306 21308 21309 21304 21305 21306 21307 21308 21309 21309 21309 21301 21302 21303 21304 21305 21306 21307 21308 21309 21309 21301 21302 21303 21304 21305	Pressure 25 26 <t< td=""></t<>
C Table: J J Table:	Search unction Table (C) i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i	urrent Time: ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	0.000 hours) (Priti ■ 「 Pi, ● 185,54 186,54 187,15 187,15 186,74 186,73 186,74 186,73 186,73 187,75 186,73 187,75 186,73 187,75 186,73 187,45 186,74 186,74 186,74 186,74 186,74 186,74 186,74 186,74 186,75 187,75 186,74 186,74 186,74 186,74 186,75 187,75 186,74 186,74 186,74 186,74 186,74 186,75 187,75 186,74 186,84 186,8	Model 1.wig) Model 1.wig) Demand (mi,1day) 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Pydraukc Grade (m) 212.364 212.364 212.364 212.364 212.364 212.364 212.364 212.364 212.364 212.364 212.361 212.374 213.361 213.361 213.361 213.361 213.361 213.361 213.361 213.361 213.361 213.361 213.361 213.362 213.361 213.362 213.362 213.362 213.362 213.362 213.362 213.362 213.362 213.362 213.362 213.362 213.362 213.362 213.362 213.362 213.362 213.362 213.363 213.362 213.363	Pressure (m H20) 25 26 27 28 29 20 21
7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 5 6 7 8 9 0 1 2 3 4 5 5 6 7 8 9 0 1 2 3 4 5 5 6 7 8 9 0 1 2 3 4 5 5 5 5 5 5	Search Inction Table C/C i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i	urrent Time: 1 Label 1-157 1-158 1-157 1-158 1-161 1-161 1-164 1-172 1-178 1-178 1-178 1-178 1-178 1-178 1-184 1-194	0.000 hours) (Priti ■ 「Pi」 ● 187.76 186.74 187.15 187.15 187.15 187.15 187.15 187.15 187.15 187.15 187.15 187.15 187.15 187.45 187.45 187.45 186.44 187.45 186.44 187.45 186.44 187.45 186.44 187.45 186.44 187.45 186.44 187.45 186.44 187.45 186.44 187.45 186.44 187.45 186.44 187.45 186.44 187.45 186.44 197.55 186.44 187.45 186.44 197.55 187.45	Model 1.wg) Demand (mr/day) 13 64 13 3 64 13 3 7 7 9 0 3 3 3 3 3 3 3 3 3 3 3 3 3 5 4 4 4 4 4 4	Production Crade (m) 213.24 213.24 213.24 213.24 213.20 213.20 213.20 213.20 213.20 213.20 213.20 213.20 213.20 213.30 213.40 213.40 213.40 213.40 213.41 213.41 213.41 213.42 213.41 213.41 213.41 213.41 213.41 213.41 213.41 213.41 213.41 213.42 213.42 213.42 213.42 213.42 213.42 213.42 213.42 213.42 213.42 213.42 213.42 213.42 213.42	Pressure (m 120) 25 26
	Search Inction Table (C) i i i i i i i i i i i i i i i i i i i i i i i i i i i i	urrent Time: €	000 hours (Priti •	Model 1.wtg) Mo	Pydrauk: Crode (m) 212.44 22.24 22.24 22.24 22.24 22.24 22.24 22.24 22.24 22.24 22.24 22.24 22.24 21.36 21.36 22.34 22.34 22.34 22.34 22.34 22.34 22.34 22.34 22.34 22.34 22.34 22.34 22.34 22.34 22.34 22.34 22.34 22.34 22.36 22.36 22.32 22.32 22.34 22.34 22.35 22.36 22.32 23.32 23.32 23.32 23.32 23.34	Ressure (m H2O) 25 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26

FlexTable: Junction Table (Current Time: 0.000 hours) (Priti Model 1.wtg

	ID Label	Elevation	Demand	Grade	Pressure	
75: 1-106	775 1-106	(m)	(m°/day)	(m)	(m H2O)	
76: J·197	776 3-197	185.93	103	212.65	27	
8: J-198	778 J-198 780 J-199	187.76	16	213.07	25	
3: 3-200	783 3-200	180.54	16	212.76	25	
5: 3-201	785 3-201	186.84	37	213.03	26	
: 3-203	789 3-203	189.59	17	213.09	25	
: J-204	791 3-204	188.06	76	212.97	25	
: J-205	792 J-205	187.76	62	212.97 212.68	25	
: J-207	798 3-207	188.06	18	213.05	25	
: J-208 : J-209	799 J-208 801 J-209	187.45	92 17	213.05	26	
: J-210	803 3-210	186.54	18	212.67	26	
: 3-211	808 3-211	186.84	18	213.05	26	
: J-212 : J-213	811 J-212 813 J-213	188.67	18	213.07 213.14	24	
i: J-214	816 3-214	189.28	45	213.38	24	
8: J-215	818 J-215 873 1-216	188.37	165	213.40	25	
5: J-217	825 3-217	187.45	38	213.21	26	
7: J-218	827 3-218	185.93	38	212.64	27	
1: J-219 2: J-220	831 3-219 832 3-220	185.32	39	212.67	27	
4: J-221	834 J-221	186.54	19	212.69	26	
8: J-222 0: J-223	838 3-222	191.72	74	213.42	22	
2: J-224	842 3-224	188.37	20	212.80	24	
4: 3-225	844 3-225	185.01	20	212.67	28	
8: J-220	848 3-227	188.37	121	212.60	24	
1: J-228	851 J-228	187.15	76	213.00	26	
6: J-229 7: J-230	856 J-229 857 1-230	189.28	94	213.26	24	
3: J-231	863 J-231	186.23	21	212.76	26	
5: J-232	865 3-232	186.54	43	212.64	26	
72: J-234	872 J-233	186.84	44	212.77 212.70	26	
74- 1-725	874 1,735	19715	77	212.68	25	
	opinited		-		—	
Q	Search		C _	😍 🔳	···· 😌	
FlexTable: Jur	nction Table (Current Time: 0	0.000 hours) (Priti M	Model 1.wtg)			- 0
5 D - 13	🗹 🔍 👭 🗎 🕶 🛱	ā. - ₩5				
	ID.	Elevation	Demand	Hydraulic	Pressure	
	Label	(m)	(ms/day)	(m)	(m H2O)	
74: J-235	874 3-235	187.15	22	212.68	25	
79: J-237	879 J-236	186.54	23	212.68	26	
82: J-238	882 3-238	185.62	23	212.66	27	
5+: J-239 36: J-240	884 J-239 886 J-240	186.23	90	213.00	27	
89: J-241	889 3-241	186.23	24	212.74	26	
91: 3-242	891 J-242 894 1-243	189.28	197	213.28	24	
96: 3-244	896 3-244	187.45	35	213.01	25	
98: 3-245	898 J-245	187.15	24	212.97	26	
00: 3-246	900 J-246 902 J-247	188.37	25	213.10 212.98	25	
H: J-248	904 3-248	186.84	25	212.68	26	
6: J-249 8: J-250	906 3-249	186.23	25	212.79	27	
10: 3-251	910 J-251	187.15	25	213.33	26	
12: 3-252	912 J-252	185.32	52	212.68	27	
24: 3-253	916 J-253 924 J-254	186.54	36	212.72	26	
25: 3-255	925 J-255	186.54	27	212.66	26	
27: 3-256	927 3-256	188.67	89	213.34	25	
29: 3-257	929 J-257	186.84	245	213.48	26	
36: J-259	936 J-259	187.15	186	213.02	26	
39: J-260 12: J-261	939 J-260 942 J-261	193.55	95	213.45	20	
49: J-262	949 J-262	187.76	28	213.14	25	
51: J-263 57: 1-264	951 J-263	202.08	74	213.48	11	
59: 3-265	337 3-204	196 22	50	212.00	27	
	959 3-265	186.23 185.93	105			
50: J-266	959 J-265 960 J-266	186.23 185.93 185.62	105	212.77	27	
60: J-266 65: J-267 67: J-268	959 3-265 960 3-266 965 3-267 967 3-268	186.23 185.93 185.62 188.67 188.98	105 100 30 31	212.77 213.24 213.23	27 25 24	
50: J-266 55: J-267 57: J-268 73: J-269	959 3-265 960 3-266 965 3-267 967 3-268 973 3-269	186.23 185.93 185.62 188.67 188.98 195.68	105 100 30 31 141	212.77 213.24 213.23 213.46	27 25 24 18	
60: J-266 65: J-267 67: J-268 73: J-269 75: J-270 77: J-271	959 3-265 960 3-266 965 3-267 967 3-268 973 3-269 975 3-270 977 3-271	186.23 185.93 185.62 188.67 188.98 195.68 189.28	105 100 30 31 141 34 34	212.77 213.24 213.23 213.46 213.25 213.25	27 25 24 18 24 25	
50: 3-266 55: 3-267 57: 3-268 73: 3-269 75: 3-270 77: 3-271 82: 3-272	959 J-265 960 J-266 965 J-267 J-268 973 J-269 973 J-270 977 J-271 982 J-272	186.23 185.93 185.62 188.67 188.98 195.68 189.28 189.28 188.06 186.54	105 100 30 31 141 34 34 37	212.77 213.24 213.23 213.46 213.25 213.24 212.74	27 25 24 18 24 25 26	
660: 3-266 165: 3-267 167: 3-268 173: 3-269 175: 3-270 182: 3-271 182: 3-272 194: 3-272 194: 3-272	959 J-265 960 J-266 965 J-267 967 J-268 973 J-269 975 J-270 977 J-271 982 J-272 984 J-273 984 J-273	186.23 185.93 185.62 188.67 188.98 195.68 189.28 188.06 186.23 196.54	105 100 30 31 141 34 34 37 37 37	212.77 213.24 213.23 213.46 213.25 213.24 212.74 212.74 212.78	27 25 24 18 24 25 26 26 26	
160: 3-266 165: 3-267 167: 3-268 173: 3-269 175: 3-270 182: 3-271 182: 3-272 184: 3-273 190 of 290 element	959 3-265 960 3-266 965 3-267 973 3-269 973 3-269 977 3-270 977 3-271 982 3-272 984 3-273 984 3-273 984 3-273 984 3-273	186.23 185.93 185.62 188.67 188.98 195.68 189.28 188.06 186.54 186.23 186.23	105 100 30 31 141 34 34 37 37 37	212.77 213.24 213.23 213.46 213.25 213.24 212.74 212.74 212.78 212.73	27 25 24 18 24 25 26 26 26 27	
660: 3-266 651: 3-267 167: 3-268 173: 3-269 175: 3-270 177: 3-271 182: 3-272 184: 3-273 184: 3-274 184: 3-273 184: 3-274 184: 3	959 3-265 960 3-266 965 3-267 967 3-268 973 3-269 975 3-270 977 3-271 962 3-272 984 3-273 984 3-273 985 3-267 977 3-271 987 3-	186.23 185.93 185.62 188.67 188.98 195.68 189.28 188.06 186.54 186.54 186.23 195.03	105 100 30 31 141 34 37 37 37 37	212.77 213.24 213.23 213.46 213.25 213.24 212.74 212.78 212.78 212.73	27 25 24 18 24 25 26 26 26 26 27	
60: 1-266 65: 1-267 65: 1-268 73: 1-269 75: 1-270 77: 1-271 82: 1-272 84: 1-273 84: 1-273 84: 1-273 84: 1-274 80 of 290 element	959 1-265 960 1-266 965 1-267 973 1-268 973 1-269 975 1-270 977 1-221 982 1-272 984 1-273 989 1-265 977 1-268 977 1-271 977 1-271 977 1-271 989 1-273 989 1-273 999 1-275 999 1-	186.23 185.93 185.62 188.67 188.98 195.68 189.28 189.06 186.54 186.54 186.54 186.54	105 100 30 31 141 34 34 37 37 37 37	212.77 213.24 213.23 213.46 213.25 213.24 212.74 212.78 212.78 212.78	27 25 24 18 24 25 26 26 26 26 27	• • • • • • • • • • • • • • • • • • •
00: 1-266 65: 1-267 65: 1-268 73: 1-269 75: 1-270 77: 1-271 82: 1-272 84: 1-273 84: 1-273 84: 1-274 10: 01/290 element	999 J-265 990 J-266 997 J-269 997 J-269 997 J-269 997 J-270 997 J-271 992 J-272 994 J-273 096 J-275 997 J-269 997 J-272 997 J-272 996 J-272 997 J-272 996 J-272 997 J-	186.23 185.62 188.67 188.68 199.28 188.06 186.54 186.54 186.54 186.54 186.54	105 100 30 31 141 34 34 37 37 37 37	212.77 213.24 213.23 213.46 213.25 213.24 212.74 212.78 212.78 212.78	27 25 24 18 25 26 26 26 26 27 27	• • • ✓ ENG @ • ● 18-0+2
90: 3-266 55: 3-267 75: 3-268 75: 3-269 75: 3-270 75: 3-270 75: 3-271 52: 3-272 14: 3-272	999 J265 990 J265 995 J267 997 J269 997 J269 997 J271 997 J271 994 J273 994 J273 994 J273 994 J273 994 J273 994 J273 994 J273 994 J273 994 J269 994 J265 994 J266 997 J276 997 J271 997 J271 996 J272 996 J272 996 J272 997 J271 997 J271 996 J273 997 J271 996 J273 996 J273 997 J273 996 J273 996 J273 996 J273 997 J273 996 J273 996 J273 997 J273 996 J273 997 J275 997 J275 997 J275 997 J275 J275 997 J275 997 J27	186.23 185.62 188.67 188.68 189.28 189.28 189.28 189.28 189.28 189.28 189.28 189.28 189.28 189.28 189.28 189.28 189.29 180.29 18	105 100 30 31 141 34 34 37 37 37 37	212.77 213.24 213.23 213.46 213.25 213.24 212.74 212.78 212.78 212.78	27 25 24 18 25 26 26 26 26 27 77	• • • • • • • • • • • • • • • • • • •
90: 3-266 35: 3-267 35: 3-267 37: 3-268 37: 3-269 37: 3-270 37: 3-271 32: 3-272 M: 3-272	999 J-265 990 J-266 995 J-267 997 J-269 973 J-269 975 J-270 997 J-271 996 J-273 996 J-266 997 J-269 997 J-270 997 J-270 997 J-271 996 J-272 996 J-273 996 J-273 997 J-273 996 J-273 996 J-273 997 J-273 996 J-273	186.23 185.62 188.67 188.98 195.64 189.28 188.06 186.54 186.54 186.52 186.53	105 100 30 31 141 34 34 37 37 37 37	212.77 213.24 213.23 213.46 213.25 213.24 212.74 212.74 212.78 213.23 213.24 212.78 213.23 213.24 212.78 213.23 213.24 21	27 25 24 18 24 25 26 26 26 37	• • • • • • • • • • • • • • • • • • •
90: 3-266 53: 3-267 57: 3-268 73: 3-269 75: 3-270 77: 3-271 82: 3-272 84: 3-273 84: 3-273	999 J265 990 J265 997 J267 997 J269 997 J269 997 J271 992 J272 994 J273 994 J273 994 J273 994 J273 994 J273 994 J273 994 J273 994 J273 994 J269 997 J271 994 J269 997 J271 996 J272 996 J272 997 J272 996 J272 996 J272 997 J272 996 J272 996 J272 996 J272 997 J272 997 J272 997 J272 997 J272 997 J272 996 J272 996 J272 996 J272 997 J272 996 J272 997 J272 996 J272 997	186.23 185.33 185.62 188.66 195.68 195.68 195.68 195.28 188.06 186.54 186.55 185.55 18	105 100 30 31 141 34 37 37 37 37 37 37 37 37 37 37 37 37 37	212.77 213.24 213.23 213.46 213.25 213.24 212.74 212.74 212.78 213.27 212.78	27 25 24 18 24 25 26 26 26 26	• • • • • • • • • • • • • • • • • • •
66: 1-266 65: 1-267 77: 1-268 77: 1-268 77: 1-268 77: 1-278 77: 1-271 77: 1-271 77: 1-271 80: 1-272 80: 1-272	999 J.265 990 J.266 995 J.267 997 J.269 997 J.270 997 J.271 992 J.272 994 J.273 994 J.273 997 J.273 994 J.273 994 J.273 994 J.273 994 J.273 994 J.273 995 J.273 994 J.273 994 J.273 995 J.273 996 J.273 997 J.273 996 J.273 997 J.273 997 J.273 997 J.273 997 J.273 996 J.273 997 J.273 996 J.273 997 J.273 997 J.273 997 J.273 996 J.273 997 J.273 996 J.273 996 J.273 997 J.275 997 J	186.23 185.63 185.62 188.66 188.96 199.28 199.28 199.28 199.28 199.28 199.29	105 100 30 31 141 34 37 37 37 37 37 40 37 40 37 40 37 40 40 40 40 40 40 40 40 40 40 40 40 40	212.77 213.24 213.23 213.46 213.25 213.24 212.78 212.78 212.78 212.78	27 25 24 18 24 25 26 26 37	
66: 3-266 65: 3-267 77: 3-268 77: 3-268 77: 3-268 77: 3-271 82: 3-272 82: 3-272 84: 3-273 84: 3-275 84: 3-275	999 J-265 990 J-266 997 J-266 997 J-269 977 J-269 979 J-273 979 J-273 979 J-273 974 J-273 975 J-273 977 J	186:3 185:62 188:69 195:66 199:28 188:06 189:28 188:06 186:54	105 100 30 31 141 34 34 37 37 37 37 97	212.77 213.24 213.23 213.46 213.34 213.47 212.78 113.77 212.78 113.77 212.78 212.78 212.78 212.78 212.77 212.27 212.27 212.27 212.27 212.27 213.24 212.24 212.24 212.24 212.24 212.24 213.24 212.24 213.24 212.24 212.24 212.24 212.24 212.24 212.24 212.24 212.24 212.24 21	27 25 24 18 25 26 26 26 27 77 27 27 27 27 27 27 24 26 26 26 27 27 24 24 24 24 24 24 25 26 26 26 27 24 24 24 24 24 24 24 24 24 24 24 24 24	• ■ • • • • • • • • • • • • • • • • • •
12: 1-252	999 J-265 990 J-2659 997 J-269 997 J-269 997 J-270 997 J-271 992 J-272 994 J-273 994 J-275	$\begin{array}{c} 186.23\\ 185.02\\ 185.62\\ 188.66\\ 188.96\\ 195.66\\ 189.28\\ 195.68\\ 195.62\\ 195.62\\ 195.28\\$	105 100 30 31 141 34 34 37 37 37 37 77 37 07 07 00 00 00 00 00 00 00 00 00 00 00	212.77 213.23 213.46 213.26 213.24 213.24 213.24 213.24 212.78 315.77 31	27 25 24 18 24 25 26 27 27 27 27 27 27 27	
66) - 266 67) - 266 67) - 268 77) - 268 78) - 279 77) - 279 78) - 279 79) - 279) - 279) - 279) - 279) - 279) - 279) - 279) - 279	999 J-265 990 J-266 997 J-266 997 J-267 997 J-270 997 J-271 996 J-272 996 J-273 996 J-273 997 J	185-23 185-52 185-62 186-67 186-67 186-66 189-28 199-28 199-2	105 100 30 31 141 34 37 37 37 37 27 Model 1.wtg) Demand (m*/day) 52 36	212.77 213.23 213.26 213.46 213.24 213.24 212.78 315.72 215.24 212.78 315.72 215.24 212.78 215.72 215.24 212.78 215.75 21	27 25 24 18 24 25 26 26 26 26 26 26 26 26 26 26 27 7 7 8 8 9 77 8 9 8 9 77 27 22 7 26	
66:)-266 65:)-267 77:)-268 77:)-268 77:)-271 82:)-279 82:)-272 84:)-273 84:)-273 84:)-273 84:)-273 12:)-252 12:)-252 14:)-253 14:)-253 14:)-254 15:)-255 15:)-254 15:)-255 15:)-254 15:)-255 15:]-255 15:]-255 15:]-255 15:]-255 15:]-255	999 J-265 990 J-266 997 J-266 997 J-269 977 J-269 979 J-273 979 J-273 984 J-273 984 J-273 984 J-273 984 J-273 984 J-273 8 displayed Search ID Label 912 J-253 916 J-253 926 J-254	185-23 185-32 185-62 185-62 186-67 186-7	105 100 30 31 34 34 37 37 37 37 37 37 37 37 37 0 0 0 0 0 0	212.77 213.24 213.23 213.25 213.25 213.25 213.25 213.25 213.27 212.74 212.76 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27 25 24 18 24 25 26 26 26 26 26 26 26 26 26 26 27 27 26 26 27 27 26 26 27 27 26 26 26 26 26 27 27 26 26 26 27 26 26 26 26 26 26 26 26 26 26 26 26 26	
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10: 1-266 10: 1-267 17: 1-264 17: 1-264 17: 1-264 17: 1-271 19: 2-272 19: 2-274 19: 2-274	980 J.365 980 J.365 980 J.366 987 J.369 997 J.320 997 J.321 984 J.323 984 J.323 984 J.323 984 J.323 984 J.323 984 J.323 985 J.324 987 J.324 987 J.325 988 J.324 992 J.325 992 J.325 992 J.325 992 J.325 993 J.360 994 J.325 995 J.326 996 J.326 997 J.326 998 J.327 998 J.327 998 J.327 998 J.327 998 J.327 998 J.328 1000 J.289 1001<	185-23 185-23 185-62 185-72 185-7	105 100 30 31 144 34 37 37 37 37 37 37 37 37 37 37	212.77 213.24 213.23 213.46 213.25 213.25 213.25 213.25 213.25 213.25 213.26 212.74 212.74 212.76 212.68 212.77 212.68 213.36 21	27 25 24 18 24 26 26 26 26 26 26 26 26 26 26 26 26 26	
Comparison of the second	990 J.265 990 J.265 997 J.266 997 J.269 997 J.270 992 J.272 994 J.273 ess J.373 ess J.374 ess J.375 ess J.374 ess J.375 ess J	185-23 185-32 185-62	105 100 30 31 144 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	212.77 213.24 213.23 213.46 213.25 213.25 213.25 213.25 213.25 213.26 213.27 212.76 212.66 212.66 213.34 213.46 213.46 213.46 213.26 213.26 213.26 213.26 213.26 213.26 213.26 213.26 213.26 213.27 213.26 213.27 213.26 213.26 213.26 213.27 213.26 21	27 28 24 30 26 26 26 27 27 26 26 26 26 26 26 26 26 26 26 26 26 26	
E - 2-66 E - 2-67 E - 2-72	999 J285 990 J285 997 J265 997 J27 997 J27 992 J27 994 J27 809 J27 994 J27 994 J27 994 J27 994 J27 994 J27 994 J27 994 J27 994 J27 994 J27 995 J27 995 J27 995 J25 995 J25 995 J25 995 J25 996 J25 996 J25 996 J25 997 J27 996 J25 997 J27 998 J26 998 J26 999 J27 999 J27 99	186-23 185-32 185-62 186-62 186-62 186-62 186-64 195-68 195-68 195-69 195-69 195-69 195-78 195-7	105 100 30 31 141 34 37 77 77 77 77 77 77 77 77 77 77 77 77	212.77 213.24 213.26 213.25 213.25 213.25 212.77 212.77 212.77 212.68 21	27 28 24 30 26 26 26 26 26 26 26 26 26 26 26 26 26	

• FLEX TABLE – PIPES

Flexi	Table:	Pine	Table	(Curre	nt Time:	0.000	hours)	(Priti	Model	1 wtg)
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	ID	Label	Length (Scaled) (m)	Start Node 4	Stop Node	Diameter (mm)	Material	Flow (Absolute) (m ^a /day)	Velocity (m/s)	Headloss Gradient (m/m)
400: 0 (Polylin	400	0 (Polyline)-338	3	J-1	J-2	150.0	Ductle Iron	257	0.17	0.000
109: 0 (Polylin	409	0 (Polyline)-302	3	J-1	3-2	150.0	Ductle Iron	234	0.15	0.000
146: 0 (Polylin	446	0 (Polyline)-297	4	J-1	3-28	150.0	Ductle Iron	1	0.00	0.000
854: 0 (Polylin	854	0 (Polyline)-301	63	J-1	J-186	300.0	Ductile Iron	2,870	0.47	0.001
403: 0 (Polylin	403	0 (Polyline)-214	1	3-3	3-4	300.0	Ductile Iron	1,140	0.19	0.000
504: 0 (Polylin	504	0 (Polyline)-215	11	3-4	3-65	300.0	Ductile Iron	1,136	0.19	0.000
406: 0 (Polylin	406	0 (Polyline)-304	1	3-5	3-6	150.0	Ductile Iron	22	0.01	0.000
438: 0 (Polylin	438	0 (Polyline)-303	3	J-5	3-1	152.4	Ductle Iron	3,479	2.21	0.032
1045: 0 (Polyli	1045	0 (Polyline)-362	277	3-6	3-286	150.0	Ductle Iron	116	0.08	0.000
410: 0 (Polylin	410	0 (Polvine)-144	2	3-7	3-8	150.0	Ductle Iron	229	0.15	0,000
962: 0 (Polylin	962	0 (Polyline)-176	90	1-7	3-203	250.0	Ductie Iron	193	0.05	0,000
a63: 0 (Polylin	962	0 (Poh/ine)-191	91	1.7	1,203	200.0	Ductie Iron	107	0.04	0.000
453: 0 (Pohdio	653	0 (Pohdpa)-167	31	1.0	1,139	150.0	Ductie Iron	218	0.04	0.000
412: 0 (Robdin	412	0 (Pohdpo) 105	31	1.0	110	150.0	Ductie Iron	210	0.14	0.000
1.7: O (Pohdio	413	o (Polyard)-195	20	10	3-10	152.4	Ductie Iron	147	0.09	0.000
10: 0 (Polylin	617	0 (Polyme)-196	28	3-9	3-14	300.0	Ducue Iron	465	0.08	0.000
sta: 0 (Polylin	619	u (Polyinė)-232	28	3-10	J-13	100.0	Ducue Iron	23	0.03	0.000
327: 0 (Polylin	627	u (Polyiné)-139	28	J-10	J-65	250.0	Ductie Iron	432	0.10	0.000
748: 0 (Polylin	748	0 (Polyline)-27	44	J-10	3-183	150.0	Ductie Iron	283	0.19	0.000
16: 0 (Polylin	416	0 (Polyline)-207	1	J-11	3-12	152.4	Ductle Iron	66	0.04	0.000
574: 0 (Polylin	574	0 (Polyline)-208	23	J-11	3-23	150.0	Ductle Iron	69	0.05	0.000
933: 0 (Polylin	933	0 (Polyline)-206	81	J-12	3-15	250.0	Ductle Iron	121	0.03	0.000
19: 0 (Polylin	419	0 (Polyline)-198	1	J-13	3-14	152.4	Ductile Iron	156	0.10	0.000
535: 0 (Polylin	535	0 (Polyline)-233	15	J-13	3-20	100.0	Ductle Iron	10	0.01	0.000
518: 0 (Polylin	618	0 (Polyline)-54	28	J-13	3-10	250.0	Ductle Iron	258	0.06	0.000
1034: 0 (Polyli	1034	0 (Polyline)-249	197	J-13	3-239	100.0	Ductle Iron	78	0.11	0.000
537: 0 (Polylin	537	0 (Polyline)-197	15	J-14	J-19	300.0	Ductle Iron	294	0.05	0.000
422: 0 (Polylin	422	0 (Polvine)-204	1	J-15	3-16	152.4	Ductle Iron	145	0.09	0.000
586: 0 (Polylin	586	0 (Polyline)-119	24	J-15	3-21	250.0	Ductle Iron	123	0.03	0.000
859: 0 (Polylin	859	0 (Polyline)-129	62	1-15	1-201	150.0	Ductie Iron	199	0.13	0.000
932: 0 (Polylin	932	0 (Polyline)-236	81	1-15	1.12	100.0	Ductie Iron	11	0.02	0.000
931: 0 (Polylin	931	0 (Poh/ine)-203	81	1-16	1.11	250.0	Ductie Iron	100	0.02	0.000
425: 0 (Pohdio	435	0 (Pohdpa)-142	01	1.17	1.19	152.4	Ductie Iron	822	0.52	0.000
425. 0 (Polylin	425	0 (Polyme)-142	2	3-17	3-10	152.4	Ducue Iron	822	0.52	0.002
445: 0 (Polylin	445	u (Porymé)-143	9	J-17	J+7	400.0	Ducue Iron	594	0.05	0.000
1057: 0 (Polyli	1057	u (Poryine)-141	653	J-17	J-54	300.0	Ductie Iron	731	0.12	0.000
707: 0 (Polylin	707	0 (Polyline)-154	39	J-18	3-102	150.0	Ductie Iron	287	0.19	0.000
428: 0 (Polylin	428	0 (Polyline)-199	2	J-19	3-20	250.0	Ductle Iron	106	0.03	0.000
588: 0 (Polylin	588	0 (Polyline)-200	24	J-19	3-22	250.0	Ductile Iron	174	0.04	0.000
536: 0 (Polylin	536	0 (Polyline)-118	15	J-20	J-13	250.0	Ductle Iron	112	0.03	0.000
584: 0 (Polylin	584	0 (Polyline)-234	24	J-20	3-21	100.0	Ductle Iron	16	0.02	0.000
431- 0 (Pohdin	431	0 (Dok/Ino)_201	1	1,01	1.77	157.4	Ductile Iron	76	0.05	0.000
372 of 372 elemen	its displayed									
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31: 0 (Polylin			Longth (Early d)			Diamotor		Flow	Malacity	Headloss
31: 0 (Polylin	ID	Label	(m)	Start Node 4	 Stop Node 	(mm)	Material	(Absolute) (m³/day)	(m/s)	Gradient (m/m)
	431 0	0 (Polyline)-201	1	J-21	3-22	152.4	Ductie Iron	76	0.05	0.000
85: 0 (Polylin	585 0	0 (Polyline)-120	24	3-21	3-20	250.0	Ductie Iron	184	0.04	0.000
S7: 0 (Porylin	587 0) (Polyline)-235	25	J-21	J-15	100.0	Ductie Iron	11	0.02	0.000
32 0 (Polyli	593 () (Polyine)-123	143	1-22	1-99	250.0	Ductie Iron	61	0.09	0.000
M: 0 (Polylin	434 ((Polyline)-202	24	1-22	3-16	152.4	Ductie Iron	285	0.02	0.000
3: 0 (Polylin	573 () (Polyline)-205	23	1-23	1-12	250.0	Ductie Iron	261	0.06	0.000
4: 0 (Polylin	804 0	0 (Polyline)-210	53	1-23	3-177	100.0	Ductie Iron	129	0.19	0,001
7: 0 (Polylin	437 () (Polvine)-52	1	1-24	1-23	152.4	Ductie Iron	357	0.23	0.000
9: 0 (Polylin	439 ((Polyine)-213	3	1.25	1.17	152.4	Ductie Iron	2.372	1.51	0.016
24: 0 (Polylin	524 () (Polyline)-70	13	1-25	1-42	400.0	Ductie Iron	5.187	0.48	0.001
41: 0 (Polylin	441 0	(Polyline)-333	15	1-26	1.27	150.0	Ductie Iron	71	0.05	0.000
4: 0 (Pobylin	444 () (Polyline)-335	3	1-26	1.27	100.0	Ductie Iron	29	0.05	0.000
47: 0 (Polylin	642 0	(Polyine)-344	26	1.27	1.122	100.0	Ductie Iron	12	0.04	0.000
42: 0 (Polylin 44: 0 (Robdin	644) (Polyine)-343	30	1-27	1.122	100.0	Ductie Iron	12	0.02	0.000
te: 0 (Polylin	440	(Polyline)-331	37	3-27	1.20	200.0	Ductie Iron	12	0.02	0.000
48. 0 (Polyini	1022	(Polyline)-201	4	3.29	1.000	500.0	Ductie Iron	3 (30	0.01	0.000
023: 0 (Polyli	1025	(Polyine)-307	160	3-30	3-222	6/5.0	Ductle Iron	7,670	0.25	0.000
1: 0 (Polylin	451 0	J (Polyline)-358	4	J-31	J-29	200.0	Ductie Iron	63	0.02	0.000
S. U (Polylin	453 (rolyine)-261	4	3-32	3-33	200.0	Ductie Iron	670	0.25	0.000
+5: 0 (Polylin	945 0) (Polyline)-212	84	J-32	J-61	300.0	Ductie Iron	2,828	0.46	0.001
3: 0 (Polylin	993 (0 (Polyline)-211	116	J-32	3-3	300.0	Ductie Iron	1,180	0.19	0.000
14: 0 (Polylin	914 (0 (Polyline)-72	78	J-33	J-78	200.0	Ductie Iron	457	0.17	0.000
71: 0 (Polylin	971 0	0 (Polyline)-63	169	J-33	3-208	150.0	Ductile Iron	128	0.08	0.000
56: 0 (Polylin	456 0	0 (Polyline)-179	5	J-34	3-35	200.0	Ductile Iron	873	0.32	0.001
52: 0 (Polylin	952 0	0 (Polyline)-180	86	J-35	3-62	200.0	Ductle Iron	635	0.23	0.000
59: 0 (Polylin	459 0	0 (Polyline)-50	5	J-36	3-37	150.0	Ductile Iron	71	0.05	0.000
50: 0 (Polylin	850 0	0 (Polyline)-51	60	3-37	J-228	150.0	Ductle Iron	328	0.21	0.000
62: 0 (Polylin	462 0	0 (Polyline)-272	6	J-38	J-39	150.0	Ductle Iron	230	0.15	0.000
018: 0 (Polyli	1018 0	0 (Polyline)-316	142	J-38	3-259	150.0	Ductle Iron	280	0.18	0.000
55: 0 (Polylin	955 0) (Polyline)-325	88	J-39	3-204	100.0	Ductle Iron	46	0.07	0.000
97: 0 (Polylin	997 0) (Polyline)-275	114	3-39	3-276	100.0	Ductie Iron	39	0.06	0.000
65: 0 (Polylin	465 (0 (Polyline)-182	6	3-40	3-41	152.4	Ductie Iron	535	0.34	0.001
68: 0 (Polylin	468 0) (Polyline)-217	7	3-40	3-41	152.4	Ductie Iron	499	0.32	0.001
15: 0 (Polylin	515 0) (Polyline)-184	13	3-40	3-72	150.0	Ductie Iron	308	0.20	0.000
17: 0 (Polylin	517 () (Polyline)-48	13	3-40	3-72	150.0	Ductie Iron	312	0.20	0.000
79: 0 (Polylin	979 0	(Polvine)-218	106	1-41	1-89	100.0	Ductie Iron	70	0.12	0.000
80: 0 (Polylic	980 0	(Polyline)-183	105	1-41	1.89	250.0	Ductie Iron	290	0.12	0.000
69: 0 (Polylin	460 0) (Poh/ine)-368	105	1.42	1.43	400.0	Ductie Iron	5 191	0.21	0.000
056: 0 (Pobd)	1056	(Polyme)-360	630	1.43	1.32	400.0	Ductie Iron	4.063	0.48	0.001
coor o (noivil	1056 0	2 (Folyme)-309	639	144	1.45	400.0	Ductio Iron	4,963	0.46	0.001
77° 0 (PAN/80	s displayed									
2 of 372 elemen Q FlexTable: Pip	Search e Table (Currer	nt Time: 0.000 hou	rs) (Priti Model 1.	wtg)	. 🔳 🤄	• 😪	•	00	Q 😐	
Constraint	Search e Table (Currer 8 C A	nt Time: 0.000 hou ﷺ ▼ Label	rs) (Priti Model 1. • = = 5 • Length (Scaled)	wtg)	Stop Node	Diameter	Material	Flow (Absolute)	Velocity	Headloss Gradient
72 of 372 elemen Q ■ FlexTable: Pij ■ ▼ □ ▼	Search e Table (Currer 記 ご @ ID	nt Time: 0.000 hou ﷺ ₪ ❤ छि Label	rs) (Priti Model 1. ▼ =5 ▼ Length (Scaled) (m)	wtg)	Stop Node	Diameter (mm)	Material	Flow (Absolute) (m ^s /day)	Velocity (m/s)	Headloss Gradient (m/m)
72 of 372 elemen RexTable: Pij V Columnation FlexTable: Pij V Columnation V Columnatio V Columnation V Columnation V Columnation V Columnation V C	Search e Table (Currer B C Q ID 472 (nt Time: 0.000 hou ▲ 📄 ▾ कि Label 0 (Polyline)-284	II C rs) (Priti Model 1. ↓ =5 ↓ Length (Scaled) (m) 7	wtg) Start Node -	 Stop Node J-45 	Diameter (mm) 100.0	Material Ductile Iron	Flow (Absolute) (m³/day) 30	Velocity (m/s) 0.04	Headloss Gradient (m/m) 0.000
72 of 372 elemen FlexTable: Pij • • • • • 72: 0 (Polylin 28: 0 (Polylin	Search e Table (Currer B C Q ID 472 (728 (at Time: 0.000 hou # □ ▼ 5a Label 0 (Polyline)-284 0 (Polyline)-310	Priti Model 1. → E → → Length (Scaled) (m) 7 42	Start Node -	Stop Node 	Diameter (mm) 100.0 100.0	Material Ductile Iron Ductile Iron	Flow (Absolute) (m³/day) 30 14	Velocity (m/s) 0.04 0.02	Headloss Gradient (m/m) 0.000 0.000
	Search e Table (Currer B C R R ID 472 0 728 0 820 0	nt Time: 0.000 hou ▲ → → → → → → →	C C C	Start Node -	Stop Node -45 -173 -213	Diameter (mm) 100.0 100.0 100.0	Material Ductie Iron Ductie Iron Ductie Iron	Flow (Absolute) (m ⁵ /day) 30 14 125	Velocity (m/s) 0.04 0.02 0.18	Headloss Gradient (m/m) 0.000 0.000 0.000
Constant	Search e Table (Currer B C Currer ID C 472 0 728 0 820 0 1011 0	ht Time: 0.000 hou ▲ → → → Label 0 (Polyline)-284 0 (Polyline)-310 0 (Polyline)-273	C C C	Start Node 4 3-44 3-45 3-45	Stop Node J-45 J-173 J-213 J-281	Diameter (mm) 100.0 100.0 100.0	Material Ductie Iron Ductie Iron Ductie Iron Ductie Iron	Flow (Absolute) (m*/day) 30 14 125 45	Velocity (m/s) 0.04 0.02 0.18 0.07	Headioss Gradient (m/m) 0.000 0.000 0.001 0.000
2 of 372 element 2 of 372 element 2 of 372 element 4 4 4 5 4 4 5 4 6 72: 0 (Polylin 72: 0 (Polylin 72	Search e Table (Currer 2 0 0 0 0 0 0 10 0 0 10 0 0 10 1 0 1	tt Time: 0.000 hou ▲ → ↓ Fa Label 0 (Polyline)-284 0 (Polyline)-296 0 (Polyline)-273 0 (Polyline)-326	rs) (Priti Model 1.	Start Node -]-44]-44]-45]-45	Stop Node J-45 J-173 J-213 J-281 J-281	Diameter (mm) 100.0 100.0 100.0 100.0	Material Ductie Iron Ductie Iron Ductie Iron Ductie Iron Ductie Iron	Flow (Absolute) (m ⁹ /day) 30 14 125 45 45	Velocity (m/s) 0.04 0.02 0.18 0.07 0.07	Headloss Gradient (m/m) 0.000 0.001 0.000 0.000 0.000
Crolylin	Search e Table (Currer B C Q Q ID 472 0 728 0 820 0 1011 0 1013 0 475 0	at Time: 0.000 hou ▲ → ↓ 56 Label 0 (Polyline)-284 0 (Polyline)-310 0 (Polyline)-296 0 (Polyline)-296 0 (Polyline)-326 0 (Polyline)-49	rs) (Priti Model 1. = 5 Length (Scaled) (m) 7 42 55 132 133 7	Start Node - 3-44 3-44 3-45 3-45 3-45 3-45 3-45	Stop Node 3-45 3-173 3-213 3-281 3-281 3-47	Diameter (mm) 100.0 100.0 100.0 100.0 100.0 150.0	Material Ductie Iron Ductie Iron Ductie Iron Ductie Iron Ductie Iron Ductie Iron	Flow (Absolute) (m³/day) 30 14 125 45 45 45 38	Velocity (m/s) 0.04 0.02 0.18 0.07 0.07 0.07	Headloss Gradient (m/m) 0.000 0.000 0.000 0.000 0.000 0.000
22 of 372 element FilexTable: Pij 5 • PilexTable: Pij 5 • PilexTable: Pij 22: 0 (Polylin 22: 0 (Polylin 22: 0 (Polylin 23: 0 (Polylin 13: 0 (Polylin 13: 0 (Polylin	Search e Table (Currer 10 10 4722 (728 (820 (1011 (1013 (475 (781 ()	at Time: 0.000 hou ♣ □ ♥ □ ♥ Label 0 (Polyline)-284 0 (Polyline)-295 0 (Polyline)-225 0 (Polyline)-225 0 (Polyline)-225 0 (Polyline)-25	Priti Model 1. F5	Start Node - 3-44 3-45 3-45 3-45 3-45 3-45 3-45 3-46 3-46	Stop Node J-45 J-173 J-213 J-281 J-281 J-47 J-100	Diameter (mm) 100.0 100.0 100.0 100.0 100.0 150.0 150.0	Material Ductie Iron Ductie Iron Ductie Iron Ductie Iron Ductie Iron Ductie Iron Ductie Iron Ductie Iron	Flow (Absolute) (m ¹ /day) 30 14 125 45 45 45 38 8 78	Velocity (m/s) 0.04 0.02 0.18 0.07 0.07 0.07 0.02 0.12	Headloss Gradient (m/m) 0.000 0.001 0.000 0.000 0.000 0.000 0.000
20 of 372 element 20 of 20 o	Search e Table (Currer B C Q Q ID 472 0 472 0 820 0 1011 0 1013 0 475 0 781 0 852 0	at Time: 0.000 hou ▲ □ ▼ 50 Label 0 (Polytne)-284 0 (Polytne)-235 0 (Polytne)-235 0 (Polytne)-235 0 (Polytne)-235 0 (Polytne)-235 0 (Polytne)-55	rs) (Priti Model 1. - =5 Length (Scaled) (m) 7 42 55 132 133 7 49 61	Start Node - 	Stop Node J-45 J-213 J-281 J-281 J-281 J-281 J-29 J-47 J-100 J-70	Diameter (mm) 100.0 100.0 100.0 100.0 100.0 150.0 152.4	Material Ductie Iron Ductie Iron Ductie Iron Ductie Iron Ductie Iron Ductie Iron Ductie Iron Ductie Iron	Flow (Alsolute) (m ³ /day) 30 14 125 45 38 78 29	Velocity (m/s) 0.04 0.02 0.18 0.07 0.07 0.02 0.12 0.02 0.02	Headloss Gradient (m/m) 0.000 0.000 0.000 0.000 0.000 0.000 0.000
Comparing the second seco	Search e Table (Currer 10 10 778 (820 (1011 (1013 (1013 (1013 (1013 (852 (802 (802 (tt Time: 0.000 hou ♣ □ ↓ 50 Label 2 (Polyine)-284 2 (Polyine)-283 2 (Polyine)-273 2 (Polyine)-273 2 (Polyine)-273 2 (Polyine)-75 2 (Polyine)-75 2 (Polyine)-9	C Priti Model 1. F5 C F6 C Caled) (m) 7 42 55 132 133 7 49 61 52	Start Node - J-44 J-44 J-45 J-45 J-45 J-45 J-46 J-46 J-46 J-47	Stop Node 3-45 3-45 3-173 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-270 3-70 3-70	Diameter (mm) 100.0 100.0 100.0 100.0 150.0 100.0 152.4 100.0	Material Ductile Iron Ductile Iron Ductile Iron Ductile Iron Ductile Iron Ductile Iron Ductile Iron Ductile Iron Ductile Iron	Ebyr (Absokte) (m ⁵ /day) 30 14 125 45 45 45 38 8 76 29 18	Velocity (m/s) 0.04 0.02 0.18 0.07 0.07 0.07 0.07 0.02 0.12 0.02 0.12 0.02	Headloss Gradient (m/m) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
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22 of 372 element 2 of 90/yin 2 of 90/yin 2 of 90/yin 3 of 90/yin 5 of 90/yin 7 of 90/yin	Search e Table (Currer 10 0 10 472 0 728 0 1011 0 472 0 1013 0 475 0 520 0 478 0 852 0 852 0 852 0 852 0 852 0 852 0 852 0 855 0	tt Time: 0.000 hou ♣ □ ↓ □ 6 Label (Polyine)-284 (Polyine)-284 (Polyine)-283 (Polyine)-273 (Polyine)-273 (Polyine)-273 (Polyine)-59 (Polyine)-59 (Polyine)-9 (Polyine)-323	rs) (Priti Model 1. = =b + Length (Scaled) (m) 7 42 55 132 133 7 49 61 52 7 64	Start Node - J-44 J-44 J-45 J-45 J-45 J-46 J-46 J-46 J-46 J-46 J-47 J-48 J-48	 Stop Node 3-45 3-173 3-213 3-281 3-47 3-100 3-70 3-70 3-70 3-70 3-70 3-70 3-710 3-70 3-70<td>Dameter (mm) 100.0 100.0 100.0 100.0 150.0 150.0 152.4 100.0 152.4</td><td>Material Ductile Iron Ductile Iron</td><td>Ebw (Absolute) (m³/day) 30 14 125 45 38 29 18 131 216</td><td>Velocity (m/s) 0.04 0.02 0.18 0.07 0.07 0.07 0.02 0.12 0.02 0.12 0.02 0.13 0.19 0.19</td><td>Headloss Gradient (m/m) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000</td>	Dameter (mm) 100.0 100.0 100.0 100.0 150.0 150.0 152.4 100.0 152.4	Material Ductile Iron Ductile Iron	Ebw (Absolute) (m ³ /day) 30 14 125 45 38 29 18 131 216	Velocity (m/s) 0.04 0.02 0.18 0.07 0.07 0.07 0.02 0.12 0.02 0.12 0.02 0.13 0.19 0.19	Headloss Gradient (m/m) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
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22 0 (Polylin 32 0 (Polylin 33 0 (Search ■ Table (Currer ■ Table (Curre	tt Time: 0.000 hou #	I Control (Priti Model 1.	Start Node - 3-44 3-45 3-45 3-45 3-45 3-45 3-46 3-46 3-46 3-48 3-48 3-48 3-48 3-49 3-50	Stop Node 3-45 3-45 3-173 3-281 3-281 3-281 3-281 3-281 3-281 3-29 3-100 3-210 3-49 3-169 3-169 3-169 3-169 3-169 3-169 3-215 3-210 3-	Diameter (mm) 100.0 100.0 100.0 100.0 100.0 150.0 150.0 100.0 152.4 100.0 100.0 150.0 100.0 100.0 100.0 100.0 100.0 100.0	Material Ductile Iron Ductile Iron	Flow (Absolute) (m ¹ /day) 30 14 125 45 45 45 45 45 45 45 29 18 131 216 75 64 44	Velocity (m/s) 0.04 0.02 0.18 0.07 0.07 0.02 0.03 0.02 0.03 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.04 0.04 0.04 0.04 0.04 0.04 0.04	Headioss Gradent (m/m) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
22 of 272 element 2 of 372 element 2 of 372 element 2 of 372 element 2 of 372 element 2 of 272 element 2	Search e Table (Currer ☆ ⊄ ⊄ ⊄ 100 1011 (1013 (at Time: 0.000 hou ▲	Priti Model 1. F5 ↓ F5 ↓ Length (Scaled) (m) 7 42 55 132 133 7 49 61 52 7 7 6 6 3 199 7 7	Start Node - 3-44 3-45 3-45 3-45 3-45 3-45 3-46 3-46 3-46 3-47 3-48 3-48 3-48 3-48 3-48 3-49 3-50 3-59	Stop Node	Diameter (mm) 100.0 100.0 100.0 100.0 100.0 150.4 100.0 152.4 100.0 150.0 1000	Material Ductle Iron Ductle Iron	Flow (Absolute) (m ¹ /day) 30 14 125 45 45 45 45 38 78 29 10 131 216 75 64 4 49 90 10	Velocity (m/s) 0.04 0.02 0.18 0.07 0.02 0.02 0.02 0.02 0.02 0.02 0.02	Headloss Gradient (m/m) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
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22 0 (Polylin 22 0 (Search e Table (Currer 28 2 2 2 4 10 2 2 10 2 2 1011 0 1011 0 1011 0 1011 0 1011 0 1011 0 1010 0 1000 0 1	at Time: 0.000 hou ▲ → = = Label 2 (Polylne)-284 2 (Polylne)-285 2 (Polylne)-273 2 (Polylne)-273 2 (Polylne)-273 2 (Polylne)-273 2 (Polylne)-325 2 (Polylne)-324 2 (Polylne)-324 2 (Polylne)-324 2 (Polylne)-225 2 (Polylne)-225 2 (Polylne)-225 2 (Polylne)-225 2 (Polylne)-235 2 (Polylne	(m) (Priti Model 1. ↓ 『5. ↓ Length (Scaled) (m) 7 42 55 132 133 7 49 66 52 7 7 44 65 52 7 7 49 66 52 7 7 66 55 132 133 7 7 40 55 132 132 133 7 7 40 55 132 132 133 7 7 40 55 132 132 133 7 7 40 55 132 132 133 7 7 40 55 132 133 7 7 40 55 132 132 132 133 7 7 40 155 155 155 155 155 155 155 15	xvtg) Start Node - J-44 J-44 J-45 J-45 J-45 J-45 J-46 J-46 J-46 J-46 J-46 J-48 J-48 J-48 J-48 J-48 J-49 J-50 J-50 J-50 J-50	Stop Node 345 3-173 3-213 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-285 3-51 3-287 3-289 3-51 3-287 3-289	Dameter (mm) 100.0	Material Ductile Iron Ductile Iron	Pow (Absolute) (Msolute) (ms/day) (ms/d	Velocity (m/s) 0.04 0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.02 0.03 0.04 0.05 0.05 0.05 0.05 0.05	Headloss Gradient (m/m) 0.000 0.001 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
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2 (2) (2) (2) (2) (2) (2) (2) (2) (2	Search e Table (Current 25 ☑ ④ ④ 1013 422 0 1013 0 427 0 820 0 1013 0 427 0 820 0	tt Time: 0.000 hou All I III IIIIIIIIIIIIIIIIIIIIIIIIIIIII	rs) (Priti Model 1 • 5 • • • • • • • • • • • • • • • • • •	wtg) Start Node - 3-44 3-45 3-45 3-45 3-45 3-45 3-46 3-46 3-46 3-46 3-46 3-46 3-48 3-58	Stop Node 3-45 3-173 3-173 3-173 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-283 3-169 3-169 3-169 3-283 3-281 3-282 3-281 3-282 3-283 3-284 3-287 3-280 3-281 3-282 3-284 3-287 3-280 3-281 3-282 3-284 3-284 3-284 3-284 3-284 3-284 3-284 3-284 3-28	Diameter (mm) 100.0 100.0 100.0 100.0 100.0 100.0 150.0 152.4 100.0 152.4 100.0 152.4 100.0 152.4 100.0 152.4 100.0 152.4 100.0 152.4 100.0 152.4 100.0 152.4 100.0 150.	Material Ductile Iron Ductile Iron	Pow (Associte) (n)-(a	Velocity (m/s) 0.04 0.02 0.07 0.07 0.02 0.02 0.03 0.09 0.14 0.11 0.01 0.02 0.02 0.02 0.02 0.02 0.02	Headloss Gradient (m/m) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
21 372 elementa	Search	tt Time: 0.000 hou the second secon	rs) (Priti Model 1 rs) (Priti Model 1 Length (scaled) 7 4 4 5 5 133 7 7 4 4 6 6 1 5 2 7 7 4 4 6 6 1 3 1 9 6 1 5 5 1 3 2 7 7 4 9 6 1 3 1 3 7 7 4 9 6 1 3 1 3 7 7 4 9 6 1 3 1 3 7 7 4 9 6 1 3 1 3 7 7 4 9 6 1 3 3 7 7 6 4 6 1 5 5 5 5 5 5 5 5 5 5 7 7 7 6 4 6 6 1 9 9 6 6 1 9 9 6 1 9 9 6 1 9 9 6 1 9 9 6 1 9 9 6 1 9 9 6 1 9 9 6 1 9 9 6 1 9 9 6 1 9 9 6 1 9 9 6 1 9 9 6 1 9 9 6 1 9 9 6 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1	Start Node - 3-44 3-45 3-45 3-45 3-45 3-45 3-46 3-46 3-46 3-48 3-48 3-49 3-48 3-49 3-50 3-50 3-50 3-51 3-52 3-53 3-53	Stop Node 3-45 3-173 3-173 3-213 3-281 3-47 3-281 3-47 3-100 3-281 3-47 3-100 3-213 3-243 3-169 3-251 3-269 3-30 3-24 3-269 3-30 3-24 3-24 3-24 3-24 3-24 3-24 3-24 3-24 3-24 3-24 3-24	Diameter (mm) 100.0 1000	Material Ductile Iron Ductile Iron	Por (Aboda) (Moda) (m) (daya) (aboda) (m) (daya) (abod	Velocity (m/s) 0.04 0.02 0.03 0.07 0.02 0.02 0.02 0.03 0.19 0.14 0.11 0.01 0.03 0.19 0.03 0.19 0.01 0.02 0.03 0.15 0.10 0.04 0.01 0.04 0.04 0.04 0.04 0.04	Headloss Gradent (mm) 0.0000 0.0000 0.0000 0.000000
22 of 372 of metaloxis 23 of 372 of metaloxis 24 372 of metaloxis 25 of 372 of metaloxis 25 of 372 of metaloxis 272 of 270 of metaloxis 272	Search	tt Time: 0.000 hou # i i i i i i i i i i i i i i i i i i i	rs) (Priti Model 1 ▼ 25 Length (Scaled) (m) 7 42 55 132 7 49 61 52 133 7 49 61 52 53 133 7 49 61 53 133 7 49 61 53 133 7 49 61 63 139 7 49 61 63 139 7 139 139 139 139 139 139 139 139	xttp) Start Node -)-44)-45)-45)-45)-45)-45)-46)-46)-46)-46)-46)-46)-46)-46)-48)-49)-50)-5	Stop Node 3459 3473 3433 3433 3433 3433 3431 3433 3431 3431 3431 3431 3431 3431 3431 3431 3431 3431 3431 3431 3431 3431 3431 3431 3431 3441 3441 3441 3441 3441 3441 3441 3441 3441 3441 3441 3441 3441 3442 3442 3442 3442 3442 3442 3442 3442 3442 3442 3444	Dameter (mm) 100.0	Material Ductile Iron Ductile Iron	Image: Provide the second se	Velocity (m/s) 0.04 0.07 0.17 0.07 0.12 0.02 0.02 0.03 0.19 0.14 0.02 0.03 0.19 0.14 0.05 0.15 0.15 0.10 0.05 0.10 0.05 0.19 0.10 0.05 0.05 0.05 0.05 0.05 0.05 0.05	Headloos Gradient (m/m) 0.0000 0.000 0.0000 0.0000 0.0000 0.000000
2 of 372 of 480 2 of 372 of 480 2 of 372 of 480 2	Search e Table (Currer ☆ 2 2 4 2 4 728 4 728 5 728 5	tt Time: 0.000 hou ali i v time: 0.000 hou table v time: 0.000 hou 1004000;200 1004000;200 1004000;200 1004000;200 1004000;200 1004000;200 1004000;500 1004000;500 1004000;500 1004000;500 1004000;500 1004000;500 1004000;500 1004000;500 1004000;500 1004000;500 1004000;500 1004000;500 10040;500 100400;500 100	a) (Priti Model 1.	Virtg) Start Node - 1-44 1-45 1-45 1-45 1-45 1-45 1-45 1-4	Stop Node 3-46 3-273 3-273 3-281 3-281 3-281 3-281 3-270 3-281 3-281 3-270 3-70 <td< td=""><td>Dameter (rmm) 100.0 1000</td><td>Naterial Ductile iron Ductile iron</td><td>Povr (Abcodtc) (m) (dasc) (m) (da</td><td>Velocity (m/s) 0.04 0.02 0.03 0.07 0.02 0.02 0.02 0.03 0.19 0.14 0.11 0.01 0.02 0.05 0.15 0.10 0.02 0.01 0.01 0.01</td><td>Headlows Gradient (rn/im) 0.0000 0.0000 0.0000 0.000000</td></td<>	Dameter (rmm) 100.0 1000	Naterial Ductile iron Ductile iron	Povr (Abcodtc) (m) (dasc) (m) (da	Velocity (m/s) 0.04 0.02 0.03 0.07 0.02 0.02 0.02 0.03 0.19 0.14 0.11 0.01 0.02 0.05 0.15 0.10 0.02 0.01 0.01 0.01	Headlows Gradient (rn/im) 0.0000 0.0000 0.0000 0.000000
22 of 372 of antennation 23 of 274 of antennation 24 of antennation 25 of antennatio	Search	tt Time: 0.000 hou kit [] v t 76 Label (v) v 76 (v)	a) (Priti Model 1. (Priti Model 1. (W)	Start Node - 3-44 3-43 3-45 3-45 3-45 3-45 3-45 3-4	Stop Node 345 3-173 3-213 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-282 3-51 3-520 3-280 3-280 3-280 3-280 3-281 3-282 3-51 3-280 3-281 3-282 3-520 3-281 3-282 3-281 3-282 3-281 3-282 3-281 3-282 3-282 3-281 3-282 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 </td <td>Dameter (mm) 100.0</td> <td>Matterial Ductile iron Ductile iron</td> <td>Pow ((4%)) (1%)) (</td> <td>VebCty (n/s) 0.04 0.07 0.18 0.07 0.02 0.13 0.07 0.02 0.03 0.19 0.14 0.05 0.15 0.15 0.15 0.10 0.26 0.05 0.19 0.10 0.05 0.19 0.10 0.05 0.19 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0</td> <td>Headbas Gradent (rr/m) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.000000</td>	Dameter (mm) 100.0	Matterial Ductile iron Ductile iron	Pow ((4%)) (1%)) (VebCty (n/s) 0.04 0.07 0.18 0.07 0.02 0.13 0.07 0.02 0.03 0.19 0.14 0.05 0.15 0.15 0.15 0.10 0.26 0.05 0.19 0.10 0.05 0.19 0.10 0.05 0.19 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0	Headbas Gradent (rr/m) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.000000
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22 of 372 of endemand → 1 → 1 → 1 → 1 → 1 → 1 → 1 → 1 → 1 → 1	Search	tt Time: 0.000 hou the second secon	a) (Priti Model 1.	Start Node - 	 Stop Node 3-46 3-45 3-173 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-284 3-29 3-30 3-24 3-269 3-30 3-24 3-261 3-54 3-261 3-54 3-261 3-54 <l< td=""><td>Dameter (rmm) 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 200.</td><td>Material Ductle Fron Ducte Fron</td><td> For (Aboda) (Aboda) (M) Gaya (M) Gay</td><td>Velocity (m/s) 0.04 0.04 0.02 0.03 0.04 0.02 0.03 0.04 0.05 0.14 0.07 0.02 0.03 0.04 0.05 0.15 0.16 0.07 0.06 0.16 0.07 0.06 0.07</td><td>Headloss Gradent (m) 0.0000 0.000 0.0000 0.0000 0.0000 0.00000 0.00000 0.000000</td></l<>	Dameter (rmm) 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 200.	Material Ductle Fron Ducte Fron	 For (Aboda) (Aboda) (M) Gaya (M) Gay	Velocity (m/s) 0.04 0.04 0.02 0.03 0.04 0.02 0.03 0.04 0.05 0.14 0.07 0.02 0.03 0.04 0.05 0.15 0.16 0.07 0.06 0.16 0.07 0.06 0.07	Headloss Gradent (m) 0.0000 0.000 0.0000 0.0000 0.0000 0.00000 0.00000 0.000000
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21 21 22 40 ■ <td>Search</td> <td>tt Time: 0.000 hou kit I ime: 0.000 hou tube (19/who:244 (19/who:310 (19/who:</td> <td>rs) (Priti Model 1.</td> <td>Start Node -44 -44 -44 -44 -44 -44 -45 -45</td> <td>Stop Node 3-45 3-173 3-213 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-282 3-51 3-283 3-52 3-260 3-260 3-260 3-281 3-286 3-281 3-56 3-281 3-58 3-58 3-58 3-58 3-58 3-58 3-58 3-58 3-58 3-58 3-59 3-60</td> <td>Dameter (rms) 100.0 100.0 100.0 100.0 100.0 100.0 100.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 100.</td> <td>Material Ductile Iron Ductile Iron</td> <td> Flow ((49%)) (10%) (10%) (10%) (10%) (10%) (11%) (11%)</td> <td>Viboty (m/s) Viboty (m/s) 0.044 0.044 0.02 0.07 0.07 0.07 0.03 0.14 0.14 0.11 0.12 0.02 0.03 0.14 0.14 0.14 0.15 0.15 0.15 0.16 0.02 0.03 0.04 0.05 0.01 0.07 0.00 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.02 0.01 0.02 0.01 0.04 0.02 0.04 0.04 0.02 0.04 0.04 0.02 0.04 0.04 0.02 0.29 0.29</td> <td>Headbas Gradent 0,0000 0,000000</td>	Search	tt Time: 0.000 hou kit I ime: 0.000 hou tube (19/who:244 (19/who:310 (19/who:	rs) (Priti Model 1.	Start Node -44 -44 -44 -44 -44 -44 -45 -45	Stop Node 3-45 3-173 3-213 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-282 3-51 3-283 3-52 3-260 3-260 3-260 3-281 3-286 3-281 3-56 3-281 3-58 3-58 3-58 3-58 3-58 3-58 3-58 3-58 3-58 3-58 3-59 3-60	Dameter (rms) 100.0 100.0 100.0 100.0 100.0 100.0 100.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 100.	Material Ductile Iron Ductile Iron	 Flow ((49%)) (10%) (10%) (10%) (10%) (10%) (11%) (11%)	Viboty (m/s) Viboty (m/s) 0.044 0.044 0.02 0.07 0.07 0.07 0.03 0.14 0.14 0.11 0.12 0.02 0.03 0.14 0.14 0.14 0.15 0.15 0.15 0.16 0.02 0.03 0.04 0.05 0.01 0.07 0.00 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.02 0.01 0.02 0.01 0.04 0.02 0.04 0.04 0.02 0.04 0.04 0.02 0.04 0.04 0.02 0.29 0.29	Headbas Gradent 0,0000 0,000000
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2 of 372 of 4800 2 of 72 of 72 of 72 2 of 72 of 72 2 of 72 of 72 3 of 72 of 72 3 of 72 3 of 72 4	Search	tt Time: 0.000 hou the second secon	rs) (Priti Model 1. (Priti Model 1. (Priti Model 1. Length (scaled) (m) 2 4 3 1 3 1 3 2 3 4 4 4 5 2 7 4 4 5 5 2 7 4 4 5 5 2 7 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	Start Node - 	Stop Node 345 3-45 3-173 3-213 3-281 3-181 3-262 3-263 3-640 3-640 3-641 3-642<	Dameter (rmm) 100.0 100.	Material Ductite iron Ductite i	 For (Ascarc) (m/dgs) For (Ascarc) (m/dgs) Go (m/dgs) Go (m/dgs) 14 125 45 38 29 216 45 38 20 131 216 64 149 901 161 49 901 100 216 64 707 621 100 101 102 103 103 255 64 113 103 255 84 135 106 94 135 208 203 2,796 2,796 2,796 2,797 133 	Velocity (m/s) Velocity (m/s) 0.044 0.044 0.02 0.18 0.07<	Headicas Gradient (m. 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.000000
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22 of 372 of advancement 22 of 372	Search	tt Time: 0.000 hou	a) (Priti Model 1.	Start Node - Start Node - - - - - - - - - - - - - -	Stop Node 3-46 3-47 3-173 3-281 3-282 3-60 3-64 3-64 <td>Dameter (mm) 100.0 100.0 100.0 100.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 100.0 100.0 100.0 150.0 100.0 150.0 100.0 150.0 100.0 150.0 100.0 150.0 100.0 100.0 150.0 100.0 100.0 150.0 100.0 100.0 150.0 100.0 100.0 150.0 100.0 100.0 150.0 100.0 150.0 100.0</td> <td>Material Ductle Iron Ducte Ducte Iron Ducte</td> <td> For (Aboda) (Aboda) (M) Gaya (M) Gay</td> <td>Veicaty (m/s) (m/s) (m/s) (0.07</td> <td>Headioss Gradent (m) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.00000 0.000000</td>	Dameter (mm) 100.0 100.0 100.0 100.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 100.0 100.0 100.0 150.0 100.0 150.0 100.0 150.0 100.0 150.0 100.0 150.0 100.0 100.0 150.0 100.0 100.0 150.0 100.0 100.0 150.0 100.0 100.0 150.0 100.0 100.0 150.0 100.0 150.0 100.0	Material Ductle Iron Ducte Ducte Iron Ducte	 For (Aboda) (Aboda) (M) Gaya (M) Gay	Veicaty (m/s) (m/s) (m/s) (0.07	Headioss Gradent (m) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.00000 0.000000
22 372 444 24 372 446 25 4 2 2 26 4 2 2 2 27 10 2 10 2 28 - 10 - - 28 - 10 - - 28 0 10 10 - 28 0 0 - - 28 0 0 - - 28 0 0 - - 20 0 0 - - 20 0 10 - - 20 0 10 - - 20 0 10 - - 201 0 10 - - 202 0 10 - - 201 0 - - - 201 0 <td>Search</td> <td>tt Time: 0.000 hou</td> <td>a) (Priti Model 1. (Priti Model 1. (m) Length (scaled) (m) (m) (m) (m) (m) (m) (m) (m</td> <td>Start Node </td> <td>Stop Node 3-45 3-173 3-213 3-233 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-282 3-283 3-284 3-280 3-280 3-280 3-280 3-281 3-280 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-282 3-284 3-284 3-284 3-284 3-284 3-39</td> <td>Dameter (rms) 100.0 100.</td> <td>Material Ductle Iron Ductle Ir</td> <td> Flow ((n)/ds) Flow ((n)/ds) (n)/ds) 14 125 45 46 39 18 131 121 64 131 14 125 64 14 131 16 75 64 14 131 16 75 16 16 17 18 18 131 14 131 14 14 155 106 94 115 106 94 115 106 22796 110 127 131 131 131 135 14 14 155 106 11 12 12 131 14 14 15 16 17 100 100 100 11 11 12 12 131 14 14 15 14 16 </td> <td>Valocity (m/s) 0.044 0.044 0.044 0.07 0.07 0.07 0.07 0.07 0.07 0.03 0.14 0.14 0.14 0.15 0.15 0.15 0.16 0.02 0.02 0.02 0.02 0.03 0.14 0.15 0.16 0.06 0.06 0.06 0.06 0.06 0.06 0.07 0.07 0.06 0.06 0.07 0.07 0.06 0.07 0.</td> <td>Headbox Grivin) (Grivin) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.00000 0.00000 0.00000 0.000000</td>	Search	tt Time: 0.000 hou	a) (Priti Model 1. (Priti Model 1. (m) Length (scaled) (m) (m) (m) (m) (m) (m) (m) (m	Start Node 	Stop Node 3-45 3-173 3-213 3-233 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-282 3-283 3-284 3-280 3-280 3-280 3-280 3-281 3-280 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-281 3-282 3-284 3-284 3-284 3-284 3-284 3-39	Dameter (rms) 100.0 100.	Material Ductle Iron Ductle Ir	 Flow ((n)/ds) Flow ((n)/ds) (n)/ds) 14 125 45 46 39 18 131 121 64 131 14 125 64 14 131 16 75 64 14 131 16 75 16 16 17 18 18 131 14 131 14 14 155 106 94 115 106 94 115 106 22796 110 127 131 131 131 135 14 14 155 106 11 12 12 131 14 14 15 16 17 100 100 100 11 11 12 12 131 14 14 15 14 16 	Valocity (m/s) 0.044 0.044 0.044 0.07 0.07 0.07 0.07 0.07 0.07 0.03 0.14 0.14 0.14 0.15 0.15 0.15 0.16 0.02 0.02 0.02 0.02 0.03 0.14 0.15 0.16 0.06 0.06 0.06 0.06 0.06 0.06 0.07 0.07 0.06 0.06 0.07 0.07 0.06 0.07 0.	Headbox Grivin) (Grivin) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.00000 0.00000 0.00000 0.000000
2 of 372 of administration of a second	Search	tt Time: 0.000 hou ali i	a) (Priti Model 1.	Verg) Start Node J-44 J-44 J-44 J-44 J-45 J-45 J-46 J-47 J-48 J-46 J-47 J-48 J-48 J-48 J-48 J-48 J-48 J-48 J-48	Stop Hode 3-45 3-173 3-213 3-213 3-213 3-213 3-213 3-281 3-281 3-281 3-281 3-281 3-281 3-100 3-70 3-213 3-100 3-70 3-213 3-149 3-169 3-281 3-169 3-281 3-281 3-281 3-281 3-281 3-281 3-174 3-81 3-184 3-184 3-184 3-184 3-184 3-184 3-184 3-284 3-284 3-284 3-284 3-284 3-284 3-284 3-284	Dameter (mm) 100.0	Autorial Ductile iron Ductile Ductile iron Ductile ir	Comparison of the second	Velocity (m/s) Velocity (m/s) 0.041 0.02 0.12 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.03 0.14 0.15 0.16 0.05 0.16 0.05 0.16 0.26 0.19 0.19 0.19 0.10 0.06 0.07 0.07 0.07 0.07 0.07 0.19 0.19 0.10 0.10 0.11 0.12 0.20 0.12 0.20 0.12 0.27 0.28 0.29 0.27 0.29 0.27	Headbook Cradient Cradient <t< td=""></t<>

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u • •0 ▼ L6	ID Label	Length (Scaled) Start Node - Stor	iode Diameter	Material	Flow (Absolute)	Velocity	Headloss Gradient		
628: 0 (Polylin	628 0 (Polyline)-231	29 J-65 J-10	100.0	Ductie Iron	(m*/day) 39	0.06	(m/m) 0.000		
506: 0 (Polylin 946: 0 (Polylin	506 0 (Polyline)-150 946 0 (Polyline)-152	11 J-66 J-67 85 J-67 J-40	250.0	Ductile Iron Ductile Iron	1,786 355	0.42	0.001		
947: 0 (Polylin 509: 0 (Polylin	947 0 (Polyline)-151 509 0 (Polyline)-359	84 J-67 J-40 11 J-68 J-69	250.0	Ductile Iron Ductile Iron	1,370 8,029	0.32	0.001		
1008: 0 (Polyli 512: 0 (Polylin	1008 0 (Polyline)-360 512 0 (Polyline)-136	128 J-69 J-263 12 J-70 J-71	675.0	Ductile Iron Ductile Iron	7,981	0.26	0.000		
702: 0 (Polylin 704: 0 (Polylin	702 0 (Polyline)-39 704 0 (Polyline)-185	43 J-72 J-162 44 J-72 J-162	100.0	Ductile Iron Ductile Iron	100 98	0.15	0.000		
759: 0 (Polylin 800: 0 (Polylin	759 0 (Polyline)-37 800 0 (Polyline)-60	45 J-72 J-188 52 J-72 J-209	150.0	Ductle Iron Ductle Iron	334 17	0.22	0.000		
518: 0 (Polylin 687: 0 (Polylin	518 0 (Polyline)-121 687 0 (Polyline)-135	13 J-73 J-74 36 J-73 J-155	150.0	Ductile Iron Ductile Iron	21	0.01	0.000		
1035: 0 (Polyli 521: 0 (Polylin	1035 0 (Polyline)-250	201 J-74 J-15 13 J-75 J-76	100.0	Ductile Iron	52	0.08	0.000		
845: 0 (Polylin	845 0 (Polyline)-112	60 J-75 J-226	100.0	Ductie Iron	20	0.03	0.000		
841: 0 (Polylin	841 0 (Polyline)-109	59 J-76 J-94	100.0	Ductie Iron	20	0.03	0.000		
525: 0 (Polylin 527: 0 (Polylin	525 0 (Polyline)-96 527 0 (Polyline)-188	13 J-77 J-57 13 J-77 J-57	100.0	Ductile Iron Ductile Iron	139 137	0.21	0.001		
560: 0 (Polylin 528: 0 (Polylin	560 0 (Polyline)-97 528 0 (Polyline)-73	19 J-77 J-63 13 J-78 J-79	100.0	Ductie Iron Ductie Iron	73	0.11	0.000		
1053: 0 (Polyli 1058: 0 (Polyli	1053 0 (Polyline)-145 1058 0 (Polyline)-258	558 J-80 J-25 726 J-80 J-278	675.0	Ductle Iron Ductle Iron	7,753 733	0.25	0.000		
822: 0 (Polylin 538: 0 (Polylin	822 0 (Polyline)-5 538 0 (Polyline)-361	84 J-81 J-216 17 J-82 J-83	100.0	Ductie Iron Ductie Iron	28	0.04	0.000		
817: 0 (Polylin 919: 0 (Polylin	817 0 (Polyline)-364	54 J-82 J-215 78 L82 L242	450.0	Ductle Iron	3,769	0.27	0.000		
541: 0 (Polylin	541 0 (Polyline)-32	18 3-84 3-85	100.0	Ductie Iron	6	0.01	0.000		
675: 0 (Polylin	675 0 (Polyline)-115	35 J-86 J-149	100.0	Ductie Iron	24	0.04	0.000		
1040: 0 (Polylii	1040 0 (Polyline)-71	27 J-88 J-78 264 J-88 J-287	100.0	Ductie Iron Ductie Iron	413	0.61	0.000		
550: 0 (Polylin 553: 0 (Polylin	550 0 (Polyline)-219 553 0 (Polyline)-87	19 J-89 J-90 19 J-89 J-90	100.0	Ductie Iron Ductie Iron	61 691	0.09	0.000		
684: 0 (Polylin 686: 0 (Polylin	684 0 (Polyline)-220 686 0 (Polyline)-88	37 J-90 J-154 36 J-90 J-154	100.0	Ductle Iron Ductle Iron	54 611	0.08	0.000		
903: 0 (Polylin 554: 0 (Polylin	903 0 (Polyline)-89 554 0 (Polyline)-110	73 J-90 J-248 19 J-91 J-75	100.0	Ductile Iron Ductile Iron	25	0.04	0.000		
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	ID Label	Length (Scaled) Start Node Stor	lode Diameter	Material	Flow (Absolute)	Velocity	Headloss Gradient		
556: 0 (Polylin	556 0 (Polyline)-319	19 J-92 J-93	(mm) 100.0	Ductile Iron	(m³/day) 63	(m/s) 0.09	(m/m) 0.000		
987: 0 (Polylin 559: 0 (Polylin	987 0 (Polyline)-332 559 0 (Polyline)-264	110 J-92 J-274 19 J-93 J-92	100.0	Ductle Iron Ductle Iron	37	0.05	0.000		
839: 0 (Polylin 696: 0 (Polylin	839 0 (Polyline)-266 696 0 (Polyline)-107	59 J-93 J-223 38 J-94 J-150	100.0	Ductile Iron	20	0.03	0.000		
1014: 0 (Polyli	1014 0 (Polyline)-23	138 3-94 3-37	100.0	Ductle Iron	188	0.28	0.001		
565: 0 (Polylin	565 0 (Polyline)-187 565 0 (Polyline)-95	23 J-95 J-77 22 J-95 J-77	100.0	Ductle Iron	116	0.17	0.000		
921: 0 (Polylin	670 0 (Polyline)-228 921 0 (Polyline)-56	34 J-95 J-125 79 J-95 J-227	100.0	Ductle Iron Ductle Iron	152 1,403	0.22	0.001		
566: 0 (Polylin 569: 0 (Polylin	566 0 (Polyline)-243 569 0 (Polyline)-2	23 J-96 J-97 22 J-97 J-96	152.4	Ductle Iron Ductle Iron	8	0.00	0.000		
985: 0 (Polylin 570: 0 (Polylin	985 0 (Polyline)-240 570 0 (Polyline)-125	111 J-97 J-196 23 J-98 J-99	150.0	Ductle Iron Ductle Iron	41 27	0.03	0.000		
712: 0 (Polylin 758: 0 (Polylin	712 0 (Polyline)-122 758 0 (Polyline)-124	39 J-98 J-73 61 J-99 J-73	150.0	Ductle Iron Ductle Iron	72	0.05	0.000		
575: 0 (Polylin 578: 0 (Polylin	575 0 (Polyline)-1 578 0 (Polyline)-155	23 J-100 J-101 23 J-102 J-103	100.0	Ductle Iron	8	0.01	0.000		
635: 0 (Polylin	635 0 (Polyline) 155 635 0 (Polyline) 156 581 0 (Polyline) 345	30 J-102 J-128	100.0	Ductle Iron	248	0.37	0.002		
705: 0 (Polylin	705 0 (Polyline)-289	39 J-104 J-163	100.0	Ductle Iron	13	0.02	0.000		
970: 0 (Polylin	970 0 (Polyline)-350	98 J-105 J-106	250.0	Ductle Iron	388	0.00	0.000		
592: 0 (Polylin 595: 0 (Polylin	592 0 (Polyline)-83 595 0 (Polyline)-222	25 J-107 J-108 26 J-107 J-108	250.0	Ductle Iron Ductle Iron	188	0.04	0.000		
968: 0 (Polylin 911: 0 (Polylin	968 0 (Polyline)-99 911 0 (Polyline)-223	102 J-107 J-254 78 J-108 J-252	150.0	Ductle Iron Ductle Iron	214	0.14	0.000		
913: 0 (Polylin 596: 0 (Polylin	913 0 (Polyline)-66 596 0 (Polyline)-335	77 J-108 J-252 23 J-109 J-1	250.0	Ductle Iron Ductle Iron	48 83	0.01	0.000		
598: 0 (Polylin 969: 0 (Polylin	598 0 (Polyline)-357	26 J-110 J-31	200.0	Ductle Iron	53	0.02	0.000		
600: 0 (Polylin	600 0 (Polyline)-162	26 J-111 J-112	150.0	Ductle Iron	394	0.26	0.001		
603: 0 (Polylin	603 0 (Polyline)-3	26 J-113 J-114	100.0	Ductle Iron	9	0.01	0.000		
810: 0 (Polylin	810 0 (Polyline)-94	47 J-114 J-198 53 J-114 J-212	100.0	Ductle Iron	16	0.02	0.000		
606: 0 (Polylin 608: 0 (Polylin	606 0 (Polyline)-251 608 0 (Polyline)-171	27 J-115 J-18 27 J-116 J-117	200.0	Ductle Iron Ductle Iron	511 389	0.19	0.000		
941: 0 (Polylin 611: 0 (Polylin	941 0 (Polyline)-69 611 0 (Polyline)-167	82 J-117 J-261	250.0	Ductle Iron	297	0.07	0.000		
372 of 372 elements	s displayed			• •	-			SORT 19:53	
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* • • • •	E C		iode Diameter (mm)	Material	Flow (Absolute) (m ^s /dav)	Velocity (m/s)	Headloss Gradient (m/m)	- 0 ×	
611: 0 (Polylin 809: 0 (Polylin	ID Label 611 0 (Polyline)-167 809 0 (Polyline)-168		iode Diameter (mm) 150.0	Material Ductle Iron Ductle Iron	Flow (Absolute) (m ⁵ /day) 9	Velocity (m/s) 0.01	Headioss Gradient (m/m) 0.000 0.000	- 0 >	
611: 0 (Polylin 809: 0 (Polylin 614: 0 (Polylin 926: 0 (Polylin	B C Att B T S ID Label Label 10		iode Diameter (mm) 150.0 152.4	Material Ductie Iron Ductie Iron Ductie Iron	Flow (Absolute) (m³/day) 9 37 9	Velocity (m/s) 0.01 0.02	Headloss Gradient (m/m) 0.000 0.000 0.000	- 0 >	
611: 0 (Polylin 609: 0 (Polylin 614: 0 (Polylin 620: 0 (Polylin 620: 0 (Polylin 620: 0 (Polylin	ID Label ID Label 611 0 (Polyline)-167 809 0 (Polyline)-168 614 0 (Polyline)-169 926 0 (Polyline)-169 620 0 (Polyline)-270 620 0 (Polyline)-270	 ■ ■ Length (Scaled) (m) Start Node - Stop 727 >118 >119 >189 >28 >120 >121 >256 28 >122 >123 >10 >10<td>Node Diameter (mm) 150.0 150.0 152.4 152.4</td><td>Material Ductle Iron Ductle Iron Ductle Iron Ductle Iron Ductle Iron</td><td>Flow (Absolute) (m³/day) 9 37 9 46 281</td><td>Velocity (m/s) 0.01 0.02 0.01 0.03 0.18</td><td>Headloss Gradient (m/m) 0.000 0.000 0.000 0.000 0.000</td><td>- 0 ></td>	Node Diameter (mm) 150.0 150.0 152.4 152.4	Material Ductle Iron Ductle Iron Ductle Iron Ductle Iron Ductle Iron	Flow (Absolute) (m³/day) 9 37 9 46 281	Velocity (m/s) 0.01 0.02 0.01 0.03 0.18	Headloss Gradient (m/m) 0.000 0.000 0.000 0.000 0.000	- 0 >	
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	B C 4 Mail Image: C Fill ID Label 611 0 (Polyhen)-167 6809 0 (Polyhen)-167 8090 0 (Polyhen)-169 9966 0 (Polyhen)-169 9266 0 (Polyhen)-120 9262 0 (Polyhen)-232 2 (Polyhen)-232 0 (Polyhen)-232 0 (Polyhen)-232 0 (Polyhen)-235 0 (Polyhen)-235 0 (Polyhen)-235 0 (Polyhen)-235 0 (Polyhen)-236	■ ■	iode Diameter (mm) 150.0 150.0 150.0 152.4 152.4 150.0 150.0 150.0 150.0 150.0 100.0 100.0	Material Ductile Iron Ductile Iron Ductile Iron Ductile Iron Ductile Iron Ductile Iron Ductile Iron Ductile Iron	Flow (Absolute) (m ⁵ /day) 9 37 9 46 281 278 73 195 194	Vebotty (m/s) 0.01 0.02 0.01 0.03 0.18 0.18 0.05 0.29 0.29	Headloos Gradent (m/m) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	- 0 >	
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Q Search

	ID	Label	Length (Scaled) (m)	Start Node -	Stop Node	Diameter (mm)	Material	Flow (Absolute) (m ^s /day)	Velocity (m/s)	Headloss Gradient (m/m)
1001: 0 (Polyli	1001	0 (Polyline)-116	157	J-149	J-183	100.0	Ductile Iron	47	0.07	0.000
577: 0 (Polylin	677	0 (Polyline)-173	35	J-150	3-131	200.0	Ductile Iron	451	0.17	0.000
579: 0 (Polylin	679	0 (Polyline)-114	35	J-151	J-152	150.0	Ductile Iron	12	0.01	0.000
708: 0 (Polylin	708	0 (Polyline)-117	39	J-151	J-149	100.0	Ductle Iron	55	0.08	0.000
592: 0 (Polylin	692	0 (Polyline)-82	37	J-154	3-107	250.0	Ductle Iron	456	0.11	0.000
593: 0 (Polylin	693	0 (Polyline)-221	37	J-154	3-107	100.0	Ductile Iron	41	0.06	0.000
986: 0 (Polylin	986	0 (Polyline)-84	110	J-154	3-141	100.0	Ductile Iron	83	0.12	0.000
589: 0 (Polylin	689	0 (Polvine)-26	37	J-156	3-157	150.0	Ductle Iron	13	0.01	0.000
976: 0 (Polylin	976	0 (Polyline)-90	101	J-156	3-271	100.0	Ductle Iron	34	0.05	0.000
200: 0 (Polylin	700	0 (Polyine)-242	39	1-158	1-161	150.0	Ductie Iron	1	0.00	0.000
826: 0 (Polylin	826	0 (Polyine)-11	56	1-158	1-218	100.0	Ductie Iron	19	0.03	0.000
828: 0 (Pobdio	828	0 (Polyine)-747	56	1,158	1.218	100.0	Ductie Iron	19	0.03	0.000
SOR: 0 (Pohdin	600	0 (Poldne)-131	30	1-160	1.08	150.0	Ductie Iron	132	0.00	0.000
1026: 0 (Robdi	1036	0 (Pohdpa)-25	175	3-161	1.227	100.0	Ductie Iron	72	0.03	0.000
204: 0 (Pohdio	704	0 (Polyline)-23	1/5	3-161	1-206	100.0	Ductle Iron	107	0.11	0.000
194: 0 (Polylin	/94	0 (Polyine)-40	50	J-162	3-206	100.0	Ductie Iron	107	0.16	0.000
371: 0 (Polylin	8/1	0 (Polyline)-12	66	J-162	J-234	100.0	Ducue Iron	22	0.03	0.000
ruy: 0 (Polylin	709	0 (Polyline)-280	41	J-164	J-48	100.0	Ductie Iron	127	0.19	0.001
/11: 0 (Polylin	711	0 (Polyline)-324	41	J-164	J-48	150.0	Ductie Iron	368	0.24	0.001
1043: 0 (Polyli	1043	0 (Polyline)-354	261	J-164	J-122	400.0	Ductile Iron	968	0.09	0.000
745: 0 (Polylin	745	0 (Polyline)-351	43	J-166	3-92	150.0	Ductile Iron	227	0.15	0.000
981: 0 (Polylin	981	0 (Polyline)-298	108	J-166	3-272	100.0	Ductle Iron	37	0.05	0.000
718: 0 (Polylin	718	0 (Polyline)-6	41	J-167	J-168	100.0	Ductle Iron	14	0.02	0.000
750: 0 (Polylin	750	0 (Polyline)-78	44	J-167	J-184	100.0	Ductile Iron	15	0.02	0.000
721: 0 (Polylin	721	0 (Polyline)-322	41	J-169	J-170	100.0	Ductile Iron	66	0.10	0.000
724: 0 (Polylin	724	0 (Polyline)-294	41	J-169	3-170	100.0	Ductile Iron	66	0.10	0.000
868: 0 (Polylin	868	0 (Polyline)-269	65	J-169	J-233	100.0	Ductle Iron	22	0.03	0.000
870: 0 (Polylin	870	0 (Polyline)-347	65	J-169	3-233	100.0	Ductle Iron	22	0.03	0.000
746: 0 (Polylin	746	0 (Polyline)-276	44	J-170	J-182	100.0	Ductile Iron	57	0.08	0.000
779: 0 (Polylin	779	0 (Polyline)-283	47	3-170	3-199	100.0	Ductile Iron	16	0.02	0.000
725: 0 (Polylin	725	0 (Polyline)-20	41	J-171	3-172	150.0	Ductile Iron	14	0.01	0.000
737: 0 (Polylin	737	0 (Polyline)-138	42	J-172	3-178	150.0	Ductle Iron	14	0.01	0.000
730: 0 (Polylin	730	0 (Polyline)-65	42	3-174	3-175	200.0	Ductile Iron	126	0.05	0.000
806: 0 (Polylin	806	0 (Polvine)-64	52	3-175	3-24	200.0	Ductile Iron	157	0.06	0.000
733: 0 (Polylin	733	0 (Polvine)-44	42	J-176	3-177	100.0	Ductile Iron	161	0,24	0,001
901: 0 (Polylin	901	0 (Polyine)-127	72	1-176	1-247	100.0	Ductie Iron	24	0.04	0.000
805: 0 (Polylin	805	0 (Polyine)-45	52	1-177	1-23	100.0	Ductie Iron	130	0.19	0.001
893: 0 (Polylin	893	0 (Polyine)-128	71	1-177	1-243	100.0	Ductie Iron	24	0.04	0.001
739: 0 (Polylin	739	0 (Poh/ine)-315	54	1,179	1,180	675.0	Ductie Iron	7 558	0.04	0.000
R10: 0 (Pohdio	/39	0 (Dobdoo) 214	54	1 180	1.83	675.0	Ductin Iron	7,358	0.24	0.000
The O (Polylin	819	o (Polyand)-314	55	3-100	3.62	6/5.0	Ducue Iron	7,521	0.24	0.000
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			Length (Scaled)			Diameter		Flow	Velocity	Headloss
	ID	Label	(m)	Start Node	Stop Node	(mm)	Material	(Absolute) (m³/day)	(m/s)	Gradient (m/m)
A44: 0 (Polylin	744	0 (Polyline)-165	43	J-181	3-54	150.0	Ductile Iron	113	0.07	0.000
P52: 0 (Polylin P52: 0 (Polylin	995	0 (Polyine)-113 0 (Polyine)-47	113	J-185	3-151	150.0	Ductie Iron	130	0.09	0.000
782: 0 (Polylin	782	0 (Polyline)-62	48	J-185	3-200	152.4	Ductile Iron	16	0.01	0.000
754: 0 (Polylin	754	0 (Polyline)-328	46	J-186	J-187	150.0	Ductile Iron	271	0.18	0.000
353: 0 (Polylin	853	0 (Polyline)-300	61	J-186	3-2	150.0	Ductile Iron	468	0.31	0.001
999: 0 (Polylin	999	0 (Polyline)-330	121	3-186	3-259	250.0	Ductile Iron	2,092	0.49	0.001
314: 0 (Polylin	814	0 (Polyline)-267	45	1-187	1-213	150.0	Ductie Iron	2/4	0.18	0.000
796: 0 (Polylin	796	0 (Polyline)-46	51	J-188	J-185	150.0	Ductle Iron	264	0.17	0.000
761: 0 (Polylin	761	0 (Polyline)-166	45	J-189	J-190	150.0	Ductle Iron	70	0.05	0.000
1038: 0 (Polyli	1038	0 (Polyline)-158	235	J-190	J-145	150.0	Ductle Iron	228	0.15	0.000
766: 0 (Polylin	766	0 (Polyline)-246	46	J-192	J-146	100.0	Ductle Iron	15	0.02	0.000
768: 0 (Polylin	768	0 (Polyline)-29	46	J-193	J-194	100.0	Ductle Iron	16	0.02	0.000
771: 0 (Polylin	771	0 (Polyline)-186	47	J-193	3-194	100.0	Ductie Iron	16	0.02	0.000
20: 0 (Polylin	920	0 (Polyine)-31 0 (Polyine)-30	57	1-194	1-88	100.0	Ductie Iron	91	0.13	0.000
72: 0 (Polylin	772	0 (Polyline)-8	47	J-195	J-81	100.0	Ductie Iron	16	0.29	0.001
74: 0 (Polylin	774	0 (Polyline)-102	47	J-196	J-197	100.0	Ductie Iron	16	0.02	0.000
784: 0 (Polylin	784	0 (Polyline)-130	48	J-201	J-160	150.0	Ductile Iron	162	0.11	0.000
788: 0 (Polylin	788	0 (Polyline)-137	49	J-203	J-172	150.0	Ductile Iron	73	0.05	0.000
990: 0 (Polylin	990	0 (Polyline)-192	111	J-203	3-275	200.0	Ductile Iron	27	0.01	0.000
92: 0 (Polylin	992	0 (Polyline)-177	110	J-203	3-275	250.0	Ductile Iron	48	0.01	0.000
790: 0 (Polylin	790	0 (Polyline)-308	49	J-204	3-205	152.4	Ductle Iron	17	0.01	0.000
54: 0 (Polylin	954	0 (Polyline)-291	87	3-204	3-39	100.0	Ductile Iron	46	0.07	0.000
173: 0 (Polylin	873	u (Polyline)-14	66	J-206	J-235	100.0	Ductle Iron	22	0.03	0.000
207: 0 (Polylin	876	u (Polyline)-28	67	3-206	3-236	100.0	Ductle Iron	23	0.03	0.000
307: 0 (Polylin	/97	0 (Polyine)-21 0 (Polyine)-24	52	1-208	1-211	150.0	Ductie Iron	18	0.01	0.000
312: 0 (Polylin	812	0 (Polyine)-24	52	1-213	1-187	150.0	Ductie Iron	18	0.01	0.000
321: 0 (Polylin	821	0 (Polyline)-277	55	3-213	3-45	100.0	Ductie Iron	125	0.14	0.000
315: 0 (Polylin	815	0 (Polyline)-33	54	J-214	J-150	200.0	Ductie Iron	481	0.18	0.000
30: 0 (Polylin	930	0 (Polyline)-175	80	J-214	J-83	200.0	Ductie Iron	526	0.19	0.000
1052: 0 (Polyli	1052	0 (Polyline)-365	433	J-215	3-5	450.0	Ductie Iron	3,604	0.26	0.000
24: 0 (Polylin	824	0 (Polyline)-309	56	J-217	J-109	300.0	Ductile Iron	23	0.00	0.000
329: 0 (Polylin	829	0 (Polyline)-293	56	3-217	3-109	250.0	Ductile Iron	14	0.00	0.000
330: 0 (Polylin	830	0 (Polyline)-237	56	J-219	3-220	200.0	Ductile Iron	59	0.02	0.000
178: 0 (Polylin	978	u (Polyline)-238	101	J-220	J-237	200.0	Ductile Iron	299	0.11	0.000
rye: 0 (Polylin	996	u (Polyline)-239	114	3-220	3-97	150.0	Ductile Iron	148	0.10	0.000
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72 of 372 element FlexTable: Pi • • •	Search be Table (Curre	nt Time: 0.000 hou #1 🖻 🕶 छ	rs) (Priti Model 1. ▼ =₀ ▼	wtg)		9 😣 🔹	•	D O	•	Headlose
72 of 372 element FlexTable: Pi • •	Search De Table (Curre	nt Time: 0.000 hou # P + R Label	rs) (Priti Model 1.	wtg)	Stop Node	Diameter (mm)	Material	Flow (Absolute) (mbl/dm/	Velocity (m/s)	Headloss Gradient
FlexTable: Pi	Search De Table (Curre 10 ID	nt Time: 0.000 hou Mail R V Ro Label 0 (Polyline)-61	III C IIII C IIIIIIIIIIIIIIIIIIIIIIIII	start Node	Stop Node	Diameter (mm)	Material	Flow (Absolute) (m ³ /day)	Velocity (m/s)	Headloss Gradient (m/m)
772 of 372 element ■ FlexTable: Pi ■ FlexTable: Pi ■ ▼ • • • • • • • • • • • • • • • • • •	Search De Table (Curre 10 10 833 837	nt Time: 0.000 hou #	Control (Priti Model 1) F5 Control (Scaled) (m) 57 59	Start Node	Stop Node	Diameter (mm) 152.4 675.0	Material Ductie Iron Ductie Iron	Flow (Absolute) (m³/day) 19 7,596	Velocity (m/s) 0.01 0.25	Headloss Gradient (m/m) 0.000 0,000
772 of 372 element FlexTable: Pi ★	Search De Table (Curre LB U (Qurre D ID 833 837 843	nt Time: 0.000 hou #	Control (Priti Model 1) F5 Control (Scaled) (m) 57 59 60	Start Node -	Stop Node J-188 J-179 J-219	Diameter (mm) 152.4 675.0 200.0	Material Ductle Iron Ductle Iron	Flow (Absolute) (m³/day) 19 7,596 20	Velocity (m/s) 0.01 0.25 0.01	Headloss Gradient (m/m) 0.000 0.000 0.000
772 of 372 element	Search te Table (Curre IS 0 4 0 ID 833 837 843 849	nt Time: 0.000 hou # - - - - - - - - - - - - -	Control (Priti Model 1. F5 ← Length (Scaled) (m) 57 59 60 60	Start Node 4 3-221 3-225 3-225 3-227	Stop Node 3-188 3-179 3-219 3-52	Diameter (mm) 152.4 675.0 200.0 250.0	Material Ductie Iron Ductie Iron Ductie Iron	Flow (Absolute) (m³/day) 19 7,596 20 1,215	Velocity (m/s) 0.01 0.25 0.01 0.29	Headloss Gradient (m/m) 0.000 0.000 0.000
772 of 372 element ■ FlexTable: Pi ■ FlexTable: Pi ■ ▼ ■ • ■ ₹ ■ ₹ ■ ₹ ■ ₹ ■ ₹ ■ ₹ ■ ₹ ■ ₹	Search De Table (Curre D ID 833 837 843 849 917	nt Time: 0.000 hou # • • • • Label 0 (Polyline)-51 0 (Polyline)-58 0 (Polyline)-57 0 (Polyline)-57	IF Control (Control (Contro) (Contro) (Contro) (Contro) (Contro) (Contro) (Con	Start Node - 3-221 3-222 3-225 3-227 3-227	Stop Node 3-188 3-179 3-219 3-52 3-167	Diameter (mm) 152.4 675.0 200.0 250.0 100.0	Material Ductie Iron Ductie Iron Ductie Iron Ductie Iron Ductie Iron	Flow (Absolute) (m³/day) 19 7,596 20 1,215 84	Velocity (m/s) 0.01 0.25 0.01 0.29 0.12	Headloss Gradient (m/m) 0.000 0.000 0.000 0.000
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22 of 372 ulemen	Search 2014 Table (Curre 2014 Content 2014 Content 201	nt Time: 0.000 hou ▲	rs) (Priti Model 1. * #5 * Length (Scaled) (m) Length (Scaled) (m) 57 59 60 60 60 60 60 60 78 60 60 60 79 60 60 60 60 79 60 60 60 79 70 70 70 70 70 70 70 70 70 70	Start Node - 	Stop Node 3-188 3-179 3-219 3-52 3-52 3-52 3-52 3-52 3-52 3-240 3-230 3-230 3-230 3-230 3-230 3-230 3-230 3-256 3-267 3-188 3-179 3-25 3-256	Diameter (mm) 152.4 675.0 2200.0 250.0 150	Material Ductile Iron Ductile Iron	Flow (Absolute) (m³/dsy) 19 7,596 20 1,215 84 126 437 33 179 61 34 115 30 0 71	Velocity (m/s) 0.01 0.25 0.01 0.29 0.12 0.09 0.05 0.12 0.05 0.02 0.05 0.02 0.005	Headioss Gradient (m/m) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
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22 of 372 element	Search to Table (Curre Comparison of the comparison of the compa	nt Time: 0.000 hou #k ■ → ™ Label 0 (Polyme)-E1 0 (Polyme)-55 0 (Polyme)-57 0 (Polyme)-57 0 (Polyme)-57 0 (Polyme)-57 0 (Polyme)-57 0 (Polyme)-52 0 (Polyme)-53 0 (Polyme	rs) (Priti Model 1.1 File (Caled) Length (Caled) (m) 57 59 660 60 60 66 66 77 79 66 66 66 77 79 66 66 66 77 79 66 60 60 60 60 77 60 60 60 60 60 60 60 60 60 60	Start Node - 3-221 3-222 3-222 3-227 3-227 3-227 3-227 3-227 3-228 3-229 3-230 3-	Stop Node 3-188 3-179 3-52 3-167 3-52 3-240 3-230 3-230 3-230 3-230 3-230 3-230 3-230 3-230 3-230 3-230 3-230 3-230 3-26 3-166 3-267 3-166 3-267 3-166 3-267 3-166 3-267 3-166 3-267 3-166 3-267 3-266 3	Dameter (mm) 152.4 675.0 200.0 200.0 200.0 200.0 100.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0	Material Ductile Iron Ductile Iron	Pow (Ascource) (m ¹ /dsy) 7,596 200 1,215 844 126 437 33 129 61 34 115 30 31 211 308 84 20 221 20 20 20 20 20 20 20 20 20 20 20 20 20	Velocity (m/s) 0.01 0.25 0.01 0.29 0.29 0.29 0.12 0.05 0.12 0.05 0.05 0.005 0.005 0.005 0.004 0.003 0.004 0.003 0.004 0.001	Headiess Gradent (m/m) 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
22 of 372 element	Search te Table (Curre tic 1 2 2 3 10 10 3 10 10 10 10 10 10 10 10	nt Time: 0.000 hou at Label 0 (Polyime)-51 0 (Polyime)-52 0 (Polyime)-57 0 (Polyime	rs) (Pnti Model 1. rs) (Pnti Model 1. Length (scaled) (m) 57 59 66 66 66 66 67 79 66 66 67 79 66 63 57 59 60 60 60 60 60 60 60 60 79 66 60 60 60 60 79 66 60 60 60 60 60 60 60 60 60	Start Node - 	Stop Node 3-188 - Stop Node - 199 - 199 - 219 - 219 - 229 - 3-67 - 3-52 - 3-46 - 3-24 - 3-20 - 3-	Diameter (mi) 152.4 675.0 220.0 2250.0 100	Naterial Ductle Iron Ductle Iron	 Flow (Abcduc) (m/dsb- (m/dsb- (m/dsb- 20) 19 7.596 20 1215 84 109 61 34 308 834 21 308 834 21 308 834 21 	Velocity (m/s) 0.01 0.29 0.12 0.29 0.05 0.19 0.05 0.02 0.05 0.02 0.05 0.02 0.03 0.03 0.03 0.03 0.03 0.03	Headloss Gradient (m/m) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000000
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72 of 722 widemen Piezy Tablez: Pi Q Piezy Tablez: Pi Q 312: 0 (Polylin Q 312: 0 (Polylin Q 312: 0 (Polylin Q 312: 0 (Polylin Q 313: 0 (Polylin Q 315: 0 (Polylin Q 316: 0 (Polylin Q 316: 0 (Polylin Q 325: 0 (Polylin Q 326: 0 (Polylin Q 326: 0 (Polylin Q 326: 0 (Polylin Q 328: 0 (Polylin Q 320: 0 (Polylin <td< td=""><td>Search table (Current table) 10 833 843 843 849 917 922 880 885 855 855 855 855 855 855</td><td>nt Time: 0.000 hox of the second seco</td><td>rs) (Priti Model 1. rs) (Priti Model 1. rs) (Priti Model 1. Length (Scaled) (m) 57 59 50 60 60 60 60 60 60 60 60 60 6</td><td>Start Node - </td><td>Stop Node 3-188 - 3-179 - 3-129 - 3-52 - 3-165 - 3-230 - 3-230 - 3-230 - 3-240 - 3-230 - 3-240 - 3-250 - 3-166 - 3-24 - 3-142 - 3-144 - 3-24 - 3-24 - 3-24 - 3-24 - 3-240 - 3-240 - 3-240 - 3-240 - 3-240 - 3-240 - 3-240 - 3-240 - 3-240 - 3-240 - 3-240 - 3-240 - 3-229 -</td><td>Dameter (mm) 152.4 675.0 2200.0 250.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0</td><td>Material Ductie Iron Ductie Iron</td><td>Fbar (Abocate) (m*/dsy) 19 7.556 200 1.215 84 126 437 33 179 61 34 115 30 84 437 33 129 61 34 32 30 8 44 21 30 8 44 115 30 8 12 21 22 41 10 10</td><td>Vebcty (m/s) 0.01 0.02 0.03 0.05 0.05 0.06 0.06 0.07 0.07 0.08 0.04 0.03 0.03 0.03 0.03 0.03 0.03 0.05 0.03 0.03 0.05 0.04 0.05 0.05 0.06 0.06 0.07 0.07 0.08 0.08 0.09 0.09 0.01 0.05 0.06 0.06 0.07 0.07 0.08 0.08 0.09 0.03 0.03</td><td>Headioss Gradent (n/m) 0.0000 0.0000 0.0000 0.000000</td></td<>	Search table (Current table) 10 833 843 843 849 917 922 880 885 855 855 855 855 855 855	nt Time: 0.000 hox of the second seco	rs) (Priti Model 1. rs) (Priti Model 1. rs) (Priti Model 1. Length (Scaled) (m) 57 59 50 60 60 60 60 60 60 60 60 60 6	Start Node - 	Stop Node 3-188 - 3-179 - 3-129 - 3-52 - 3-165 - 3-230 - 3-230 - 3-230 - 3-240 - 3-230 - 3-240 - 3-250 - 3-166 - 3-24 - 3-142 - 3-144 - 3-24 - 3-24 - 3-24 - 3-24 - 3-240 - 3-240 - 3-240 - 3-240 - 3-240 - 3-240 - 3-240 - 3-240 - 3-240 - 3-240 - 3-240 - 3-240 - 3-229 -	Dameter (mm) 152.4 675.0 2200.0 250.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	Material Ductie Iron Ductie Iron	Fbar (Abocate) (m*/dsy) 19 7.556 200 1.215 84 126 437 33 179 61 34 115 30 84 437 33 129 61 34 32 30 8 44 21 30 8 44 115 30 8 12 21 22 41 10 10	Vebcty (m/s) 0.01 0.02 0.03 0.05 0.05 0.06 0.06 0.07 0.07 0.08 0.04 0.03 0.03 0.03 0.03 0.03 0.03 0.05 0.03 0.03 0.05 0.04 0.05 0.05 0.06 0.06 0.07 0.07 0.08 0.08 0.09 0.09 0.01 0.05 0.06 0.06 0.07 0.07 0.08 0.08 0.09 0.03 0.03	Headioss Gradent (n/m) 0.0000 0.0000 0.0000 0.000000
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22 of 272 a demonst → → → → → → → → → → → → → → → → → → →	Search te Table (Curre te Table (Curre 10 833 847 843 849 917 922 880 885 855 855 855 855 855 855	nt Time: 0.000 hours in the second se	In: (Priti Model 1	Start Node - 	Stop Node 3-199 2:19 3-220 3-230 3-230 3-230 3-230 3-230 3-230 3-240 3-230 3-230 3-240 3-230 3-240 3-240 3-240 3-240 3-240 3-240 3-240 3-240 3-240 3-240 3-240 3-240 3-240 3-229 3-229 3-229 3-220 3-229 3-229 3-240 3-229 3-240 3-250 3-260	Darmeter (rmm) 152.4 675.0 2000.0 2000.0 2000.0 2000.0 2000.0 2000.0 150.0 150.0 150.0 150.0 150.0 100.0 150.0 100	Naterial Ductile Iron Ductile Iron	 Pow (Abcodre) (m) (dob) Fow (m) (dob) 7,596 200 1,215 844 126 437 33 129 61 130 344 141 130 306 844 141 130 306 304 141 141	Velocity (m/s) 0.01 0.25 0.01 0.26 0.01 0.27 0.19 0.29 0.12 0.19 0.20 0.03 0.03 0.19 0.31 0.19 0.33 0.19 0.33 0.47	Headloss Gradent (rr/m) 0.0000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.000000
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22 of 372 a dense:	Search te Table (Curre te Table (Curre 10 833 847 843 849 917 922 880 885 855 855 855 858 867 964 867 964 862 881 888 889 989 881 883 888 890 991 881 883 889 999 881 885 881 885 892 911 883 885 885 885 897 885 885 885 885 885 885 885 88	nt Time: 0.000 hours in the second se	the second	Start Node - 3-221 3-222 3-225 3-227 3-227 3-227 3-227 3-228 3-228 3-228 3-228 3-229 3-229 3-229 3-229 3-229 3-230 3-230 3-230 3-231 3-237 3-239 3-242 3-242 3-242 3-242 3-242 3-242 3-242 3-242 3-242 3-242 3-242 3-242 3-242 3-242 3-242 3-242 3-242 3-255 3-255 3-257 3-257 3-227 3-228 3-229 3-229 3-229 3-229 3-229 3-229 3-229 3-229 3-229 3-229 3-239 3-239 3-241 3-239 3-241 3-242 3-259 3-242 3-259 3-242 3-259 3-242 3-259 3-242 3-	Stop Node 3-199 2-19 3-20 3-219 3-52 3-167 3-95 3-52 3-200 3-200 3-200 3-200 3-200 3-200 3-200 3-200 3-200 3-200 3-200 3-200 3-200 3-200 3-201 3-202 3-229 3-229 3-229 3-229 3-229 3-229 3-229 3-229 3-229 3-229 3-240 3-36 3-37	Darmeter (rmm) 152.4 675.0 2000.0 2000.0 2000.0 2000.0 2000.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 100.0 150.0 100.0 150.0 1000	Material Ductle Fon Ductle Fon Ductle Fon Ducte Fon	 Pow (Absolve) (m) (double) (m) (double) 7,596 200 1,215 844 126 437 33 129 61 134 141 130 344 141 131 344 141 126 141 141 141 141 141 141 141 141 144 141 144 141 141<td>Velocity (m/s) 0.01 0.01 0.25 0.01 0.28 0.01 0.29 0.19 0.29 0.05 0.19 0.20 0.03 0.03 0.03 0.03 0.19 0.31 0.47 0.03 0.047 0.05 0.01</td><td>Headloss Gradient (rn/m) 0.000</td>	Velocity (m/s) 0.01 0.01 0.25 0.01 0.28 0.01 0.29 0.19 0.29 0.05 0.19 0.20 0.03 0.03 0.03 0.03 0.19 0.31 0.47 0.03 0.047 0.05 0.01	Headloss Gradient (rn/m) 0.000
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22 of 372 a dense:	Search the Table (Current (5) 2 4 4 10 10 10 10 10 10 10 10 10 10	nt Time: 0.000 hours in the second se	In (Priti Model 1	Start Node - 	Stop Node 3-199 2219 3-220 3-230 3-240 3-220 3-220 3-220 3-220 3-220 3-220 3-220 3-240 3-220 3-240 3-220 3-240 3-240 3-240 3-240 3-240 3-240 3-240 3-240 3-240 3-240 3-240 3-229 3-240 3-229 3-240 3-229 3-240 3-250 3-250 3-250 3-250 3-250	Darmeter (rmm) 152.4 250.0 250.0 250.0 250.0 250.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 100.0 150.0 100.0 150.0 100.0 150.0 100.0 150.0 100.0 150.0 100.0 150.0 100	Material Ductle Iron Ductle Iron Ductle Iron Ducte Iron	 Pow (Absolve) (m)/dob Fow (Absolve) (m)/dob 7,596 2,200 1,215 844 1,26 4,377 3,31 1,219 6,1 1,215 1,214 1,216 1,215 1,215 1,214 1,215 1,215	Velocity (m/s) 0.01 0.01 0.25 0.01 0.25 0.01 0.29 0.19 0.29 0.12 0.19 0.20 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.03 0.05 0.19 0.03 0.04 0.05 0.04 0.05 0.04 0.05 0.04	Headbas Gradent (m/m) 0.0000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.000000
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22 of 272 a denser	Search se Table (Curre (5) 2 9 9 10 10 10 10 10 10 10 10 10 10	nt Time: 0.000 hours in the second se	In: (Priti Model 1	Start Node 3-221 3-222 3-222 3-225 3-227 3-227 3-227 3-227 3-228 3-229 3-242 3-242 3-242 3-242 3-242 3-242 3-242 3-259 3-242 3-259 3-242 3-259 3-25	Stop Node 3-199 2219 3-220 3-230 3-230 3-230 3-230 3-230 3-230 3-230 3-230 3-230 3-230 3-230 3-230 3-230 3-240 3-229 3-229 3-229 3-229 3-243 3-245 3-259 3-259 3-259 3-259 3-259 3-259 3-259 3-259 3-259 3-259 3-259 3-259 3-259 3-259 3-259 3-259 3-259 3-259 3-264	Darmeter (rmm) 152.4 675.0 2000.0 2000.0 2000.0 2000.0 2000.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 100.0 150.0 100.	Material Ductle Iron Ductle Iron	 Pow (Abcodre) (m) (double) Pow (Abcodre) (double	Velocity (m/s) velocity (m/s) 001 0.01 0.25 0.01 0.25 0.01 0.29 0.19 0.29 0.05 0.06 0.06 0.07 0.08 0.09 0.03 0.03 0.03 0.03 0.047 0.051 0.052 0.053 0.019 0.031 0.047 0.052 0.051 0.052 0.051 0.052 0.051 0.052 0.053 0.054 0.055 0.055 0.051 0.052 0.053 0.054 0.054 0.056 0.056 0.056 0.056 0.056	Headbas Gradent (m/m) 0.0000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.000000
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22 of 322 a dense:	Search se Table (Curre (5) 2 9 10 10 10 10 10 10 10 10 10 10	nt Time: 0.000 hours in the second se	In: (Priti Model 1	Start Node - 	Stop Node 3-199 2219 2219 3-52 3-167 3-95 3-52 3-200 3-220 3-220 3-220 3-220 3-220 3-220 3-220 3-220 3-220 3-220 3-220 3-220 3-220 3-240 3-229 3-240 3-259 2-269 2-289 2-289 2-289 2-289 2-289 2-289 2-289 2-289 2-289 2-289 2-289 2-289 2-289 2-289 2-289 2-289 2-289 2-284 2-284 2-284 2-284 2-284 <td>Dameter (rmm) 152.4 675.0 2000.0 2000.0 2000.0 2000.0 100.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 100.0 150.0 100.0 150.0 100.0</td> <td>Material Ductle Iron Ductle Iron</td> <td> Fox (Abcodre) (m) (double) Fox (Abcodre) (m) (double) 7.596 7.596 1.215 844 1.26 4.37 3.3 3.19 6.1 1.33 3.44 1.45 3.33 3.44 1.41 1.41</td> <td>Velocity (m/s) velocity (m/s) 001 0.01 0.25 0.01 0.25 0.01 0.29 0.19 0.29 0.12 0.03 0.06 0.03 0.03 0.03 0.03 0.03 0.047 0.05 0.01 0.02 0.03 0.047 0.056 0.061 0.062 0.07 0.08 0.09 0.09 0.01 0.023 0.040 0.051 0.052 0.053 0.054 0.054 0.056 0.068 0.0233 0.040</td> <td>Headbas Gradent (m/m) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.000000</td>	Dameter (rmm) 152.4 675.0 2000.0 2000.0 2000.0 2000.0 100.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 150.0 100.0 150.0 100.0 150.0 100.0	Material Ductle Iron Ductle Iron	 Fox (Abcodre) (m) (double) Fox (Abcodre) (m) (double) 7.596 7.596 1.215 844 1.26 4.37 3.3 3.19 6.1 1.33 3.44 1.45 3.33 3.44 1.41 1.41	Velocity (m/s) velocity (m/s) 001 0.01 0.25 0.01 0.25 0.01 0.29 0.19 0.29 0.12 0.03 0.06 0.03 0.03 0.03 0.03 0.03 0.047 0.05 0.01 0.02 0.03 0.047 0.056 0.061 0.062 0.07 0.08 0.09 0.09 0.01 0.023 0.040 0.051 0.052 0.053 0.054 0.054 0.056 0.068 0.0233 0.040	Headbas Gradent (m/m) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.000000
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	ID	Label	Length (Scaled) (m)	Start Node 🧆	Stop Node	Diameter (mm)	Material	(Absolute) (m ^s /day)	Velocity (m/s)	Headloss Gradient (m/m)
918: 0 (Polylin	918	0 (Polyline)-230	78	J-242	J-82	100.0	Ductle Iron	226	0.33	0.002
1016: 0 (Polyli	1016	0 (Polyline)-147	142	3-242	3-125	250.0	Ductle Iron	1,973	0.47	0.001
95: 0 (Polylin	895	0 (Polyline)-16	103	3-244	3-36	100.0	Ductile Iron	35	0.05	0.000
907: 0 (Polylin	907	0 (Polyline)-367	74	J-250	3-53	400.0	Ductile Iron	79	0.01	0.000
915: 0 (Polylin	915	0 (Polyline)-318	108	3-253	3-93	100.0	Ductle Iron	36	0.05	0.000
223: 0 (Polylin	923	0 (Polvine)-101	79	1-254	1-255	100.0	Ductile Iron	27	0.04	0.000
1022: 0 (Polyli	1022	0 (Polyine)-100	147	1-254	1-196	150.0	Ductile Iron	77	0.05	0.000
1029: 0 (Polyli	1079	0 (Pohdpa)-164	194	1.756	1,191	152.4	Ductie Iron	125	0.09	0.000
1029. 0 (Polyli	1029	0 (Polyline) 164	104	J-250	3-101	152.4	Ducue Iron	135	0.09	0.000
1015: 0 (Polyli	1015	0 (Polyine)-311	191	J-257	3-68	300.0	Ductie Iron	977	0.16	0.000
734: 0 (Polylin	934	0 (Polyline)-263	83	J-258	J-259	150.0	Ductie Iron	452	0.30	0.001
1024: 0 (Polyli	1024	0 (Polyline)-340	169	J-258	J-283	100.0	Ductile Iron	57	0.08	0.000
1032: 0 (Polyli	1032	0 (Polyline)-313	194	J-258	J-164	100.0	Ductle Iron	154	0.23	0.001
1033: 0 (Polyli	1033	0 (Polyline)-348	194	J-258	J-164	250.0	Ductile Iron	1,717	0.40	0.001
37: 0 (Polylin	937	0 (Polyline)-329	84	J-259	J-258	250.0	Ductile Iron	1,721	0.41	0.001
000: 0 (Polyli	1000	0 (Polyline)-282	120	3-259	J-186	150.0	Ductle Iron	547	0.36	0.001
938: 0 (Polylin	938	0 (Polvline)-270	94	J-260	3-26	152.4	Ductle Iron	231	0.15	0.000
944: 0 (Polylin	944	0 (Polvine)-355	90	1-260	3-110	100.0	Ductile Iron	62	0.09	0.000
43: 0 (Polylin	943	0 (Polyine)-225	82	1-261	1-117	100.0	Ductie Iron	27	0.04	0.000
Date o (Dahdi	943	O (Debdee) 200	02	1 201	1 350	200.0	Ductic store	27	0.04	0.000
ovo: o (Polyli	1046	0 (Polyine)-366	209	3-201	3-250	250.0	Ducue Iron	44	0.01	0.000
H8: 0 (Polylin	948	0 (Polyline)-285	84	J-262	J-187	100.0	Ductile Iron	28	0.04	0.000
50: 0 (Polylin	950	0 (Polyline)-312	91	J-263	J-51	675.0	Ductile Iron	7,907	0.26	0.000
956: 0 (Polylin	956	0 (Polyline)-17	88	J-264	J-84	100.0	Ductle Iron	30	0.04	0.000
58: 0 (Polylin	958	0 (Polyline)-288	90	J-265	J-266	150.0	Ductle Iron	75	0.05	0.000
1009: 0 (Polyli	1009	0 (Polyline)-292	129	J-265	3-280	150.0	Ductile Iron	44	0.03	0.000
961: 0 (Polylin	961	0 (Polyline)-262	93	3-266	3-265	150.0	Ductile Iron	74	0.05	0.000
994: 0 (Polylin	994	0 (Polyline)-287	112	3-266	3-122	150.0	Ductle Iron	249	0.16	0.000
66: 0 (Polylin	966	0 (Polyine)-140	93	1-268	1-190	150.0	Ductile Iron	31	0.02	0.000
272: 0 (Polylin	972	0 (Poh/ine)-337	101	1-269	1-105	300.0	Ductile Iron	473	0.08	0.000
aga: 0 (Pohdin	972	0 (Pohdpa)-217	101	1-372	1,122	100.0	Ductie Iron	973	0.05	0.000
LOGIL O (Polyilli	983	o (r Oryme)/31/	109	3-2/3	3.100	100.0	Ductie Iron	37	0.05	0.000
LOOZ: O (Polyli	1002	0 (Polyme)-67	123	3-277	3-100	100.0	Ducue Iron	42	0.06	0.000
1005: 0 (Polyli	1005	0 (Polyline)-257	128	J-278	3-279	300.0	Ductile Iron	43	0.01	0.000
1020: 0 (Polyli	1020	0 (Polyline)-352	145	J-282	J-213	150.0	Ductile Iron	49	0.03	0.000
1027: 0 (Polyli	1027	0 (Polyline)-18	181	J-284	J-89	100.0	Ductle Iron	61	0.09	0.000
1036: 0 (Polyli	1036	0 (Polyline)-363	210	J-286	J-82	150.0	Ductile Iron	281	0.18	0.000
1050: 0 (Polyli	1050	0 (Polyline)-149	318	J-289	J-148	100.0	Ductile Iron	108	0.16	0.000
1054: 0 (Polyli	1054	0 (Polyline)-256	593	3-290	3-278	300.0	Ductle Iron	201	0.03	0.000
1067: P-1	1067	P-1	2	T-5	3-68	725.0	Ductle Iron	9.058	0.25	0.000
1068: P-2	1068	P-2	2	T-5	1-59	675.0	Ductile Iron	8,937	0.29	0.000
	1084	P-0	2	P-4	7.6	1 000 0	Ductie Iron	40.39.369	59.26	1.507
084 0.0		1	3	10-14		1,000.0	Loucas Iron	40,20,200	59.30	1.397

• COMPUTATION



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• HYDRA

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HYDRA	AULIC MODEL INVENTO	DRY										
	Hyd	Iraulic N	lode	l Inventory: Priti M	Nodel 1.wtg							
	Title			-	_							
	Engineer											
	Company											
	Date	21	-03-20	23								
	Notes											
	Scenario Summary											
	ID	1										
	Label	Ba	ise									
	Notes Active Tepplogy	D-		a Tapalaay								
	Active Topology	De	Se ACUN	ien.								
	Physical	Ba	se Phys	sical								
	Demand Initial Sottings	Do	ise Den									
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	SCADA	Ba										
	User Data Extensions	Ba		Data Extensions								
	Steady State/EPS Solver Ca	lculation	ise osei	Data Extensions								
	Options	Ba	Base Calculation Options									
	Transient Solver Calculation	Options Ba	se Calc	ulation Options	and							
		•		•								
	Network Inventory											
	Pipes		372	Pumps	0							
	Laterals		0	Pump Stations	0							
	Junctions		290	Variable Speed Pump	0							
				Batteries								
	Hydrants		0	PRV's	0							
	Tanks		1	PSV's	0							
	-Circular		1	PBV's	0							
	-Non-Circular		0	FCV's	0							
	-Variable Area		0	TCV's	0							
	Reservoirs		1	GPV's	0							
	Customer Meters		0	Isolation Valves	0							
	Taps		0	Spot Elevations	0							
	SCADA Elements		0									
Trees	i de la constante de la consta											
Turki	lent Network Inventory			Durature Dieke								
Perio	dic Head-Flows	0		Discharges to Atmosphere	0							
Air Va	alves	o		Orifices Between Pipes	0							
Hydro	opneumatic Tanks	0		Valves With Linear Area	0							
Surge	e Valves	0		Change Surge Tanks	0							
Sarge		•		Surge runks	0							
Priti Mod	el 1.wtg	Bentley Sys	tems, In	c. Haestad Methods Solution Center	WaterGEMS CONNECT Edition Update 2 [10.02.03.06]							
18-04-20	23	27 Sie Watertow	mon Cor n, CT 06	npany Drive Suite 200 W 795 USA +1-203-755-1666	Page 1 of 2							

U 2	draulic Model I	nventory: Priti Mo	del 1.wtg
Transient Network Invent	tory		
Check Valves	0		
Pressure Pipes Inventory	r		
100.0 (mm)	10,003 m	400.0 (mm)	1,009 m
150.0 (mm)	5,421 m	450.0 (mm)	487 m
152.4 (mm)	1,123 m	675.0 (mm)	1,485 m
200.0 (mm)	1,523 m	725.0 (mm)	2 m
250.0 (mm)	2,369 m	1,000.0 (mm)	5 m
300.0 (mm)	3.194 m	All Diameters	26,622 m

PIPE INVENTORY

kground Layers # x	Priti Model 1.wtg								
Background Layers	Base ~	😵 🚺 🔍 🔍 🔍 🕷	9 - *						
					-				
		🖄 Pressure Pip	e Inventory			-	o x		
		٩							
		Pipes						-	
			Diameter (mm)	Length (Ductile Iron) (m)	Length (Al Materials) (m)	Volume (m³)			-
		100.0 (mm)	100.0	10,003	10,003	78.56		1-1	1
		150.0 (mm)	150.0	5,421	5,421	95.80			
		152.4 (mm)	152.4	1,123	1,123	20.48			
		250.0 (mm)	200.0	2 369	2 369	116 31			
		300.0 (mm)	300.0	3,194	3,194	225.76			
		400.0 (mm)	400.0	1,009	1,009	126.84			
		450.0 (mm)	450.0	487	487	77.46			
		6/5.0 (mm)	6/5.0	1,485	1,485	531.50		-	
		1.000.0 (mm)	1 000 0	5	5	4.18			~ \
		All Diameters	Al Diameters	26,622	26,622	1,325.58			1
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						Clos	e Help	1	
	User Notifications User Notifications Alerts and	Alarms							
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	Message Scenario	Element Type Eleme	Label T	ime (hours) Messag	9			Source	
	3 40022 Base	Tank 1066	T-5	0.001 Tank T-	is full.			Calculation War	
	40022 Base 40022 Base	Tank 1066	T-5 T-5	1.000 Tank T-1	is full. Sie full			Calculation War	
	0 40022 Base	Tank 1066	T-5	3.000 Tank T-	is full.			Calculation War	
	6 40022 Base	Tank 1066	T-5	4.000 Tank T-	is full.			Calculation War	
								V: 12 42 206 05 ft V: 67 06 691 50 ft	

CHAPTER 6

CONCLUSION

- Water distribution network is analysed firstly and we found out that many of lines were out of age and need to design new network among the study area.
- We designed the network using survey file of PMC and we found out that we have less scope of work for new design as major part of network has not been completed 30 years of span.
- While designing network we found that elevations and undulations are unsteady and major work is to be done for pressure and flow parameters.
- Mostly all parameters are taken into consideration while designing water distribution network.
- By using hardy cross method and by doing manual calculations we studied flow in loops of our network.

We selected material, diameters and all other parameters to design actual water distribution network to be implementated.

CHAPTER 7

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