

Relacion Teknik:

"Përmirësim furnizimi me uje blloku Nr.61" Kufizuar nga Rr."Ymer Ndregjoni,Aleksander Moisiu,Xhenfize Keko,Kahraman Ylli"

Qëllimi :

Projekti mbi përmirësimin e furnizimit me uje: Blloku i banimit që kufizohet nga Rr.Ymer Ndregjoni,Aleksander Moisiu,Xhanfize Keko,Kahreman Ylli ka për qëllim, nxjerrjen jashtë funksionit të rrjetit ekzistues, i ndërtuar para viteve 1990, i përbërë kryesisht nga materiale gize dhe xing, të cilat paraqesin humbje të konsiderueshme, ndotje etj.

Qëllimi i projektit gjithashtu qëndron, në përmirësimin parametrave hidraulik të tubacioneve me material PE, të cilat janë investuar nga Bashkia e Tiranës dhe lidhjen e të gjithë objekteve të banimit me këtë rrjet.

Me poshtë një planvendosje e objektit:



Objekti paraqet një sipërfaqe $S=26$ ha, ku dominojnë objektet e banimit 5-6kt, pra me popullsi $N=15,000$ banorë

Zgjidhja Teknike :

Projekti parashikon qe rrjeti i gize+xing. te nxirret gradualisht jashte funksionit, pasi ne kete menyre mund te shmangen mungesat e theksuara te furnizimit me uje. Kjo do te realizohet permes ndertimit te nje by-pass, provizor deri ne perfundim te punimeve, duke lidhur tubacionin e gizes DN-250mm me tubacionin e ri PE Dj-250mm. Persa i perket tubacioneve ekzistuese te gizes DN-150,DN-100,DN-80, ato mund te manovrohen ne menyre te pavarur, deri ne mbylljen perfundimtare.

Projekti parashikon, per faktin se rrjeti PE i ndertuar nga Bashkia Tirane, gjate modelimit hidraulik paraqet, parametra hidraulik si shpejtesia, ne vlera te tilla, te cilat nuk sigurojne nje vleren presioni minimal ne rrjet i cili eshte 1.5atm, rikonstruksionin e disa tubacioneve. Keto nderhyrje jane minimale dhe te domosdoshme me qellim pershtatjen me skemen e re.

Skema e re, parashikon ndarjen e zones ne dy blloke kryesor. Blloku i siperm dhe ai i poshtem kufizohen nga Rr."Belul Hatibi". Ndarja e zonave do te realizohet sipas detajeve te projektit.

Llogaritjet hidraulike me qellim dimensionim e rrjetit shperndares te ujesjellesit jane realizuar duke u nisur nga te dhenat e detyres se projektimit dhe sipas normave te furnizimit me uje per zonen e fshatit :

- Numri i familjeve në zonë

Nga studimi i zones, projekti do te mbuloje nje siperfaqe $S=32$ ha, e cila

- Per zona me ndertesa 4-6kt dendesia merret 300-600 banore/ha
- Per zona me ndertesa 2-3kt dendesia merret 200-300 banore/ha
- Per zona me ndertesa individuale 1-2kt dendesia merret 50-100 banore/ha

Numri i Popullsise permes vleresimit eshte llogaritur $N=7500$ banore

Prurja e Projektit me te dhena:

Norma e furnizimit me uje $n=250$ l/ba*dite

Oret e furnizimit me uje $t=6$ ore

Llogarisim prurjet karakteristike

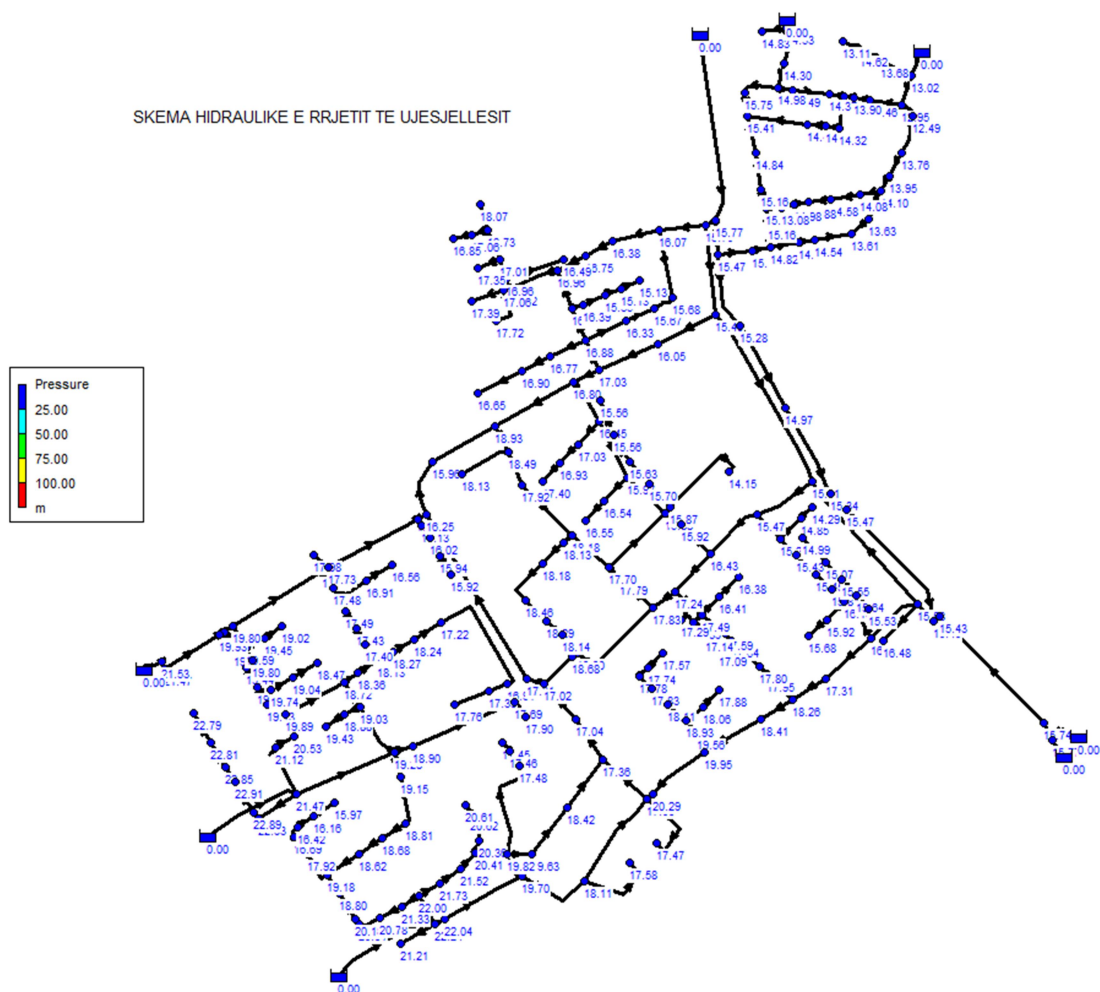
$$Q_{\max}^{\text{ditore}} = \frac{N_2 \cdot n}{1000} = \frac{7500 \cdot 250}{1000} = 1875 \text{ m}^3/\text{ditë}$$

$$Q_{\text{mes}}^{\text{orare}} = \frac{Q_{\max}^{\text{dit}}}{6} = \frac{1875}{6} = 312.5 \text{ m}^3/\text{orë}$$

$$Q_{\max}^{\text{orare}} = Q_{\text{mes}}^{\text{orare}} \cdot K = 312.5 \cdot 2 = 625 \text{ m}^3/\text{orë}$$

$$q_{\max}^{\text{sek}} = \frac{Q_{\max}^{\text{orare}}}{3600} = \frac{625 \cdot 1000}{3600} = 173.6 \text{ l/sek}$$

Zgjidhja teknike e paraqitur parashikon ndertimin e rrjetit shperndares, degezimet e objekteve te shoqeruara me kaseta metalike dhe saracineska. Presioni i lire në pikën me te larget $H_{\text{lire}}=1.5\text{atm}$



Skema Hidraulike e Propozuar

Me poshte ne forme tabelare te rezultatet e modelimit

Network Table - Nodes				
	Base Demand	Demand	Head	Pressure
Node ID	LPS	LPS	m	m
Junc 1	0	0	163.59	19.89
Junc 2	0.9	0.9	163.31	19.61
Junc 3	0.9	0.9	163.14	19.44
Junc 4	0.9	0.9	163.05	19.15
Junc 5	0.9	0.9	163.04	19.13
Junc 6	0.9	0.9	163.44	19.04
Junc 7	0.9	0.9	163.37	18.47
Junc 8	0.9	0.9	163.32	19.02
Junc 9	0.9	0.9	163.37	19.45
Junc 10	0	0	163.55	19.59
Junc 11	0	0	163.58	19.8
Junc 12	0	0	163.64	19.74
Junc 13	0	0	163.8	19.89
Junc 14	0.9	0.9	164.18	20.53
Junc 15	0	0	163.59	18.72
Junc 16	0.9	0.9	163.46	18.36
Junc 17	0.9	0.9	163.33	18.13
Junc 18	0.9	0.9	163.27	18.27
Junc 19	0.9	0.9	163.24	18.24
Junc 20	0.9	0.9	163.22	17.22
Junc 21	0	0	163.22	16.91
Junc 22	0	0	163.22	17.33
Junc 23	0	0	163.22	17.76
Junc 24	0.9	0.9	164.07	21.47
Junc 25	0	0	163.63	19.93
Junc 26	0	0	163.55	19.8
Junc 27	0	0	163.15	17.75
Junc 28	0	0	163.13	17.98
Junc 29	0	0	163.13	17.73
Junc 30	0.9	0.9	162.64	16.91
Junc 31	0.9	0.9	162.9	17.48
Junc 32	0.9	0.9	162.7	17.49
Junc 33	0.9	0.9	162.63	17.43
Junc 34	0.9	0.9	162.61	17.4
Junc 35	0.9	0.9	162.56	16.56
Junc 36	0	0	163.05	16.25
Junc 37	0.9	0.9	162.93	16.13
Junc 38	0.9	0.9	162.82	16.02
Junc 39	0.9	0.9	162.74	15.94
Junc 40	0.9	0.9	162.72	15.92
Junc 41	0	0	163.05	16.25

Junc 42	0	0	163.78	17.31
Junc 43	0	0	163.87	17.02
Junc 44	0.9	0.9	164.59	21.12
Junc 45	0	0	166.07	21.47
Junc 46	0.9	0.9	163.43	19.43
Junc 47	0.9	0.9	163.48	18.88
Junc 48	0	0	163.63	19.03
Junc 49	0	0	163.94	19.28
Junc 50	0.9	0.9	165.93	22.93
Junc 51	0.9	0.9	165.59	22.79
Junc 52	0.9	0.9	165.61	22.81
Junc 53	0.9	0.9	165.65	22.85
Junc 54	0.9	0.9	165.71	22.91
Junc 55	0	0	165.89	22.89
Junc 57	2.8	2.8	163.9	18.9
Junc 58	0	0	163.87	17.69
Junc 59	0.2	0.2	163.87	17.9
Junc 60	0	0	164.14	17.06
Junc 61	0	0	164.25	18.11
Junc 62	0	0	163.99	17.04
Junc 63	0.9	0.9	164.18	17.58
Junc 64	0.9	0.9	164.07	17.47
Junc 65	0	0	164.11	17.36
Junc 66	2	2	164.12	18.42
Junc 67	0	0	164.13	19.63
Junc 68	2.2	2.2	165.81	21.21
Junc 69	0	0	165.84	22.24
Junc 70	0.5	0.5	165.64	22.04
Junc 71	0	0	164.39	19.7
Junc 72	0	0	165.6	22
Junc 73	0.9	0.9	165.33	21.73
Junc 74	0.9	0.9	165.12	21.52
Junc 75	0.9	0.9	165.01	20.41
Junc 76	0.9	0.9	164.96	20.36
Junc 77	0.9	0.9	164.92	20.62
Junc 78	0.9	0.9	164.91	20.61
Junc 79	0.6	0.6	163.91	20.31
Junc 80	0.9	0.9	163.78	20.18
Junc 81	0.9	0.9	163.4	18.8
Junc 82	0	0	163.18	19.18
Junc 83	0.9	0.9	161.92	17.92
Junc 84	0.9	0.9	163.22	18.62
Junc 85	0.9	0.9	163.28	18.68
Junc 86	0.9	0.9	163.41	18.81
Junc 87	0.3	0.3	163.75	19.15
Junc 88	0.9	0.9	161.29	16.69

Junc 89	0.9	0.9	161.02	16.42
Junc 90	0.9	0.9	160.76	16.16
Junc 91	2.8	2.8	160.57	15.97
Junc 92	0.9	0.9	164.38	20.78
Junc 93	0.9	0.9	164.93	21.33
Junc 94	0.9	0.9	165.27	17.57
Junc 95	0.9	0.9	165.44	17.74
Junc 96	0.9	0.9	165.48	17.78
Junc 97	0.9	0.9	165.63	17.83
Junc 98	0.9	0.9	165.91	18.11
Junc 99	0	0	166.96	19.56
Junc 100	0	0	166.43	18.93
Junc 101	0.9	0.9	165.86	18.06
Junc 102	0.9	0.9	165.68	17.88
Junc 103	2.8	2.8	167.39	20.29
Junc 104	5.6	5.6	167.51	18.41
Junc 105	0	0	167.56	18.26
Junc 106	0.9	0.9	167.03	17.95
Junc 107	0.9	0.9	166.88	17.8
Junc 108	0.9	0.9	166.55	17.64
Junc 109	0.9	0.9	166.5	17.59
Junc 110	0.9	0.9	165.99	17.09
Junc 111	0.9	0.9	166.04	17.14
Junc 112	0	0	166.19	17.39
Junc 113	0	0	166.4	17.49
Junc 114	0.9	0.9	166.31	16.41
Junc 115	0.9	0.9	166.28	16.38
Junc 116	0.9	0.9	166.09	17.29
Junc 117	3	3	167.61	17.31
Junc 118	0	0	167.69	16.39
Junc 119	2.8	2.8	167.86	15.58
Junc 120	0	0	167.97	15.4
Junc 121	0	0	168	15.43
Junc 123	0.85	0.85	168.69	15.74
Junc 124	0.3	0.3	167.84	15.01
Junc 125	0.2	0.2	167.97	15.34
Junc 126	0.2	0.2	167.97	15.47
Junc 127	2	2	166.93	15.47
Junc 128	0.9	0.9	166.94	15.29
Junc 129	0.9	0.9	166.69	14.85
Junc 130	0.9	0.9	166.57	14.29
Junc 131	0.9	0.9	167.03	15.43
Junc 132	0.9	0.9	167.21	15.45
Junc 133	0.9	0.9	167.3	15.81
Junc 134	0	0	167.38	16.15
Junc 135	0.9	0.9	167.15	15.92

Junc 136	2	2	166.91	15.68
Junc 137	0.9	0.9	166.75	14.99
Junc 138	0.9	0.9	166.83	15.07
Junc 139	0.9	0.9	167.04	15.55
Junc 140	0.9	0.9	166.87	15.64
Junc 141	0.9	0.9	166.76	15.53
Junc 142	0	0	166.61	16.43
Junc 143	0.6	0.6	166.44	17.24
Junc 144	0	0	166.41	17.83
Junc 145	1.8	1.8	166.39	17.79
Junc 146	0	0	166.39	17.7
Junc 147	0	0	166.32	15.88
Junc 148	0	0	166.27	15.87
Junc 149	0.9	0.9	166.05	14.15
Junc 150	0	0	166.44	18.18
Junc 151	0	0	166.37	15.97
Junc 152	0	0	166.65	16.45
Junc 153	0.9	0.9	165.33	16.55
Junc 154	0.9	0.9	165.54	16.54
Junc 155	0.9	0.9	166.43	17.03
Junc 156	0.9	0.9	166.33	16.93
Junc 157	0.9	0.9	166.3	17.4
Junc 158	0	0	167.23	18.93
Junc 159	6	6	162.96	15.96
Junc 160	0	0	166.99	18.49
Junc 161	0.5	0.5	166.77	17.92
Junc 162	0.5	0.5	166.63	18.13
Junc 163	0	0	166.38	18.6
Junc 164	0	0	166.38	18.68
Junc 165	0.9	0.9	166.39	18.13
Junc 166	0	0	166.37	18.18
Junc 167	0.9	0.9	166.32	18.46
Junc 168	0.5	0.5	166.32	18.29
Junc 169	0.9	0.9	166.33	18.14
Junc 170	0	0	167.3	16.8
Junc 171	0	0	167.43	17.03
Junc 172	2.5	2.5	167.62	16.05
Junc 173	0	0	167.85	15.49
Junc 174	0.9	0.9	165.96	15.56
Junc 175	0.9	0.9	165.98	15.56
Junc 176	0.9	0.9	166.03	15.63
Junc 177	0.9	0.9	166.12	15.7
Junc 178	0.69	0.69	166.65	16.65
Junc 179	0.69	0.69	166.9	16.9
Junc 180	0.69	0.69	166.97	16.77
Junc 181	0	0	167.15	16.88

Junc 182	0.69	0.69	167.13	16.33
Junc 183	0.69	0.69	167.13	15.67
Junc 184	0.69	0.69	167.14	15.68
Junc 185	0	0	166.98	16.98
Junc 186	0.69	0.69	166.39	16.39
Junc 187	0.69	0.69	165.56	15.35
Junc 188	0.69	0.69	165.33	15.13
Junc 189	0.69	0.69	165.23	15.13
Junc 190	0	0	167.47	16.07
Junc 191	0	0	167.99	15.79
Junc 192	2	2	167.08	16.38
Junc 193	0	0	166.52	17.12
Junc 194	0	0	166.46	16.96
Junc 195	0	0	166.86	16.96
Junc 196	1.6	1.6	166.95	16.75
Junc 197	1	1	166.29	16.49
Junc 198	1.38	1.38	166.23	17.72
Junc 199	1.38	1.38	166.29	17.39
Junc 200	0	0	166.46	17.06
Junc 201	0.8	0.8	166.35	17.01
Junc 202	1.38	1.38	166.3	17.35
Junc 203	1.38	1.38	166.07	18.07
Junc 204	1.38	1.38	166.13	16.73
Junc 205	0.69	0.69	166.06	17.06
Junc 206	0.5	0.5	166.05	16.85
Junc 207	0	0	168.02	15.77
Junc 208	0.6	0.6	167.97	14.97
Junc 209	0.6	0.6	167.98	15.28
Junc 210	0	0	167.99	15.47
Junc 211	0.69	0.69	167.72	15.12
Junc 212	0	0	167.62	14.82
Junc 213	1.6	1.6	167.55	14.65
Junc 214	0.5	0.5	167.54	14.54
Junc 215	1.6	1.6	167.54	13.61
Junc 216	0.5	0.5	167.56	13.63
Junc 217	0	0	167.6	14.1
Junc 218	0.5	0.5	167.65	13.95
Junc 219	0.5	0.5	167.76	13.76
Junc 220	0.5	0.5	167.58	14.08
Junc 221	0.5	0.5	167.58	14.58
Junc 222	0.5	0.5	167.58	14.88
Junc 223	0.5	0.5	167.58	14.98
Junc 224	0.5	0.5	167.58	15.08
Junc 225	0.5	0.5	167.61	15.16
Junc 226	0	0	167.6	15.13
Junc 227	0.5	0.5	167.61	15.16

Junc 228	0.69	0.69	167.64	14.84
Junc 229	0.69	0.69	167.69	15.41
Junc 230	0	0	167.71	14.41
Junc 231	0	0	167.72	14.42
Junc 232	1.6	1.6	167.72	14.32
Junc 233	0	0	167.87	14.52
Junc 234	0.5	0.5	167.87	14.37
Junc 235	0.5	0.5	167.87	14.49
Junc 236	0	0	167.88	14.98
Junc 237	0.69	0.69	167.75	15.75
Junc 238	0.5	0.5	167.96	13.46
Junc 239	0.5	0.5	167.9	13.9
Junc 240	0	0	168.12	12.95
Junc 241	0.5	0.5	167.99	12.49
Junc 242	0	0	168.82	13.02
Junc 243	0.5	0.5	168.68	13.68
Junc 244	0.5	0.5	168.62	14.62
Junc 245	1	1	168.11	13.11
Junc 246	0.5	0.5	168	14.3
Junc 250	0	0	168.23	14.53
Junc 251	1	1	167.66	14.83
Junc 253	0	0	164.13	21.53
Junc 254	0.9	0.9	164.05	17.45
Junc 255	0.9	0.9	164.06	17.46
Junc 256	0.9	0.9	164.08	17.48
Junc 257	1.8	1.8	166.36	15.92
Junc 259	0	0	168.77	15.77
Junc 258	0	0	164.22	19.82
Junc 260	0	0	167.4	19.95
Junc 261	2.8	2.8	167.78	16.48
Resvr 56	#N/A	-24.66	166.32	0
Resvr Lidhja_ne_600_GS	#N/A	-45.88	168.8	0
Resvr 247	#N/A	-43.12	168.68	0
Resvr 248	#N/A	-4.98	168.42	0
Resvr 249	#N/A	-9.71	169.8	0
Resvr 252	#N/A	-14.13	164.6	0
Resvr Lidhja_ne_160	#N/A	-4.62	168.8	0
Resvr 122	#N/A	-28.1	166.31	0

$\Sigma Q=175.2$ l/sek

PROJEKTUES

Ing.Endri PIERO

PERGJ.SEKTORIT PROJEKTIMIT

Ing.Albana MILO



