

DLYFT INDIA LLP

HYDRAULIC CALCULATIONS

Hydraulic Calculation Summary Report

Project: Proposed Building Plan – M/s DLYFT INDIA LLP

Location: VPO Kahni, District Rohtak, Haryana

Date: 01 August 2025

1. System Overview

- System Type: Wet Pipe System
- Sprinkler System: Ordinary Hazard – Group 1
- Hydrant System: Class I (2 x 63mm landing valves)
- Design Area: Mezzanine Floor
- Duration: 60 minutes (sprinkler flow)

2. Sprinkler System Design Data

- Hazard Classification: Ordinary Hazard Group 1
- Design Density: 0.15 gpm/sq.ft
- Remote Area Size: 1500 sq.ft
- Sprinkler Coverage per Head: 130 sq.ft
- Number of Operating Sprinklers (max): 12
- Sprinkler K-Factor: K5.6
- Temperature Rating: 68 °C
- Minimum Required Pressure at End Sprinkler: 12.12 psi
- Hose Stream Allowance: 250 gpm
- Water Supply Duration: 60 minutes

CALCULATING END SPRINKLER FLOW IN REMOTE AREA

Design Density = 0.15 gpm/sq ft

Maximum area covered by one sprinkler = 130 sq. ft

Flow required at end sprinkler = 0.15 x 130 gpm

= 19.5 gpm

CALCULATING END SPRINKLER PRESSURE

Using equation.

$Q = K \times \sqrt{P}$

Where, Q = Flow in gpm (gallons per minute)

K = Sprinkler constant given by manufacture data sheet

P = Pressure at sprinkler in psi (pound per square inch)

Once the flow (Q) is calculated, the required pressure (P) can be calculated by simply rearranging the above formula:

$$P = \left(\frac{Q}{K}\right)^2$$

Q = 19.5 gpm

K = 5.6

Therefore, Pressure required at end sprinkler = $(19.5/5.6)^2 = 12.12$ psi.

Therefore, our calculation shall start at Pressure P = 12.12 psi.

3. Hydrant System Design Data

- System Type: Wet Hydrant System
- Remote Area Location: Mezzanine Floor
- Landing Valves Considered: 2 Nos. x 63mm (2½")
- Flow per Landing Valve: 250 gpm
- Total Hydrant Demand: 500 gpm
- Required Residual Pressure at Landing Valve: ≥ 100 psi (as per NFPA 14)

4. Supply vs Demand Analysis

Sprinkler System:

- Demand Flow (sprinklers only): ~234 gpm
- Minimum Pressure Required: 12.12 psi
- System supplied via pumps; water source (Underground Tank)

Hydrant System:

- Total Flow at Source: 500 gpm
- Landing Valve-1 Pressure: 106.6 psi
- Landing Valve-2 Pressure: 106.5 psi
- Minimum Required Pressure Met: Yes

5. Fire Pump Size Recommendation

- Combined Maximum Demand (Sprinkler + Hose Stream + Hydrant):

- **Sprinkler System: 234 gpm**
- **Hose Stream Allowance: 250 gpm**
- **Hydrant Demand: 500 gpm**

- Total Flow Required: 984 gpm

- Recommended Fire Pump Size: 1000 gpm @ 124 psi (8.5 Bar)

- Jockey Pump: 100 gpm @ 130 psi (8.5 Bar) (for pressure maintenance)

- Consider additional margin as per local code or authority having jurisdiction (AHJ)

6. Compliance Check

- Sprinkler Flow & Pressure: 
- Hydrant Flow (500 gpm @ >100 psi): 
- System Duration (≥ 60 minutes): 
- Pipe Sizing & Friction Loss Control: 
- Sprinkler Head Spacing & K-Factor: 

7. Conclusion

The hydraulic calculations for both the sprinkler and hydrant systems are adequately designed and meet NFPA standards for Ordinary Hazard (NFPA 13) and Class I Standpipe (NFPA 14) systems.

- Sprinkler system: Verified coverage, pressure, and discharge.
- Hydrant system: Verified delivery of 500 gpm at ≥ 100 psi at remote outlets.
- Pipe sizing and flow velocity within acceptable engineering norms.

The proposed 1000 gpm fire pump rated at 124 (8.5 Bar) psi is suitable for meeting the combined system demand.

Pump Type	Capacity (GPM)	Pressure (PSI)	Remarks
Main Fire Pump	1000	124 (8.5 Bar)	Required if sprinkler and hydrant systems run simultaneously
Jockey Pump	100	130 (9 bar)	For pressure maintenance and small leak compensation

Project: Proposed Building Plan – M/s DLYFT INDIA LLP

Location: VPO Kahni, District Rohtak, Haryana

AUTOMATIC SPRINKLER SYSTEM

HYDRAULIC DEMAND CALCULATIONS

Hydraulic Calculations (Design Data)

Project Name: PROPOSED BUILDING PLAN OF M/s DLYFT INDIA LLP

DESIGN DATA:

Remote Area Location: Mezzanine Floor

System Type: Wet System

Hazard: Light Hazard

Design Density: 0.15 gpm/ sq. ft

Remote Area: Maximum: 1500 SQ. FT

Sprinkler Classification: Pendent Area

Maximum Sprinkler Coverage: 130 sq. ft

Sprinkler K-Factor: K5.6

Sprinkler Temp Rating : 68 deg C

CALCULATING END SPRINKLER FLOW IN REMOTE AREA

Design Density = 0.15 gpm/sq ft

Maximum area covered by one sprinkler = 130 sq. ft

Flow required at end sprinkler = 0.15 x 130 gpm

$$= 19.5 \text{ gpm}$$

CACULATING END SPRINKLER PRESSURE

Using equation.

$$Q = K \times \sqrt{P}$$

Where, Q = Flow in gpm (gallons per minute)

K = Sprinkler constant given by manufacture data sheet

P = Pressure at sprinkler in psi (pound per square inch)

Once the flow (Q) is calculated, the required pressure (P) can be calculated by simply rearranging the above formula:

$$P = \left(\frac{Q}{K}\right)^2$$

$$Q = 19.5 \text{ gpm}$$

$$K = 5.6$$

Therefore, Pressure required at end sprinkler = $(19.5/5.6)^2 = 12.12 \text{ psi}$.

Therefore, our calculation shall start at Pressure P = 12.12 psi.

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WATER SUPPLY DATA

SOURCE NODE TAG	STATIC PRESS. (PSI)	RESID. PRESS. (PSI)	FLOW @ (GPM)	AVAIL. PRESS. (PSI)	TOTAL @ DEMAND (GPM)	REQ'D PRESS. (PSI)
SRC	(N/A)	1.0	(N/A)	1.0	585.6	0.0

AGGREGATE FLOW ANALYSIS:

TOTAL FLOW AT SOURCE	585.6 GPM
TOTAL HOSE STREAM ALLOWANCE AT SOURCE	250.0 GPM
OTHER HOSE STREAM ALLOWANCES	0.0 GPM
TOTAL DISCHARGE FROM ACTIVE SPRINKLERS	335.6 GPM

NODE ANALYSIS DATA

NODE TAG	ELEVATION (FT)	NODE TYPE	PRESSURE (PSI)	DISCHARGE (GPM)
S1	17.0	K= 5.60	12.1	19.5
S2	17.0	K= 5.60	13.6	20.6
S3	17.0	K= 5.60	19.0	24.4
4	19.0	- - - -	21.6	- - -
S4	17.0	K= 5.60	20.4	25.3
S5	17.0	K= 5.60	18.3	23.9
S6	17.0	K= 5.60	12.8	20.0
S7	17.0	K= 5.60	14.3	21.1
S8	17.0	K= 5.60	19.9	25.0
10	19.0	- - - -	22.8	- - -
S9	17.0	K= 5.60	21.4	25.9
S10	17.0	K= 5.60	19.2	24.5
S11	17.0	K= 5.60	20.9	25.6
S12	17.0	K= 5.60	23.3	27.0
15	19.0	- - - -	24.8	- - -
S13	17.0	K= 5.60	23.3	27.0
S14	17.0	K= 5.60	20.9	25.6
18	18.0	- - - -	23.4	- - -
19	18.0	- - - -	24.6	- - -
20	18.0	- - - -	26.4	- - -
21	18.0	- - - -	30.1	- - -
22	18.0	- - - -	31.4	- - -
23	18.0	- - - -	32.7	- - -
24	18.0	- - - -	34.0	- - -
25	18.0	- - - -	34.3	- - -
26	18.0	- - - -	34.7	- - -
27	18.0	- - - -	35.0	- - -
28	18.0	- - - -	35.4	- - -
29	18.0	- - - -	35.7	- - -
30	18.0	- - - -	36.1	- - -
31	18.0	- - - -	36.4	- - -
32	18.0	- - - -	36.7	- - -
33	18.0	- - - -	37.1	- - -
34	18.0	- - - -	37.4	- - -
35	18.0	- - - -	37.9	- - -
36	18.0	- - - -	39.4	- - -

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NODE ANALYSIS DATA

NODE TAG	ELEVATION (FT)	NODE TYPE	PRESSURE (PSI)	DISCHARGE (GPM)
37	9.0	- - - -	43.5	- - -
38	9.0	- - - -	44.8	- - -
39	9.0	- - - -	45.8	- - -
40	0.0	- - - -	49.8	- - -
41	0.0	- - - -	49.9	- - -
42	0.0	- - - -	50.1	- - -
43	-6.5	- - - -	53.0	- - -
44	-6.5	- - - -	53.1	- - -
PUMP-OUT	-6.5	- - - -	53.2	- - -
PUMP-IN	-6.5	- - - -	0.8	- - -
45	-6.5	- - - -	0.8	- - -
SRC	-4.5	SOURCE	0.0	335.6

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PIPE DATA

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.	
NODES		(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C)	(FT)	SUM.	
							FL/FT		(PSI)	
Pipe: 1										
S1		17.0	5.6	12.1	19.5	-19.5	1.049	PL	11.53	PF 1.4
S2		17.0	5.6	13.6	20.6	7.2	120	FTG	----	PE 0.0
							0.124	TL	11.53	PV
Pipe: 2										
S2		17.0	5.6	13.6	20.6	-40.1	1.049	PL	11.53	PF 5.4
S3		17.0	5.6	19.0	24.4	14.9	120	FTG	----	PE 0.0
							0.471	TL	11.53	PV
Pipe: 3										
S3		17.0	5.6	19.0	24.4	-64.5	1.380	PL	5.76	PF 3.5
4		19.0	0.0	21.6	0.0	13.8	120	FTG	T	PE -0.9
							0.299	TL	11.76	PV
Pipe: 4										
4		19.0	0.0	21.6	0.0	49.2	1.380	PL	5.76	PF 2.1
S4		17.0	5.6	20.4	25.3	10.6	120	FTG	T	PE 0.9
							0.181	TL	11.76	PV
Pipe: 5										
S4		17.0	5.6	20.4	25.3	23.9	1.049	PL	11.53	PF 2.1
S5		17.0	5.6	18.3	23.9	8.9	120	FTG	----	PE 0.0
							0.181	TL	11.53	PV
Pipe: 6										
S6		17.0	5.6	12.8	20.0	-20.0	1.049	PL	11.53	PF 1.5
S7		17.0	5.6	14.3	21.1	7.4	120	FTG	----	PE 0.0
							0.130	TL	11.53	PV
Pipe: 7										
S7		17.0	5.6	14.3	21.1	-41.1	1.049	PL	11.53	PF 5.7
S8		17.0	5.6	19.9	25.0	15.3	120	FTG	----	PE 0.0
							0.494	TL	11.53	PV
Pipe: 8										
S8		17.0	5.6	19.9	25.0	-66.2	1.380	PL	5.76	PF 3.7
10		19.0	0.0	22.8	0.0	14.2	120	FTG	T	PE -0.9
							0.313	TL	11.76	PV
Pipe: 9										
10		19.0	0.0	22.8	0.0	50.4	1.380	PL	5.76	PF 2.2
S9		17.0	5.6	21.4	25.9	10.8	120	FTG	T	PE 0.9
							0.190	TL	11.76	PV
Pipe: 10										
S9		17.0	5.6	21.4	25.9	24.5	1.049	PL	11.53	PF 2.2
S10		17.0	5.6	19.2	24.5	9.1	120	FTG	----	PE 0.0
							0.190	TL	11.53	PV
Pipe: 11										
S11		17.0	5.6	20.9	25.6	-25.6	1.049	PL	11.53	PF 2.4
S12		17.0	5.6	23.3	27.0	9.5	120	FTG	----	PE 0.0
							0.206	TL	11.53	PV
Pipe: 12										
S12		17.0	5.6	23.3	27.0	-52.7	1.380	PL	5.76	PF 2.4
15		19.0	0.0	24.8	0.0	11.3	120	FTG	T	PE -0.9
							0.205	TL	11.76	PV
Pipe: 13										
15		19.0	0.0	24.8	0.0	52.7	1.380	PL	5.76	PF 2.4
S13		17.0	5.6	23.3	27.0	11.3	120	FTG	T	PE 0.9
							0.205	TL	11.76	PV

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PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.	
	NODES	(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C)	(FT)	SUM.	
							FL/FT		(PSI)	
	Pipe: 14					25.6	1.049	PL	11.53	PF 2.4
S13		17.0	5.6	23.3	27.0	9.5	120	FTG	----	PE 0.0
S14		17.0	5.6	20.9	25.6		0.206	TL	11.53	PV
	Pipe: 15					-113.7	2.067	PL	1.00	PF 1.3
4		19.0	0.0	21.6	0.0	10.9	120	FTG	T	PE 0.4
18		18.0	0.0	23.4	0.0		0.119	TL	11.00	PV
	Pipe: 16					-113.7	2.067	PL	10.00	PF 1.2
18		18.0	0.0	23.4	0.0	10.9	120	FTG	----	PE 0.0
19		18.0	0.0	24.6	0.0		0.119	TL	10.00	PV
	Pipe: 17					-116.6	2.067	PL	1.00	PF 1.4
10		19.0	0.0	22.8	0.0	11.1	120	FTG	T	PE 0.4
19		18.0	0.0	24.6	0.0		0.125	TL	11.00	PV
	Pipe: 18					-230.3	2.469	PL	10.00	PF 1.9
19		18.0	0.0	24.6	0.0	15.4	120	FTG	----	PE 0.0
20		18.0	0.0	26.4	0.0		0.185	TL	10.00	PV
	Pipe: 19					-105.3	2.067	PL	1.00	PF 1.1
15		19.0	0.0	24.8	0.0	10.1	120	FTG	T	PE 0.4
20		18.0	0.0	26.4	0.0		0.103	TL	11.00	PV
	Pipe: 20					-335.6	2.469	PL	10.00	PF 3.7
20		18.0	0.0	26.4	0.0	22.5	120	FTG	----	PE 0.0
21		18.0	0.0	30.1	0.0		0.371	TL	10.00	PV
	Pipe: 21					-335.6	3.068	PL	10.00	PF 1.3
21		18.0	0.0	30.1	0.0	14.6	120	FTG	----	PE 0.0
22		18.0	0.0	31.4	0.0		0.129	TL	10.00	PV
	Pipe: 22					-335.6	3.068	PL	10.00	PF 1.3
22		18.0	0.0	31.4	0.0	14.6	120	FTG	----	PE 0.0
23		18.0	0.0	32.7	0.0		0.129	TL	10.00	PV
	Pipe: 23					-335.6	3.068	PL	10.00	PF 1.3
23		18.0	0.0	32.7	0.0	14.6	120	FTG	----	PE 0.0
24		18.0	0.0	34.0	0.0		0.129	TL	10.00	PV
	Pipe: 24					-335.6	4.026	PL	10.00	PF 0.3
24		18.0	0.0	34.0	0.0	8.5	120	FTG	----	PE 0.0
25		18.0	0.0	34.3	0.0		0.034	TL	10.00	PV
	Pipe: 25					-335.6	4.026	PL	10.00	PF 0.3
25		18.0	0.0	34.3	0.0	8.5	120	FTG	----	PE 0.0
26		18.0	0.0	34.7	0.0		0.034	TL	10.00	PV
	Pipe: 26					-335.6	4.026	PL	10.00	PF 0.3
26		18.0	0.0	34.7	0.0	8.5	120	FTG	----	PE 0.0
27		18.0	0.0	35.0	0.0		0.034	TL	10.00	PV

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PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.	
NODES		(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C) FL/FT	(FT)	SUM. (PSI)	
	Pipe: 27					-335.6	4.026	PL 10.00	PF 0.3	
27		18.0	0.0	35.0	0.0	8.5	120	FTG ---	PE 0.0	
28		18.0	0.0	35.4	0.0		0.034	TL 10.00	PV	
	Pipe: 28					-335.6	4.026	PL 10.00	PF 0.3	
28		18.0	0.0	35.4	0.0	8.5	120	FTG ---	PE 0.0	
29		18.0	0.0	35.7	0.0		0.034	TL 10.00	PV	
	Pipe: 29					-335.6	4.026	PL 10.00	PF 0.3	
29		18.0	0.0	35.7	0.0	8.5	120	FTG ---	PE 0.0	
30		18.0	0.0	36.1	0.0		0.034	TL 10.00	PV	
	Pipe: 30					-335.6	4.026	PL 10.00	PF 0.3	
30		18.0	0.0	36.1	0.0	8.5	120	FTG ---	PE 0.0	
31		18.0	0.0	36.4	0.0		0.034	TL 10.00	PV	
	Pipe: 31					-335.6	4.026	PL 10.00	PF 0.3	
31		18.0	0.0	36.4	0.0	8.5	120	FTG ---	PE 0.0	
32		18.0	0.0	36.7	0.0		0.034	TL 10.00	PV	
	Pipe: 32					-335.6	4.026	PL 10.00	PF 0.3	
32		18.0	0.0	36.7	0.0	8.5	120	FTG ---	PE 0.0	
33		18.0	0.0	37.1	0.0		0.034	TL 10.00	PV	
	Pipe: 33					-335.6	4.026	PL 10.00	PF 0.3	
33		18.0	0.0	37.1	0.0	8.5	120	FTG ---	PE 0.0	
34		18.0	0.0	37.4	0.0		0.034	TL 10.00	PV	
	Pipe: 34					-335.6	4.026	PL 3.23	PF 0.5	
34		18.0	0.0	37.4	0.0	8.5	120	FTG E	PE 0.0	
35		18.0	0.0	37.9	0.0		0.034	TL 13.23	PV	
	Pipe: 35					-335.6	4.026	PL 33.13	PF 1.5	
35		18.0	0.0	37.9	0.0	8.5	120	FTG E	PE 0.0	
36		18.0	0.0	39.4	0.0		0.034	TL 43.13	PV	
	Pipe: 36					-335.6	6.065	PL 9.00	PF 0.2	
36		18.0	0.0	39.4	0.0	3.7	120	FTG EA	PE 3.9	
37		9.0	0.0	43.5	0.0		0.005	TL 51.00	PV	
	Pipe: 37					-335.6	6.065	PL 242.00	PF 1.3	
37		9.0	0.0	43.5	0.0	3.7	120	FTG 3E	PE 0.0	
38		9.0	0.0	44.8	0.0		0.005	TL 284.00	PV	
	Pipe: 38					-335.6	6.065	PL 185.00	PF 0.9	
38		9.0	0.0	44.8	0.0	3.7	120	FTG E	PE 0.0	
39		9.0	0.0	45.8	0.0		0.005	TL 199.00	PV	
	Pipe: 39					-335.6	6.065	PL 9.00	PF 0.1	
39		9.0	0.0	45.8	0.0	3.7	120	FTG E	PE 3.9	
40		0.0	0.0	49.8	0.0		0.005	TL 23.00	PV	

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PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.
NODES	(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C)	FL/FT	(FT)	SUM.
									(PSI)
Pipe: 40					-335.6	6.065	PL	11.00	PF 0.1
40	0.0	0.0	49.8	0.0	3.7	120	FTG	E	PE 0.0
41	0.0	0.0	49.9	0.0		0.005	TL	25.00	PV
Pipe: 41					-335.6	6.065	PL	3.00	PF 0.2
41	0.0	0.0	49.9	0.0	3.7	120	FTG	TG	PE 0.0
42	0.0	0.0	50.1	0.0		0.005	TL	36.00	PV
Pipe: 42					-335.6	6.065	PL	6.50	PF 0.1
42	0.0	0.0	50.1	0.0	3.7	120	FTG	E	PE 2.8
43	-6.5	0.0	53.0	0.0		0.005	TL	20.50	PV
Pipe: 43					335.6	6.065	PL	4.00	PF 0.2
44	-6.5	0.0	53.1	0.0	3.7	120	FTG	CG	PE 0.0
43	-6.5	0.0	53.0	0.0		0.005	TL	39.00	PV
Pipe: 44					-335.6	6.065	PL	1.00	PF 0.0
44	-6.5	0.0	53.1	0.0	3.7	120	FTG	---	PE 0.0
PUMP-OUT	-6.5	0.0	53.2	0.0		0.005	TL	1.00	PV
Pipe: 45									
PUMP-IN	-6.5	0.0	0.8	0.0					
PUMP-OUT	-6.5	0.0	53.2	0.0					
Pipe: 46					-335.6	6.065	PL	5.00	PF 0.0
PUMP-IN	-6.5	0.0	0.8	0.0	3.7	120	FTG	G	PE 0.0
45	-6.5	0.0	0.8	0.0		0.005	TL	8.00	PV
Pipe: 47					-335.6	6.065	PL	4.00	PF 0.0
45	-6.5	0.0	0.8	0.0	3.7	120	FTG	G	PE -0.9
SRC	-4.5	SRCE	0.0	(N/A)		0.005	TL	7.00	PV

NOTES (HASS):

- Calculations were performed by the HASS computer program in accordance with NFPA (2020) under license no. 66309840 granted by HRS Systems, Inc.
208 Southside Square
Petersburg, TN 37144
(931) 659-9760
- The system has been calculated to provide an average imbalance at each node of 0.004 gpm and a maximum imbalance at any node of 0.101 gpm.
- Total pressure at each node is used in balancing the system. Maximum water velocity is 22.5 ft/sec at pipe 20.
- The Minimum pump suction pressure under maximum calculated demand is 0.80 (psi)
- Items listed in bold print on the cover sheet

DATE: 8/1/2025 ELANCE PROJECTS\PRADEEP INDIA\DLFT INDIA LLP HYDR CALC.SDF

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are automatically transferred from the calculation report.

(6) Available pressure at source node SRC under full flow conditions is
1.00 psi with a flow of 794.93 gpm.

(7) PIPE FITTINGS TABLE

HASS Pipe Table Name: standard

PAGE: A MATERIAL: S40 HWC: 120

Diameter (in)	Equivalent Fitting Lengths in Feet								
	E Ell	T Tee	L LngEll	C ChkVlv	B BfyVlv	G GatVlv	A AlmChk	D DPVlv	N NTee

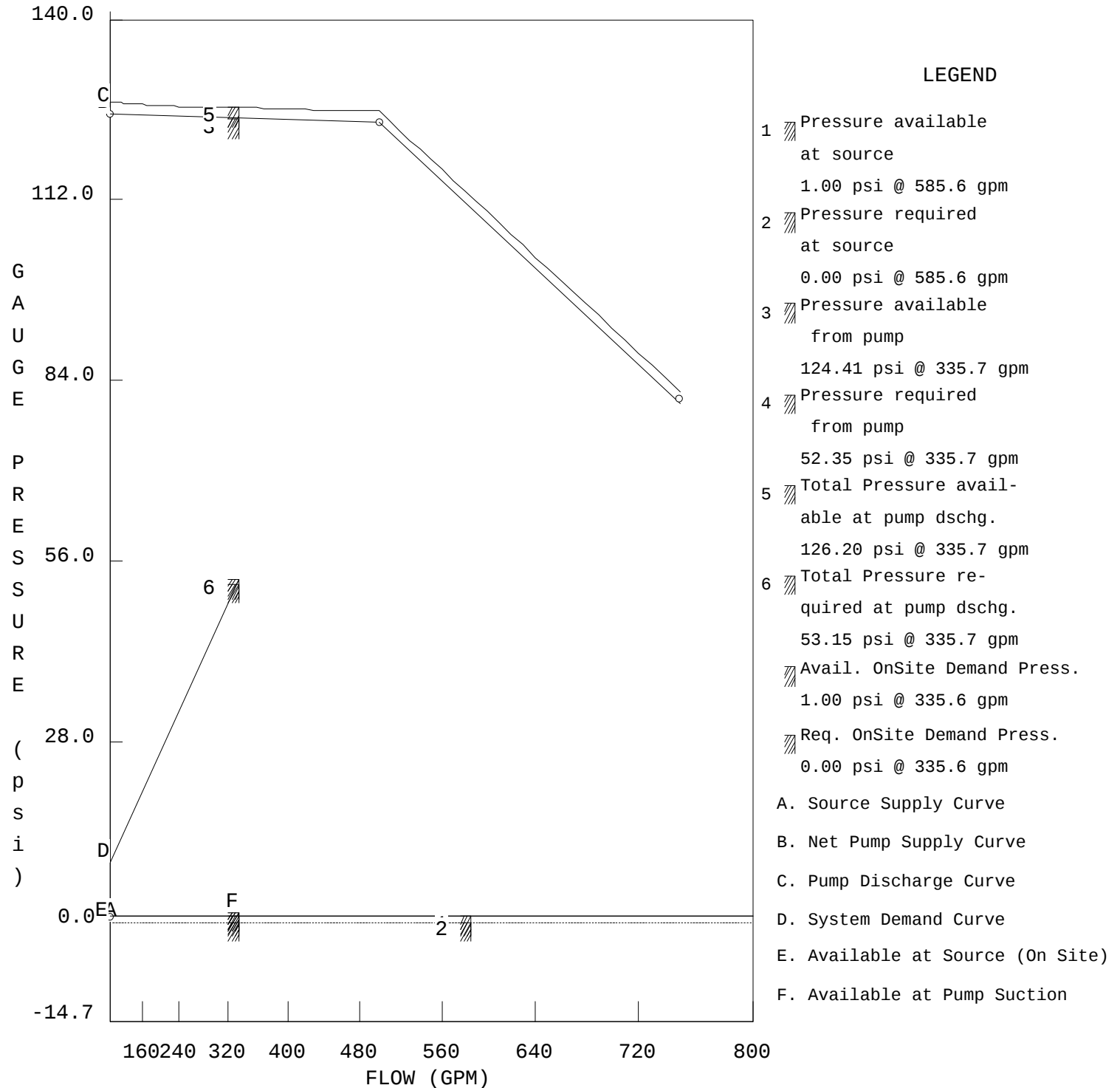
	F F45Ell								
1.049	2.00	5.00	2.00	5.00	6.00	1.00	10.00	2.00	5.00
	1.00								
1.380	3.00	6.00	2.00	7.00	6.00	1.00	10.00	10.00	6.00
	1.50								
2.067	5.00	10.00	3.00	11.00	6.00	1.00	10.00	10.00	10.00
	2.50								
2.469	6.00	12.00	4.00	14.00	7.00	1.00	10.00	10.00	12.00
	3.00								
3.068	7.00	15.00	5.00	16.00	10.00	1.00	13.00	13.00	15.00
	3.50								
4.026	10.00	20.00	6.00	22.00	12.00	2.00	20.00	20.00	20.00
	5.00								
6.065	14.00	30.00	9.00	32.00	10.00	3.00	28.00	28.00	30.00
	7.00								

DATE: 8/1/2025 ELANCE PROJECTS\PRADEEP INDIA\PLYFT INDIA LLP HYDR CALC.SDF

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WATER SUPPLY ANALYSIS

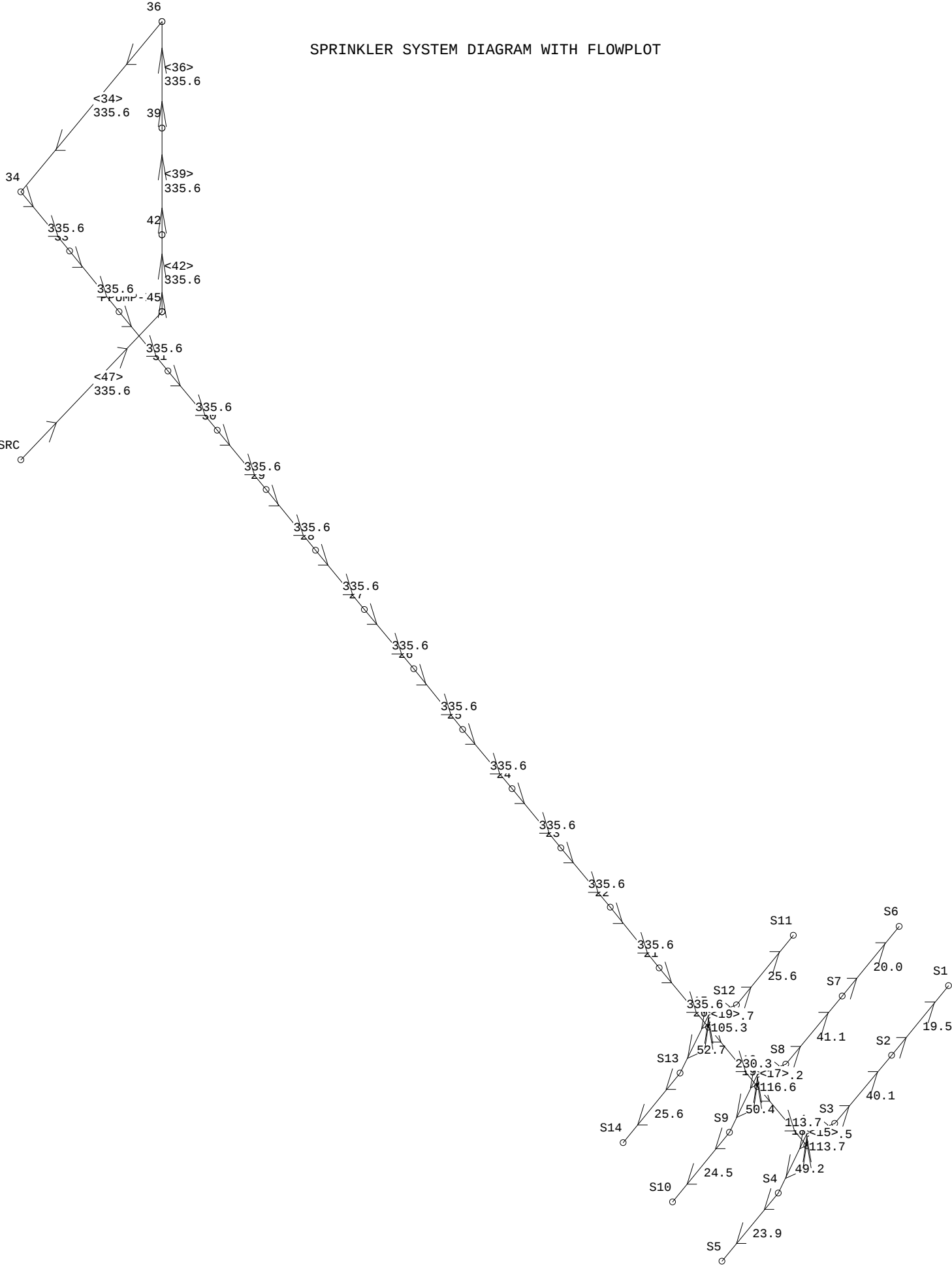
Fixed Source Pressure: 1.00 psi



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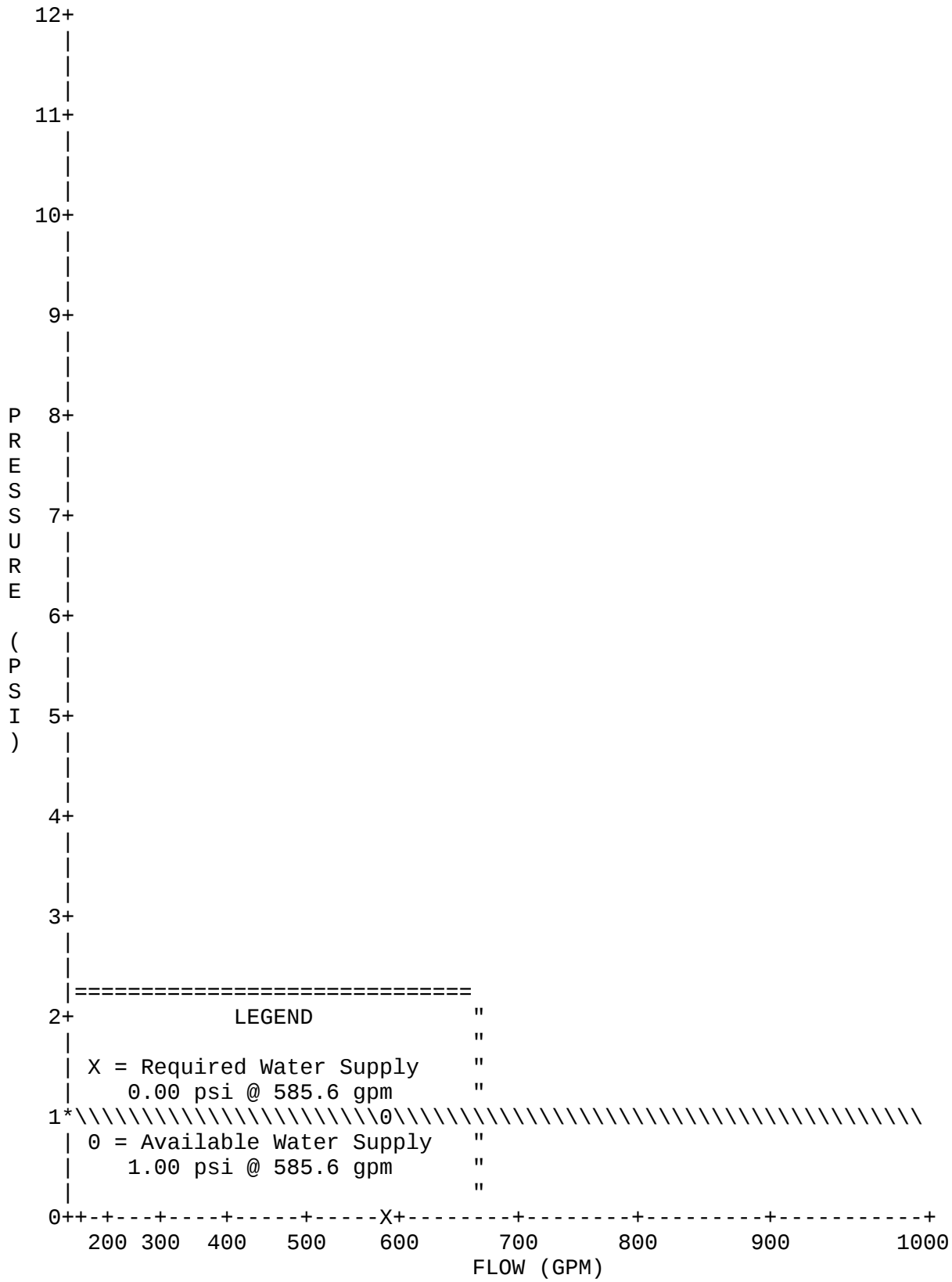
SPRINKLER SYSTEM DIAGRAM WITH FLOWPLOT



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WATER SUPPLY CURVE



Project: Proposed Building Plan – M/s DLYFT INDIA LLP

Location: VPO Kahni, District Rohtak, Haryana

AUTOMATIC SPRINKLER SYSTEM

HYDRAULIC SUPPLY CALCULATIONS

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JOB TITLE: DKYFT India LLP

WATER SUPPLY DATA

SOURCE NODE TAG	STATIC PRESS. (PSI)	RESID. PRESS. (PSI)	FLOW @ (GPM)	AVAIL. PRESS. (PSI)	TOTAL @ DEMAND (GPM)	REQ'D PRESS. (PSI)
SRC	(N/A)	1.0	(N/A)	1.0	794.9	

AGGREGATE FLOW ANALYSIS:

TOTAL FLOW AT SOURCE	794.9 GPM
TOTAL HOSE STREAM ALLOWANCE AT SOURCE	250.0 GPM
OTHER HOSE STREAM ALLOWANCES	0.0 GPM
TOTAL DISCHARGE FROM ACTIVE SPRINKLERS	544.9 GPM

NODE ANALYSIS DATA

NODE TAG	ELEVATION (FT)	NODE TYPE	PRESSURE (PSI)	DISCHARGE (GPM)
S1	17.0	K= 5.60	32.7	32.0
S2	17.0	K= 5.60	36.3	33.7
S3	17.0	K= 5.60	49.9	39.6
4	19.0	- - - -	57.7	- - -
S4	17.0	K= 5.60	53.4	40.9
S5	17.0	K= 5.60	48.2	38.9
S6	17.0	K= 5.60	34.3	32.8
S7	17.0	K= 5.60	38.1	34.6
S8	17.0	K= 5.60	52.3	40.5
10	19.0	- - - -	60.5	- - -
S9	17.0	K= 5.60	55.9	41.9
S10	17.0	K= 5.60	50.6	39.8
S11	17.0	K= 5.60	54.9	41.5
S12	17.0	K= 5.60	60.7	43.6
15	19.0	- - - -	65.7	- - -
S13	17.0	K= 5.60	60.7	43.6
S14	17.0	K= 5.60	54.9	41.5
18	18.0	- - - -	61.4	- - -
19	18.0	- - - -	64.3	- - -
20	18.0	- - - -	68.9	- - -
21	18.0	- - - -	78.0	- - -
22	18.0	- - - -	81.1	- - -
23	18.0	- - - -	84.3	- - -
24	18.0	- - - -	87.5	- - -
25	18.0	- - - -	88.3	- - -
26	18.0	- - - -	89.1	- - -
27	18.0	- - - -	90.0	- - -
28	18.0	- - - -	90.8	- - -
29	18.0	- - - -	91.7	- - -
30	18.0	- - - -	92.5	- - -
31	18.0	- - - -	93.3	- - -
32	18.0	- - - -	94.2	- - -
33	18.0	- - - -	95.0	- - -
34	18.0	- - - -	95.9	- - -
35	18.0	- - - -	97.0	- - -
36	18.0	- - - -	100.6	- - -

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NODE ANALYSIS DATA

NODE TAG	ELEVATION (FT)	NODE TYPE	PRESSURE (PSI)	DISCHARGE (GPM)
37	9.0	- - - -	105.1	- - -
38	9.0	- - - -	108.3	- - -
39	9.0	- - - -	110.6	- - -
40	0.0	- - - -	114.8	- - -
41	0.0	- - - -	115.1	- - -
42	0.0	- - - -	115.5	- - -
43	-6.5	- - - -	118.5	- - -
44	-6.5	- - - -	119.0	- - -
PUMP-OUT	-6.5	- - - -	119.0	- - -
PUMP-IN	-6.5	- - - -	1.7	- - -
45	-6.5	- - - -	1.8	- - -
SRC	-4.5	SOURCE	1.0	544.9

DATE: 8/1/2025ELANCE PROJECTS\PRADEEP INDIA\DLYFT INDIA LLP HYDR CALC.SDF

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PIPE DATA

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.	
NODES		(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C)	(FT)	SUM.	
							FL/FT		(PSI)	
Pipe: 1										
S1		17.0	5.6	32.7	32.0	-32.0 11.9	1.049 120	PL FTG	11.53 ----	PF PE 3.6 0.0
S2		17.0	5.6	36.3	33.7		0.311	TL	11.53	PV
Pipe: 2										
S2		17.0	5.6	36.3	33.7	-65.8 24.4	1.049 120	PL FTG	11.53 ----	PF PE 13.6 0.0
S3		17.0	5.6	49.9	39.6		1.177	TL	11.53	PV
Pipe: 3										
S3		17.0	5.6	49.9	39.6	-105.3 22.6	1.380 120	PL FTG	5.76 T	PF PE 8.7 -0.9
4		19.0	0.0	57.7	0.0		0.740	TL	11.76	PV
Pipe: 4										
4		19.0	0.0	57.7	0.0	79.8 17.1	1.380 120	PL FTG	5.76 T	PF PE 5.2 0.9
S4		17.0	5.6	53.4	40.9		0.443	TL	11.76	PV
Pipe: 5										
S4		17.0	5.6	53.4	40.9	38.9 14.4	1.049 120	PL FTG	11.53 ----	PF PE 5.1 0.0
S5		17.0	5.6	48.2	38.9		0.445	TL	11.53	PV
Pipe: 6										
S6		17.0	5.6	34.3	32.8	-32.8 12.2	1.049 120	PL FTG	11.53 ----	PF PE 3.7 0.0
S7		17.0	5.6	38.1	34.6		0.325	TL	11.53	PV
Pipe: 7										
S7		17.0	5.6	38.1	34.6	-67.4 25.0	1.049 120	PL FTG	11.53 ----	PF PE 14.2 0.0
S8		17.0	5.6	52.3	40.5		1.231	TL	11.53	PV
Pipe: 8										
S8		17.0	5.6	52.3	40.5	-107.9 23.1	1.380 120	PL FTG	5.76 T	PF PE 9.1 -0.9
10		19.0	0.0	60.5	0.0		0.773	TL	11.76	PV
Pipe: 9										
10		19.0	0.0	60.5	0.0	81.7 17.5	1.380 120	PL FTG	5.76 T	PF PE 5.4 0.9
S9		17.0	5.6	55.9	41.9		0.462	TL	11.76	PV
Pipe: 10										
S9		17.0	5.6	55.9	41.9	39.8 14.8	1.049 120	PL FTG	11.53 ----	PF PE 5.4 0.0
S10		17.0	5.6	50.6	39.8		0.465	TL	11.53	PV
Pipe: 11										
S11		17.0	5.6	54.9	41.5	-41.5 15.4	1.049 120	PL FTG	11.53 ----	PF PE 5.8 0.0
S12		17.0	5.6	60.7	43.6		0.502	TL	11.53	PV
Pipe: 12										
S12		17.0	5.6	60.7	43.6	-85.1 18.3	1.380 120	PL FTG	5.76 T	PF PE 5.9 -0.9
15		19.0	0.0	65.7	0.0		0.499	TL	11.76	PV
Pipe: 13										
15		19.0	0.0	65.7	0.0	85.1 18.3	1.380 120	PL FTG	5.76 T	PF PE 5.9 0.9
S13		17.0	5.6	60.7	43.6		0.499	TL	11.76	PV

DATE: 8/1/2025 ELANCE PROJECTS\PRADEEP INDIA\DLFT INDIA LLP HYDR CALC.SDF

JOB TITLE: DKYFT India LLP

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.	
	NODES	(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C)	(FT)	SUM.	
							FL/FT		(PSI)	
Pipe: 14										
S13		17.0	5.6	60.7	43.6	41.5	1.049	PL	11.53	PF 5.8
S14		17.0	5.6	54.9	41.5	15.4	120	FTG	----	PE 0.0
							0.502	TL	11.53	PV
Pipe: 15										
4		19.0	0.0	57.7	0.0	-185.1	2.067	PL	1.00	PF 3.2
18		18.0	0.0	61.4	0.0	17.7	120	FTG	T	PE 0.4
							0.294	TL	11.00	PV
Pipe: 16										
18		18.0	0.0	61.4	0.0	-185.1	2.067	PL	10.00	PF 2.9
19		18.0	0.0	64.3	0.0	17.7	120	FTG	----	PE 0.0
							0.294	TL	10.00	PV
Pipe: 17										
10		19.0	0.0	60.5	0.0	-189.6	2.067	PL	1.00	PF 3.4
19		18.0	0.0	64.3	0.0	18.1	120	FTG	T	PE 0.4
							0.307	TL	11.00	PV
Pipe: 18										
19		18.0	0.0	64.3	0.0	-374.7	2.469	PL	10.00	PF 4.6
20		18.0	0.0	68.9	0.0	25.1	120	FTG	----	PE 0.0
							0.455	TL	10.00	PV
Pipe: 19										
15		19.0	0.0	65.7	0.0	-170.2	2.067	PL	1.00	PF 2.8
20		18.0	0.0	68.9	0.0	16.3	120	FTG	T	PE 0.4
							0.251	TL	11.00	PV
Pipe: 20										
20		18.0	0.0	68.9	0.0	-544.9	2.469	PL	10.00	PF 9.1
21		18.0	0.0	78.0	0.0	36.5	120	FTG	----	PE 0.0
							0.911	TL	10.00	PV
Pipe: 21										
21		18.0	0.0	78.0	0.0	-544.9	3.068	PL	10.00	PF 3.2
22		18.0	0.0	81.1	0.0	23.6	120	FTG	----	PE 0.0
							0.316	TL	10.00	PV
Pipe: 22										
22		18.0	0.0	81.1	0.0	-544.9	3.068	PL	10.00	PF 3.2
23		18.0	0.0	84.3	0.0	23.6	120	FTG	----	PE 0.0
							0.316	TL	10.00	PV
Pipe: 23										
23		18.0	0.0	84.3	0.0	-544.9	3.068	PL	10.00	PF 3.2
24		18.0	0.0	87.5	0.0	23.6	120	FTG	----	PE 0.0
							0.316	TL	10.00	PV
Pipe: 24										
24		18.0	0.0	87.5	0.0	-544.9	4.026	PL	10.00	PF 0.8
25		18.0	0.0	88.3	0.0	13.7	120	FTG	----	PE 0.0
							0.084	TL	10.00	PV
Pipe: 25										
25		18.0	0.0	88.3	0.0	-544.9	4.026	PL	10.00	PF 0.8
26		18.0	0.0	89.1	0.0	13.7	120	FTG	----	PE 0.0
							0.084	TL	10.00	PV
Pipe: 26										
26		18.0	0.0	89.1	0.0	-544.9	4.026	PL	10.00	PF 0.8
27		18.0	0.0	90.0	0.0	13.7	120	FTG	----	PE 0.0
							0.084	TL	10.00	PV

DATE: 8/1/2025 ELANCE PROJECTS\PRADEEP INDIA\DLFT INDIA LLP HYDR CALC.SDF

JOB TITLE: DKYFT India LLP

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.	
NODES		(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C) FL/FT	(FT)	SUM. (PSI)	
Pipe: 27										
27		18.0	0.0	90.0	0.0	-544.9 13.7	4.026 120	PL FTG	10.00 ----	PF PE 0.8 0.0
28		18.0	0.0	90.8	0.0		0.084	TL	10.00	PV
Pipe: 28										
28		18.0	0.0	90.8	0.0	-544.9 13.7	4.026 120	PL FTG	10.00 ----	PF PE 0.8 0.0
29		18.0	0.0	91.7	0.0		0.084	TL	10.00	PV
Pipe: 29										
29		18.0	0.0	91.7	0.0	-544.9 13.7	4.026 120	PL FTG	10.00 ----	PF PE 0.8 0.0
30		18.0	0.0	92.5	0.0		0.084	TL	10.00	PV
Pipe: 30										
30		18.0	0.0	92.5	0.0	-544.9 13.7	4.026 120	PL FTG	10.00 ----	PF PE 0.8 0.0
31		18.0	0.0	93.3	0.0		0.084	TL	10.00	PV
Pipe: 31										
31		18.0	0.0	93.3	0.0	-544.9 13.7	4.026 120	PL FTG	10.00 ----	PF PE 0.8 0.0
32		18.0	0.0	94.2	0.0		0.084	TL	10.00	PV
Pipe: 32										
32		18.0	0.0	94.2	0.0	-544.9 13.7	4.026 120	PL FTG	10.00 ----	PF PE 0.8 0.0
33		18.0	0.0	95.0	0.0		0.084	TL	10.00	PV
Pipe: 33										
33		18.0	0.0	95.0	0.0	-544.9 13.7	4.026 120	PL FTG	10.00 ----	PF PE 0.8 0.0
34		18.0	0.0	95.9	0.0		0.084	TL	10.00	PV
Pipe: 34										
34		18.0	0.0	95.9	0.0	-544.9 13.7	4.026 120	PL FTG	3.23 E	PF PE 1.1 0.0
35		18.0	0.0	97.0	0.0		0.084	TL	13.23	PV
Pipe: 35										
35		18.0	0.0	97.0	0.0	-544.9 13.7	4.026 120	PL FTG	33.13 E	PF PE 3.6 0.0
36		18.0	0.0	100.6	0.0		0.084	TL	43.13	PV
Pipe: 36										
36		18.0	0.0	100.6	0.0	-544.9 6.1	6.065 120	PL FTG	9.00 EA	PF PE 0.6 3.9
37		9.0	0.0	105.1	0.0		0.011	TL	51.00	PV
Pipe: 37										
37		9.0	0.0	105.1	0.0	-544.9 6.1	6.065 120	PL FTG	242.00 3E	PF PE 3.2 0.0
38		9.0	0.0	108.3	0.0		0.011	TL	284.00	PV
Pipe: 38										
38		9.0	0.0	108.3	0.0	-544.9 6.1	6.065 120	PL FTG	185.00 E	PF PE 2.3 0.0
39		9.0	0.0	110.6	0.0		0.011	TL	199.00	PV
Pipe: 39										
39		9.0	0.0	110.6	0.0	-544.9 6.1	6.065 120	PL FTG	9.00 E	PF PE 0.3 3.9
40		0.0	0.0	114.8	0.0		0.011	TL	23.00	PV

DATE: 8/1/2025 ELANCE PROJECTS\PRADEEP INDIA\DLFT INDIA LLP HYDR CALC.SDF

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PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.
NODES	(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C)	FL/FT	(FT)	SUM.
									(PSI)
Pipe: 40					-544.9	6.065	PL	11.00	PF 0.3
40	0.0	0.0	114.8	0.0	6.1	120	FTG	E	PE 0.0
41	0.0	0.0	115.1	0.0		0.011	TL	25.00	PV
Pipe: 41					-544.9	6.065	PL	3.00	PF 0.4
41	0.0	0.0	115.1	0.0	6.1	120	FTG	TG	PE 0.0
42	0.0	0.0	115.5	0.0		0.011	TL	36.00	PV
Pipe: 42					-544.9	6.065	PL	6.50	PF 0.2
42	0.0	0.0	115.5	0.0	6.1	120	FTG	E	PE 2.8
43	-6.5	0.0	118.5	0.0		0.011	TL	20.50	PV
Pipe: 43					544.9	6.065	PL	4.00	PF 0.4
44	-6.5	0.0	119.0	0.0	6.1	120	FTG	CG	PE 0.0
43	-6.5	0.0	118.5	0.0		0.011	TL	39.00	PV
Pipe: 44					-544.9	6.065	PL	1.00	PF 0.0
44	-6.5	0.0	119.0	0.0	6.1	120	FTG	---	PE 0.0
PUMP-OUT	-6.5	0.0	119.0	0.0		0.011	TL	1.00	PV
Pipe: 45				FIRE PUMP	Rating:	500.0	gpm @ 124.0	psi	
PUMP-IN	-6.5	0.0	1.7	0.0	Avail.:	544.9	gpm @ 117.3	psi	
PUMP-OUT	-6.5	0.0	119.0	0.0	Req'd.:	544.9	gpm @ 117.3	psi	
Pipe: 46					-544.9	6.065	PL	5.00	PF 0.1
PUMP-IN	-6.5	0.0	1.7	0.0	6.1	120	FTG	G	PE 0.0
45	-6.5	0.0	1.8	0.0		0.011	TL	8.00	PV
Pipe: 47					-544.9	6.065	PL	4.00	PF 0.1
45	-6.5	0.0	1.8	0.0	6.1	120	FTG	G	PE -0.9
SRC	-4.5	SRCE	1.0	(N/A)		0.011	TL	7.00	PV

NOTES (HASS):

- Calculations were performed by the HASS computer program in accordance with NFPA (2020) under license no. 66309840 granted by HRS Systems, Inc.
208 Southside Square
Petersburg, TN 37144
(931) 659-9760
- The system has been calculated to provide an average imbalance at each node of 0.004 gpm and a maximum imbalance at any node of 0.095 gpm.
- Total pressure at each node is used in balancing the system. Maximum water velocity is 36.5 ft/sec at pipe 20.
- The Minimum pump suction pressure under maximum calculated demand is 1.69 (psi)
- Items listed in bold print on the cover sheet

DATE: 8/1/2025ELANCE PROJECTS\PRADEEP INDIA\DLYFT INDIA LLP HYDR CALC.SDF

JOB TITLE: DKYFT India LLP

are automatically transferred from the calculation report.

(6) Available pressure at source node SRC under full flow conditions is
1.00 psi with a flow of 794.93 gpm.

(7) PIPE FITTINGS TABLE

HASS Pipe Table Name: standard

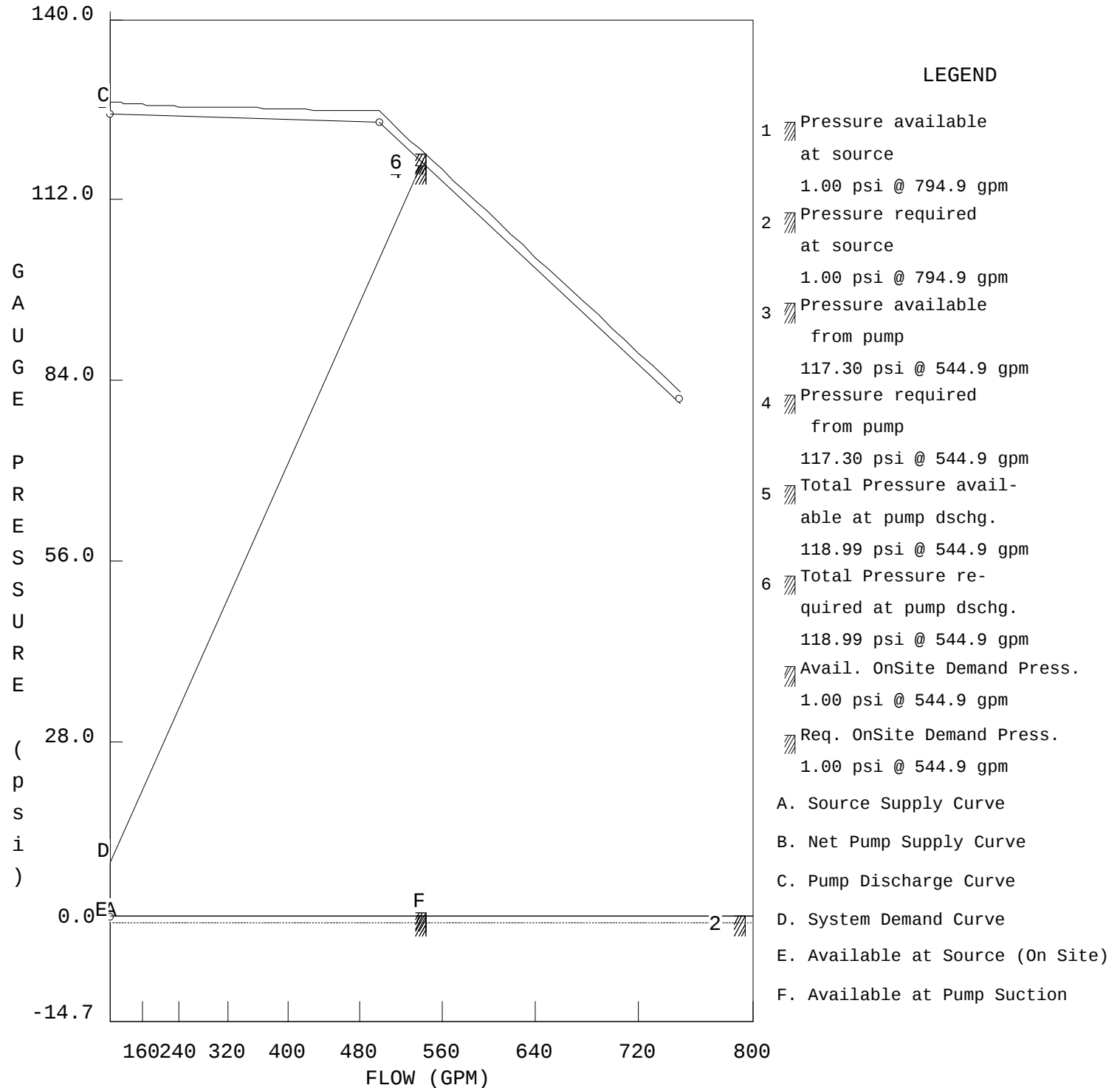
PAGE: A MATERIAL: S40 HWC: 120

Diameter (in)	Equivalent Fitting Lengths in Feet								
	E Ell	T Tee	L LngEll	C ChkVlv	B BfyVlv	G GatVlv	A AlmChk	D DPVlv	N NTee

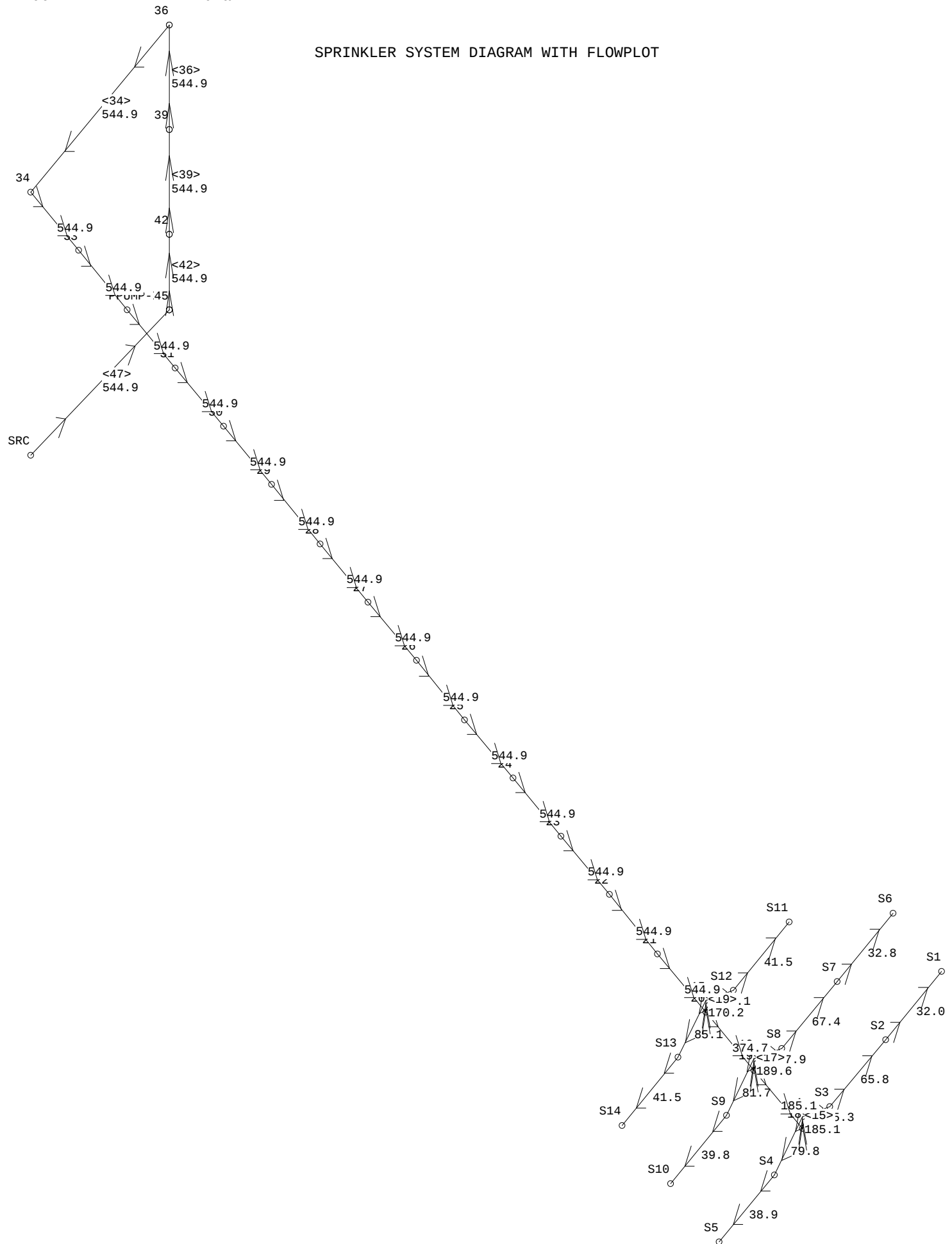
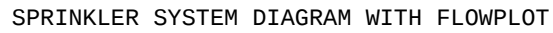
	F F45Ell								
1.049	2.00	5.00	2.00	5.00	6.00	1.00	10.00	2.00	5.00
	1.00								
1.380	3.00	6.00	2.00	7.00	6.00	1.00	10.00	10.00	6.00
	1.50								
2.067	5.00	10.00	3.00	11.00	6.00	1.00	10.00	10.00	10.00
	2.50								
2.469	6.00	12.00	4.00	14.00	7.00	1.00	10.00	10.00	12.00
	3.00								
3.068	7.00	15.00	5.00	16.00	10.00	1.00	13.00	13.00	15.00
	3.50								
4.026	10.00	20.00	6.00	22.00	12.00	2.00	20.00	20.00	20.00
	5.00								
6.065	14.00	30.00	9.00	32.00	10.00	3.00	28.00	28.00	30.00
	7.00								

WATER SUPPLY ANALYSIS

Fixed Source Pressure: 1.00 psi



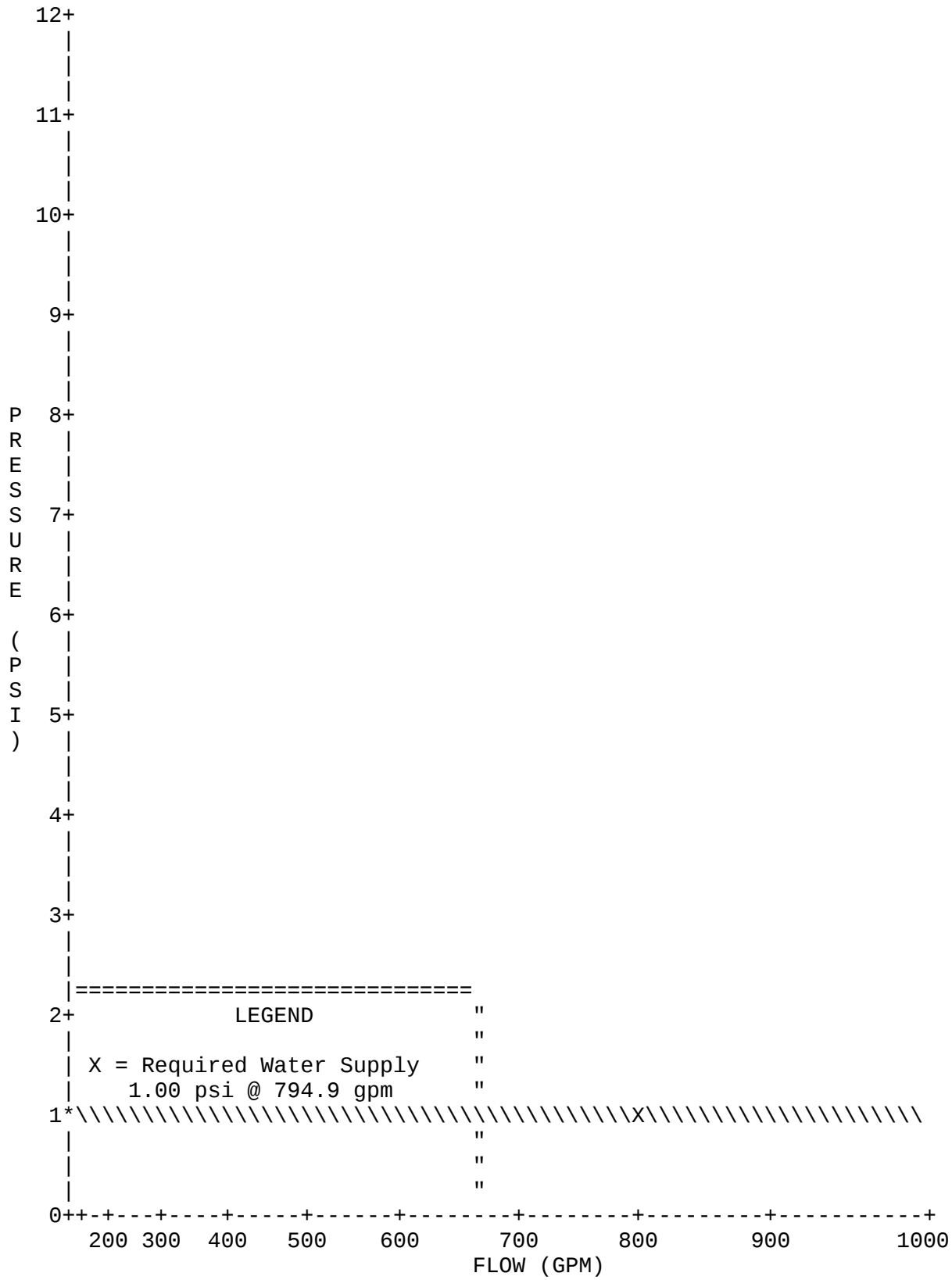
JOB TITLE: DKYFT India LLP



DATE: 8/1/2025 ELANCE PROJECTS\PRADEEP INDIA\DLFT INDIA LLP HYDR CALC.SDF

JOB TITLE: DKYFT India LLP

WATER SUPPLY CURVE



Project: Proposed Building Plan – M/s DLYFT INDIA LLP

Location: VPO Kahni, District Rohtak, Haryana

HYDRANT (LANDING VALVE) SYSTEM

HYDRAULIC DEMAND CALCULATIONS

DATE: 8/1/2025 PROJECTS\PRADEEP INDIA\DLFT INDIA LLP HYDRANT LINE CALC.SDF
JOB TITLE:

WATER SUPPLY DATA

SOURCE NODE TAG	STATIC PRESS. (PSI)	RESID. PRESS. (PSI)	FLOW @ (GPM)	AVAIL. PRESS. (PSI)	TOTAL @ DEMAND (GPM)	REQ'D PRESS. (PSI)
SRC	(N/A)	1.0	(N/A)	1.0	500.0	0.0

AGGREGATE FLOW ANALYSIS:

TOTAL FLOW AT SOURCE	500.0 GPM
TOTAL HOSE STREAM ALLOWANCE AT SOURCE	0.0 GPM
OTHER HOSE STREAM ALLOWANCES	500.0 GPM
TOTAL DISCHARGE FROM ACTIVE SPRINKLERS	0.0 GPM

NODE ANALYSIS DATA

NODE TAG	ELEVATION (FT)	NODE TYPE	PRESSURE (PSI)	DISCHARGE (GPM)
LV-1	14.0	HOSE STREAM	100.1	250.0
LV-2	14.0	HOSE STREAM	100.0	250.0
1	14.0	- - - -	102.9	- - -
2	9.0	- - - -	105.3	- - -
3	14.0	- - - -	102.8	- - -
4	9.0	- - - -	105.3	- - -
5	9.0	- - - -	107.0	- - -
6	9.0	- - - -	107.1	- - -
7	9.0	- - - -	107.6	- - -
8	9.0	- - - -	108.4	- - -
9	9.0	- - - -	108.2	- - -
10	9.0	- - - -	108.1	- - -
11	9.0	- - - -	107.6	- - -
12	9.0	- - - -	107.1	- - -
13	9.0	- - - -	108.2	- - -
14	9.0	- - - -	109.1	- - -
15	0.0	- - - -	115.0	- - -
16	0.0	- - - -	115.2	- - -
17	0.0	- - - -	115.6	- - -
18	0.0	- - - -	115.8	- - -
19	-6.5	- - - -	118.8	- - -
20	-6.5	- - - -	119.2	- - -
PUMP-OUT	-6.5	- - - -	119.2	- - -
PUMP-IN	-6.5	- - - -	0.7	- - -
21	-6.5	- - - -	0.8	- - -
SRC	-4.5	SOURCE	0.0	500.0

DATE: 8/1/2025 PROJECTS\PRADEEP INDIA\DLFT INDIA LLP HYDRANT LINE CALC.SDF

JOB TITLE:

PIPE DATA

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.	
NODES		(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C)	(FT)	SUM.	
							FL/FT		(PSI)	
Pipe: 1										
LV-1		14.0	H.S.	100.1	250.0	-250.0	2.469	1.00	PF	2.8
1		14.0	0.0	102.9	0.0	16.8	120	FTG	PE	0.0
		14.0	0.0	102.9	0.0		0.215	TL	PV	
Pipe: 2										
1		14.0	0.0	102.9	0.0	-250.0	4.026	5.00	PF	0.3
2		9.0	0.0	105.3	0.0	6.3	120	FTG	PE	2.2
		9.0	0.0	105.3	0.0		0.020	TL	PV	
Pipe: 3										
LV-2		14.0	H.S.	100.0	250.0	-250.0	2.469	1.00	PF	2.8
3		14.0	0.0	102.8	0.0	16.8	120	FTG	PE	0.0
		14.0	0.0	102.8	0.0		0.215	TL	PV	
Pipe: 4										
3		14.0	0.0	102.8	0.0	-250.0	4.026	5.00	PF	0.3
4		9.0	0.0	105.3	0.0	6.3	120	FTG	PE	2.2
		9.0	0.0	105.3	0.0		0.020	TL	PV	
Pipe: 5										
4		9.0	0.0	105.3	0.0	-250.0	4.026	67.50	PF	1.7
5		9.0	0.0	107.0	0.0	6.3	120	FTG	PE	0.0
		9.0	0.0	107.0	0.0		0.020	TL	PV	
Pipe: 6										
2		9.0	0.0	105.3	0.0	-250.0	4.026	67.50	PF	1.7
6		9.0	0.0	107.1	0.0	6.3	120	FTG	PE	0.0
		9.0	0.0	107.1	0.0		0.020	TL	PV	
Pipe: 7										
5		9.0	0.0	107.0	0.0	-84.2	6.065	158.00	PF	0.1
6		9.0	0.0	107.1	0.0	0.9	120	FTG	PE	0.0
		9.0	0.0	107.1	0.0		0.000	TL	PV	
Pipe: 8										
6		9.0	0.0	107.1	0.0	-334.2	6.065	103.00	PF	0.5
7		9.0	0.0	107.6	0.0	3.7	120	FTG	PE	0.0
		9.0	0.0	107.6	0.0		0.005	TL	PV	
Pipe: 9										
7		9.0	0.0	107.6	0.0	-334.2	6.065	151.50	PF	0.8
8		9.0	0.0	108.4	0.0	3.7	120	FTG	PE	0.0
		9.0	0.0	108.4	0.0		0.005	TL	PV	
Pipe: 10										
8		9.0	0.0	108.4	0.0	165.8	6.065	185.00	PF	0.3
9		9.0	0.0	108.2	0.0	1.8	120	FTG	PE	0.0
		9.0	0.0	108.2	0.0		0.001	TL	PV	
Pipe: 11										
9		9.0	0.0	108.2	0.0	165.8	6.065	39.00	PF	0.1
10		9.0	0.0	108.1	0.0	1.8	120	FTG	PE	0.0
		9.0	0.0	108.1	0.0		0.001	TL	PV	
Pipe: 12										
10		9.0	0.0	108.1	0.0	165.8	6.065	363.00	PF	0.5
11		9.0	0.0	107.6	0.0	1.8	120	FTG	PE	0.0
		9.0	0.0	107.6	0.0		0.001	TL	PV	
Pipe: 13										
11		9.0	0.0	107.6	0.0	165.8	6.065	375.50	PF	0.5
12		9.0	0.0	107.1	0.0	1.8	120	FTG	PE	0.0
		9.0	0.0	107.1	0.0		0.001	TL	PV	

DATE: 8/1/2025 PROJECTS\PRADEEP INDIA\DLFT INDIA LLP HYDRANT LINE CALC.SDF
JOB TITLE:

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.	
	NODES	(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C) FL/FT	(FT)	SUM. (PSI)	
Pipe: 14										
12		9.0	0.0	107.1	0.0	165.8	6.065	PL 102.00	PF	0.1
5		9.0	0.0	107.0	0.0	1.8	120	FTG ---	PE	0.0
		9.0	0.0	107.0	0.0		0.001	TL 102.00	PV	
Pipe: 15										
9		9.0	0.0	108.2	0.0	0.0	6.065	PL 9.00	PF	0.0
13		9.0	0.0	108.2	0.0	0.0	120	FTG E	PE	0.0
		9.0	0.0	108.2	0.0		0.000	TL 23.00	PV	
Pipe: 16										
8		9.0	0.0	108.4	0.0	-500.0	6.065	PL 55.00	PF	0.7
14		9.0	0.0	109.1	0.0	5.6	120	FTG E	PE	0.0
		9.0	0.0	109.1	0.0		0.010	TL 69.00	PV	
Pipe: 17										
14		9.0	0.0	109.1	0.0	-500.0	6.065	PL 185.00	PF	1.9
15		0.0	0.0	115.0	0.0	5.6	120	FTG E	PE	3.9
		0.0	0.0	115.0	0.0		0.010	TL 199.00	PV	
Pipe: 18										
15		0.0	0.0	115.0	0.0	-500.0	6.065	PL 9.00	PF	0.2
16		0.0	0.0	115.2	0.0	5.6	120	FTG E	PE	0.0
		0.0	0.0	115.2	0.0		0.010	TL 23.00	PV	
Pipe: 19										
16		0.0	0.0	115.2	0.0	-500.0	6.065	PL 11.00	PF	0.4
17		0.0	0.0	115.6	0.0	5.6	120	FTG T	PE	0.0
		0.0	0.0	115.6	0.0		0.010	TL 41.00	PV	
Pipe: 20										
17		0.0	0.0	115.6	0.0	-500.0	6.065	PL 3.00	PF	0.2
18		0.0	0.0	115.8	0.0	5.6	120	FTG EG	PE	0.0
		0.0	0.0	115.8	0.0		0.010	TL 20.00	PV	
Pipe: 21										
18		0.0	0.0	115.8	0.0	-500.0	6.065	PL 6.50	PF	0.2
19		0.0	0.0	115.8	0.0	5.6	120	FTG E	PE	2.8
		-6.5	0.0	118.8	0.0		0.010	TL 20.50	PV	
Pipe: 22										
20		-6.5	0.0	119.2	0.0	500.0	6.065	PL 4.00	PF	0.4
19		-6.5	0.0	118.8	0.0	5.6	120	FTG CG	PE	0.0
		-6.5	0.0	118.8	0.0		0.010	TL 39.00	PV	
Pipe: 23										
20		-6.5	0.0	119.2	0.0	-500.0	6.065	PL 2.00	PF	0.0
PUMP-OUT		-6.5	0.0	119.2	0.0	5.6	120	FTG ---	PE	0.0
		-6.5	0.0	119.2	0.0		0.010	TL 2.00	PV	
Pipe: 24										
PUMP-IN		-6.5	0.0	0.7	0.0		FIRE PUMP	Rating: 500.0 gpm @ 124.0 psi		
PUMP-OUT		-6.5	0.0	119.2	0.0			Avail.: 500.0 gpm @ 124.0 psi		
		-6.5	0.0	119.2	0.0			Req'd.: 500.0 gpm @ 118.5 psi		
Pipe: 25										
PUMP-IN		-6.5	0.0	0.7	0.0	-500.0	6.065	PL 5.00	PF	0.1
21		-6.5	0.0	0.8	0.0	5.6	120	FTG G	PE	0.0
		-6.5	0.0	0.8	0.0		0.010	TL 8.00	PV	
Pipe: 26										
21		-6.5	0.0	0.8	0.0	-500.0	6.065	PL 6.00	PF	0.1
SRC		-4.5	SRCE	0.0	(N/A)	5.6	120	FTG G	PE	-0.9
		-4.5	SRCE	0.0	(N/A)		0.010	TL 9.00	PV	

DATE: 8/1/2025 PROJECTS\PRADEEP INDIA\DLFT INDIA LLP HYDRANT LINE CALC.SDF
JOB TITLE:

NOTES (HASS):

- (1) Calculations were performed by the HASS computer program in accordance with NFPA (2020) under license no. 66309840 granted by
HRS Systems, Inc.
208 Southside Square
Petersburg, TN 37144
(931) 659-9760
- (2) The system has been calculated to provide an average imbalance at each node of 0.001 gpm and a maximum imbalance at any node of 0.003 gpm.
- (3) Total pressure at each node is used in balancing the system. Maximum water velocity is 16.8 ft/sec at pipe 1.
- (4) The Minimum pump suction pressure under maximum calculated demand is 0.70 (psi)
- (5) Items listed in bold print on the cover sheet
are automatically transferred from the calculation report.
- (6) Available pressure at source node SRC under full flow conditions is 1.00 psi with a flow of 500.00 gpm.

(7) PIPE FITTINGS TABLE

HASS Pipe Table Name: standard

PAGE: A	MATERIAL: S40		HWC: 120							
Diameter	Equivalent Fitting Lengths in Feet									
(in)	E	T	L	C	B	G	A	D	N	
	Ell	Tee	LngEll	ChkVlv	BfyVlv	GatVlv	AlmChk	DPVlv	NTee	

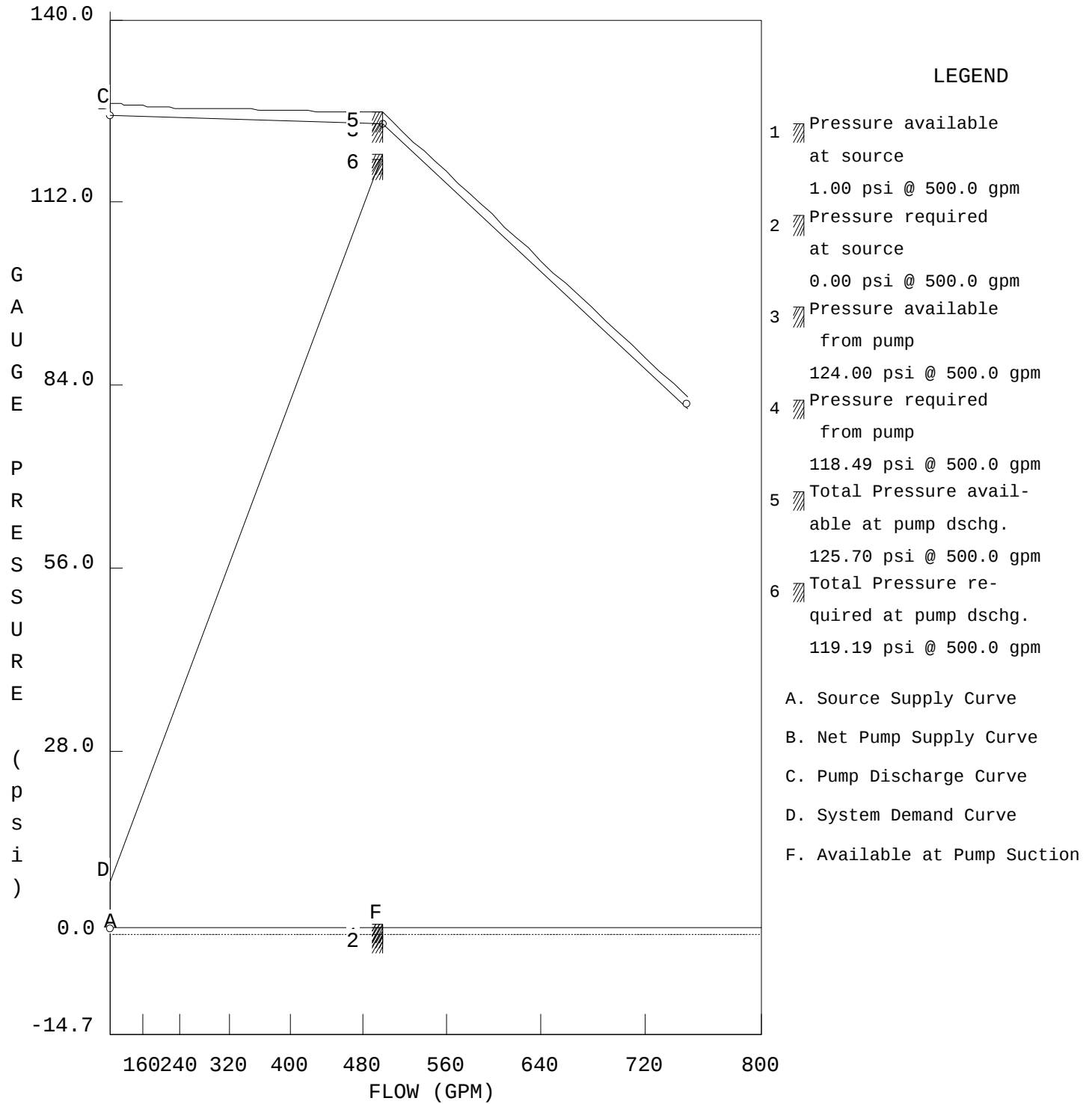
	F									
	F45Ell									
2.469	6.00	12.00	4.00	14.00	7.00	1.00	10.00	10.00	12.00	
	3.00									
4.026	10.00	20.00	6.00	22.00	12.00	2.00	20.00	20.00	20.00	
	5.00									
6.065	14.00	30.00	9.00	32.00	10.00	3.00	28.00	28.00	30.00	
	7.00									

DATE: 8/1/2025 PROJECTS\PRADEEP INDIA\DLYFT INDIA LLP HYDRANT LINE CALC.SDF

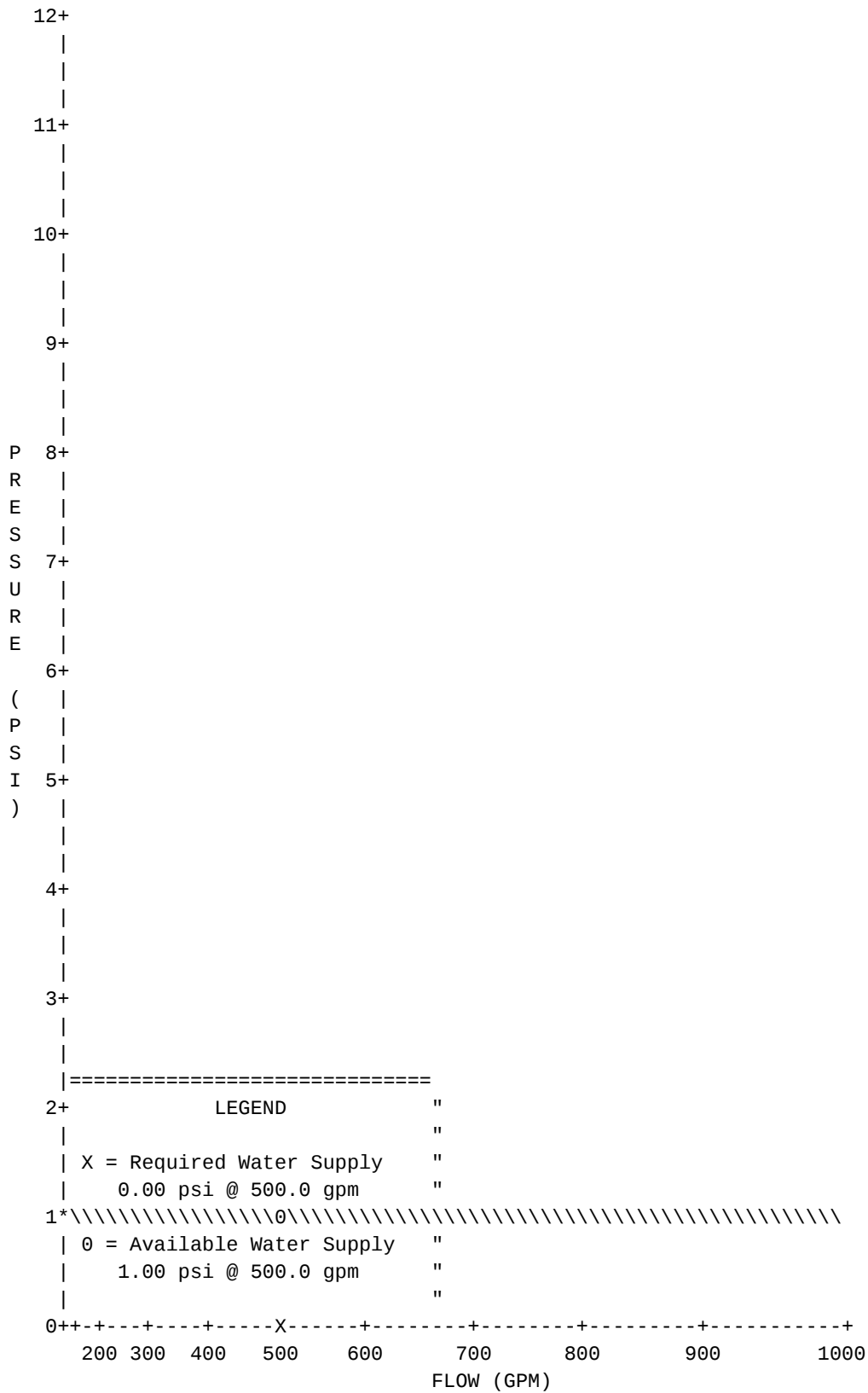
JOB TITLE:

WATER SUPPLY ANALYSIS

Fixed Source Pressure: 1.00 psi



JOB TITLE:



Project: Proposed Building Plan – M/s DLYFT INDIA LLP

Location: VPO Kahni, District Rohtak, Haryana

HYDRANT (LANDING VALVE) SYSTEM

HYDRAULIC SUPPLY CALCULATIONS

DATE: 8/1/2025 PROJECTS\PRADEEP INDIA\DLIFT INDIA LLP HYDRANT LINE CALC.SDF

JOB TITLE:

WATER SUPPLY DATA

SOURCE NODE TAG	STATIC PRESS. (PSI)	RESID. PRESS. (PSI)	FLOW @ (GPM)	AVAIL. PRESS. (PSI)	TOTAL @ DEMAND (GPM)	REQ'D PRESS. (PSI)
SRC	(N/A)	1.0	(N/A)	1.0	500.0	

AGGREGATE FLOW ANALYSIS:

TOTAL FLOW AT SOURCE	500.0 GPM
TOTAL HOSE STREAM ALLOWANCE AT SOURCE	0.0 GPM
OTHER HOSE STREAM ALLOWANCES	500.0 GPM
TOTAL DISCHARGE FROM ACTIVE SPRINKLERS	0.0 GPM

NODE ANALYSIS DATA

NODE TAG	ELEVATION (FT)	NODE TYPE	PRESSURE (PSI)	DISCHARGE (GPM)
LV-1	14.0	HOSE STREAM	106.6	250.0
LV-2	14.0	HOSE STREAM	106.5	250.0
1	14.0	- - - -	109.4	- - -
2	9.0	- - - -	111.8	- - -
3	14.0	- - - -	109.3	- - -
4	9.0	- - - -	111.8	- - -
5	9.0	- - - -	113.5	- - -
6	9.0	- - - -	113.6	- - -
7	9.0	- - - -	114.1	- - -
8	9.0	- - - -	115.0	- - -
9	9.0	- - - -	114.7	- - -
10	9.0	- - - -	114.6	- - -
11	9.0	- - - -	114.1	- - -
12	9.0	- - - -	113.6	- - -
13	9.0	- - - -	114.7	- - -
14	9.0	- - - -	115.6	- - -
15	0.0	- - - -	121.5	- - -
16	0.0	- - - -	121.7	- - -
17	0.0	- - - -	122.1	- - -
18	0.0	- - - -	122.3	- - -
19	-6.5	- - - -	125.3	- - -
20	-6.5	- - - -	125.7	- - -
PUMP-OUT	-6.5	- - - -	125.7	- - -
PUMP-IN	-6.5	- - - -	1.7	- - -
21	-6.5	- - - -	1.8	- - -
SRC	-4.5	SOURCE	1.0	500.0

DATE: 8/1/2025 PROJECTS\PRADEEP INDIA\DLFT INDIA LLP HYDRANT LINE CALC.SDF

JOB TITLE:

PIPE DATA

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.	
NODES		(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C)	(FT)	SUM.	
							FL/FT		(PSI)	
Pipe: 1										
LV-1		14.0	H.S.	106.6	250.0	-250.0	2.469	1.00	PF	2.8
1		14.0	0.0	109.4	0.0	16.8	120	FTG	PE	0.0
		14.0	0.0	109.4	0.0		0.215	TL	PV	
Pipe: 2										
1		14.0	0.0	109.4	0.0	-250.0	4.026	5.00	PF	0.3
2		9.0	0.0	111.8	0.0	6.3	120	FTG	PE	2.2
		9.0	0.0	111.8	0.0		0.020	TL	PV	
Pipe: 3										
LV-2		14.0	H.S.	106.5	250.0	-250.0	2.469	1.00	PF	2.8
3		14.0	0.0	109.3	0.0	16.8	120	FTG	PE	0.0
		14.0	0.0	109.3	0.0		0.215	TL	PV	
Pipe: 4										
3		14.0	0.0	109.3	0.0	-250.0	4.026	5.00	PF	0.3
4		9.0	0.0	111.8	0.0	6.3	120	FTG	PE	2.2
		9.0	0.0	111.8	0.0		0.020	TL	PV	
Pipe: 5										
4		9.0	0.0	111.8	0.0	-250.0	4.026	67.50	PF	1.7
5		9.0	0.0	113.5	0.0	6.3	120	FTG	PE	0.0
		9.0	0.0	113.5	0.0		0.020	TL	PV	
Pipe: 6										
2		9.0	0.0	111.8	0.0	-250.0	4.026	67.50	PF	1.7
6		9.0	0.0	113.6	0.0	6.3	120	FTG	PE	0.0
		9.0	0.0	113.6	0.0		0.020	TL	PV	
Pipe: 7										
5		9.0	0.0	113.5	0.0	-84.2	6.065	158.00	PF	0.1
6		9.0	0.0	113.6	0.0	0.9	120	FTG	PE	0.0
		9.0	0.0	113.6	0.0		0.000	TL	PV	
Pipe: 8										
6		9.0	0.0	113.6	0.0	-334.2	6.065	103.00	PF	0.5
7		9.0	0.0	114.1	0.0	3.7	120	FTG	PE	0.0
		9.0	0.0	114.1	0.0		0.005	TL	PV	
Pipe: 9										
7		9.0	0.0	114.1	0.0	-334.2	6.065	151.50	PF	0.8
8		9.0	0.0	115.0	0.0	3.7	120	FTG	PE	0.0
		9.0	0.0	115.0	0.0		0.005	TL	PV	
Pipe: 10										
8		9.0	0.0	115.0	0.0	165.8	6.065	185.00	PF	0.3
9		9.0	0.0	114.7	0.0	1.8	120	FTG	PE	0.0
		9.0	0.0	114.7	0.0		0.001	TL	PV	
Pipe: 11										
9		9.0	0.0	114.7	0.0	165.8	6.065	39.00	PF	0.1
10		9.0	0.0	114.6	0.0	1.8	120	FTG	PE	0.0
		9.0	0.0	114.6	0.0		0.001	TL	PV	
Pipe: 12										
10		9.0	0.0	114.6	0.0	165.8	6.065	363.00	PF	0.5
11		9.0	0.0	114.1	0.0	1.8	120	FTG	PE	0.0
		9.0	0.0	114.1	0.0		0.001	TL	PV	
Pipe: 13										
11		9.0	0.0	114.1	0.0	165.8	6.065	375.50	PF	0.5
12		9.0	0.0	113.6	0.0	1.8	120	FTG	PE	0.0
		9.0	0.0	113.6	0.0		0.001	TL	PV	

DATE: 8/1/2025 PROJECTS\PRADEEP INDIA\DLFT INDIA LLP HYDRANT LINE CALC.SDF

JOB TITLE:

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.	
	NODES	(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C) FL/FT	(FT)	SUM. (PSI)	
Pipe: 14										
12		9.0	0.0	113.6	0.0	165.8	6.065 PL	102.00	PF	0.1
5		9.0	0.0	113.5	0.0	1.8	120 FTG	----	PE	0.0
		9.0	0.0		0.0		0.001 TL	102.00	PV	
Pipe: 15										
9		9.0	0.0	114.7	0.0	0.0	6.065 PL	9.00	PF	0.0
13		9.0	0.0	114.7	0.0	0.0	120 FTG	E	PE	0.0
		9.0	0.0		0.0		0.000 TL	23.00	PV	
Pipe: 16										
8		9.0	0.0	115.0	0.0	-500.0	6.065 PL	55.00	PF	0.7
14		9.0	0.0	115.6	0.0	5.6	120 FTG	E	PE	0.0
		9.0	0.0		0.0		0.010 TL	69.00	PV	
Pipe: 17										
14		9.0	0.0	115.6	0.0	-500.0	6.065 PL	185.00	PF	1.9
15		9.0	0.0	115.6	0.0	5.6	120 FTG	E	PE	3.9
		0.0	0.0	121.5	0.0		0.010 TL	199.00	PV	
Pipe: 18										
15		0.0	0.0	121.5	0.0	-500.0	6.065 PL	9.00	PF	0.2
16		0.0	0.0	121.7	0.0	5.6	120 FTG	E	PE	0.0
		0.0	0.0		0.0		0.010 TL	23.00	PV	
Pipe: 19										
16		0.0	0.0	121.7	0.0	-500.0	6.065 PL	11.00	PF	0.4
17		0.0	0.0	122.1	0.0	5.6	120 FTG	T	PE	0.0
		0.0	0.0		0.0		0.010 TL	41.00	PV	
Pipe: 20										
17		0.0	0.0	122.1	0.0	-500.0	6.065 PL	3.00	PF	0.2
18		0.0	0.0	122.3	0.0	5.6	120 FTG	EG	PE	0.0
		0.0	0.0		0.0		0.010 TL	20.00	PV	
Pipe: 21										
18		0.0	0.0	122.3	0.0	-500.0	6.065 PL	6.50	PF	0.2
19		0.0	0.0	122.3	0.0	5.6	120 FTG	E	PE	2.8
		-6.5	0.0	125.3	0.0		0.010 TL	20.50	PV	
Pipe: 22										
20		-6.5	0.0	125.7	0.0	500.0	6.065 PL	4.00	PF	0.4
19		-6.5	0.0	125.3	0.0	5.6	120 FTG	CG	PE	0.0
		-6.5	0.0		0.0		0.010 TL	39.00	PV	
Pipe: 23										
20		-6.5	0.0	125.7	0.0	-500.0	6.065 PL	2.00	PF	0.0
PUMP-OUT		-6.5	0.0	125.7	0.0	5.6	120 FTG	----	PE	0.0
		-6.5	0.0		0.0		0.010 TL	2.00	PV	
Pipe: 24										
PUMP-IN		-6.5	0.0	1.7	0.0		FIRE PUMP	Rating: 500.0 gpm @ 124.0 psi		
PUMP-OUT		-6.5	0.0	125.7	0.0			Avail.: 500.0 gpm @ 124.0 psi		
		-6.5	0.0		0.0			Req'd.: 500.0 gpm @ 124.0 psi		
Pipe: 25										
PUMP-IN		-6.5	0.0	1.7	0.0	-500.0	6.065 PL	5.00	PF	0.1
21		-6.5	0.0	1.8	0.0	5.6	120 FTG	G	PE	0.0
		-6.5	0.0		0.0		0.010 TL	8.00	PV	
Pipe: 26										
21		-6.5	0.0	1.8	0.0	-500.0	6.065 PL	6.00	PF	0.1
SRC		-4.5	SRCE	1.0	(N/A)	5.6	120 FTG	G	PE	-0.9
		-4.5					0.010 TL	9.00	PV	

DATE: 8/1/2025 PROJECTS\PRADEEP INDIA\DLFT INDIA LLP HYDRANT LINE CALC.SDF
JOB TITLE:

NOTES (HASS):

- (1) Calculations were performed by the HASS computer program in accordance with NFPA (2020) under license no. 66309840 granted by HRS Systems, Inc.
208 Southside Square
Petersburg, TN 37144
(931) 659-9760
- (2) The system has been calculated to provide an average imbalance at each node of 0.006 gpm and a maximum imbalance at any node of 0.070 gpm.
- (3) Total pressure at each node is used in balancing the system. Maximum water velocity is 16.8 ft/sec at pipe 1.
- (4) The Minimum pump suction pressure under maximum calculated demand is 1.70 (psi)
- (5) Items listed in bold print on the cover sheet

are automatically transferred from the calculation report.
- (6) Available pressure at source node SRC under full flow conditions is 1.00 psi with a flow of 500.00 gpm.

(7) PIPE FITTINGS TABLE

HASS Pipe Table Name: standard

PAGE: A MATERIAL: S40 HWC: 120

Diameter	Equivalent Fitting Lengths in Feet
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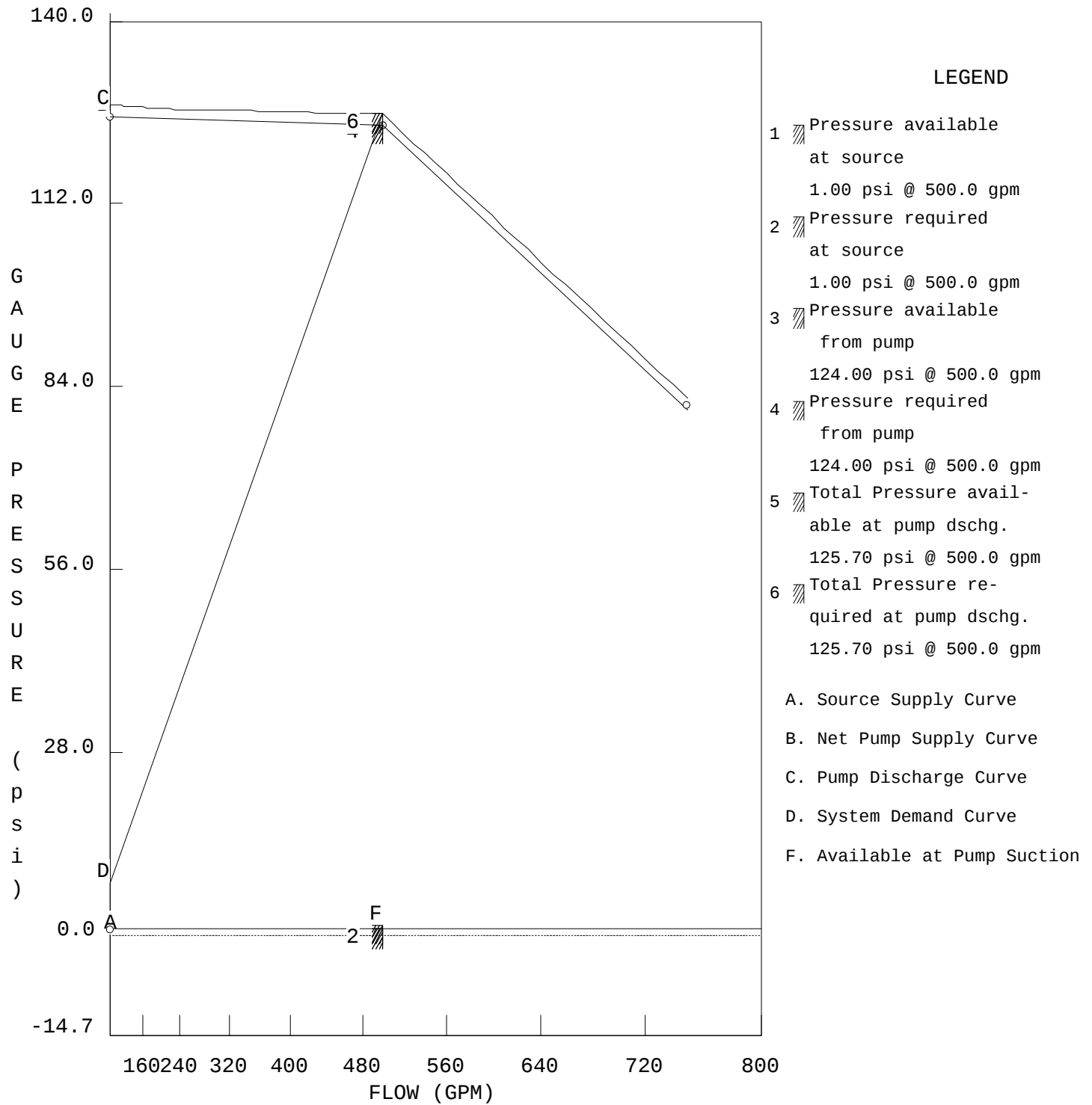
(in)	E E11	T Tee	L LngE11	C ChkV1v	B BfyV1v	G GatV1v	A AlmChk	D DPV1v	N NTee
	F F45E11								
2.469	6.00 3.00	12.00	4.00	14.00	7.00	1.00	10.00	10.00	12.00
4.026	10.00 5.00	20.00	6.00	22.00	12.00	2.00	20.00	20.00	20.00
6.065	14.00 7.00	30.00	9.00	32.00	10.00	3.00	28.00	28.00	30.00

DATE: 8/1/2025 PROJECTS\PRADEEP INDIA\DLYFT INDIA LLP HYDRANT LINE CALC.SDF

JOB TITLE:

WATER SUPPLY ANALYSIS

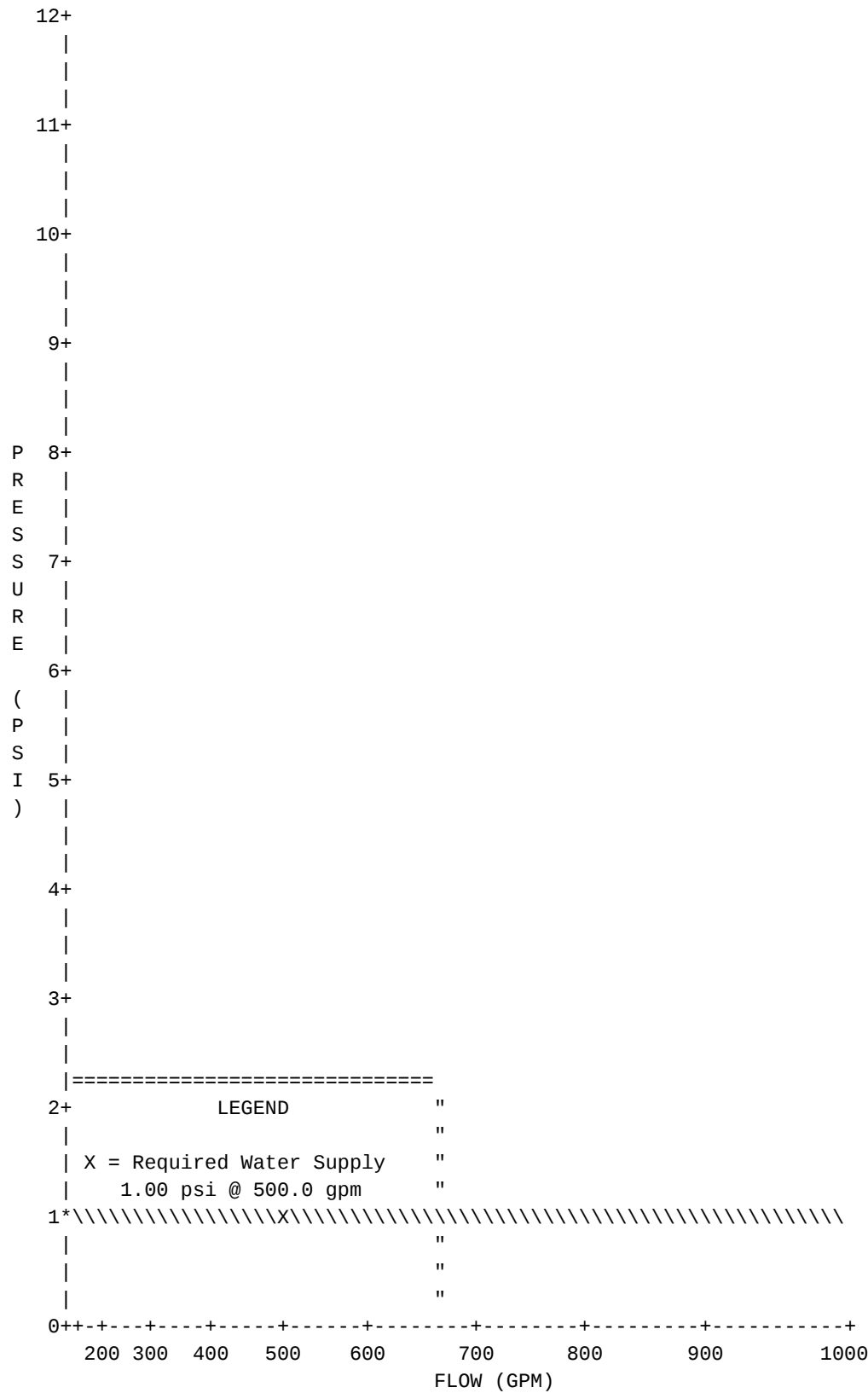
Fixed Source Pressure: 1.00 psi



DATE: 8/1/2025R0JECTS\PRADEEP INDIA\DLYFT INDIA LLP HYDRANT LINE CALC.SDF

JOB TITLE:

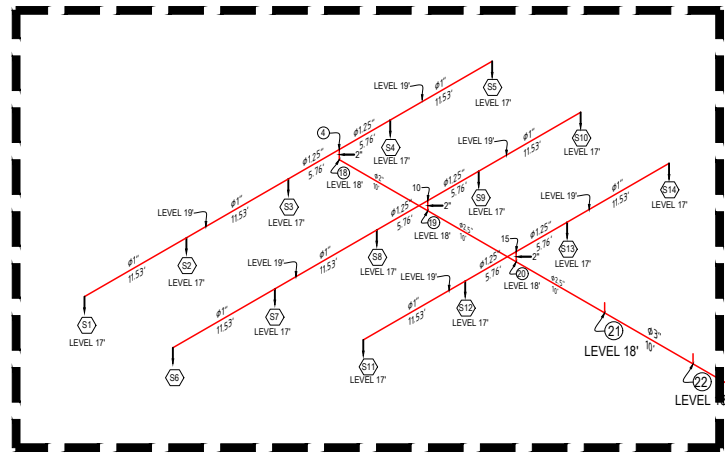
WATER SUPPLY CURVE



DLYFT INDIA LLP

AUTOMATIC SPRINKLER SYSTEM

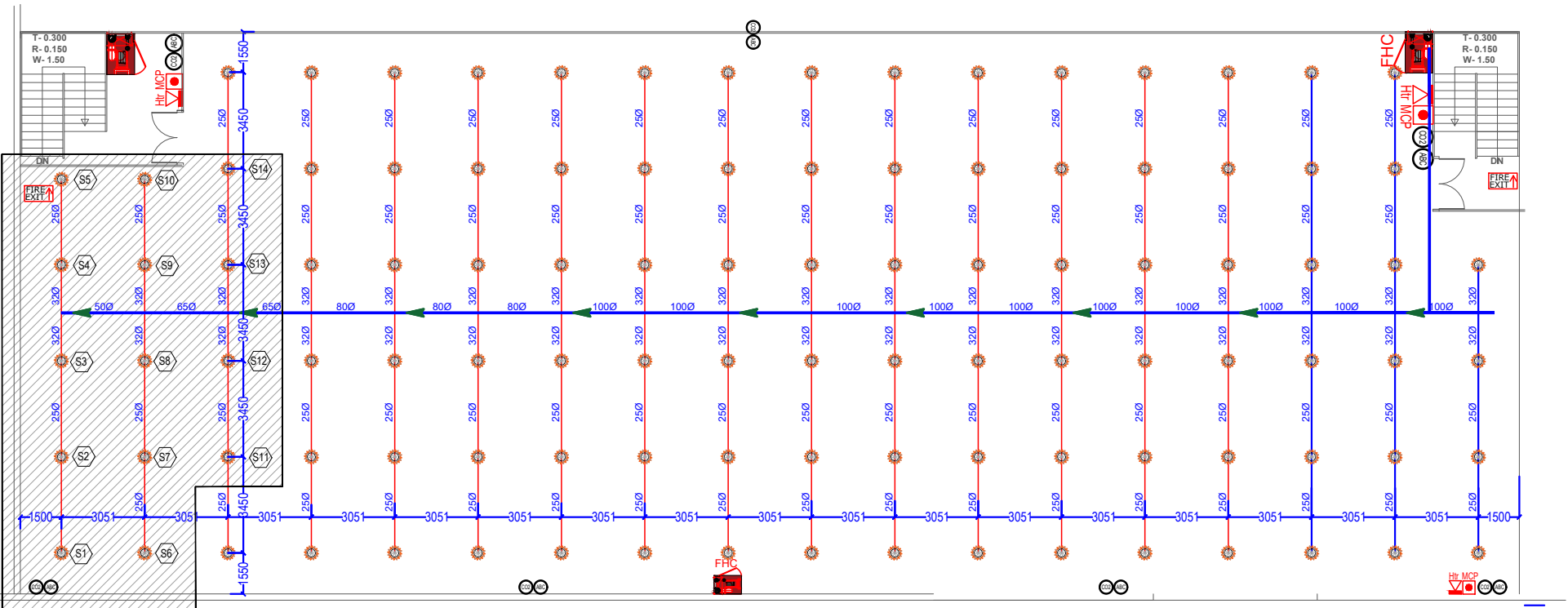
ISOMETRIC DRAWING



REFER TO ENLARGE VIEW-A

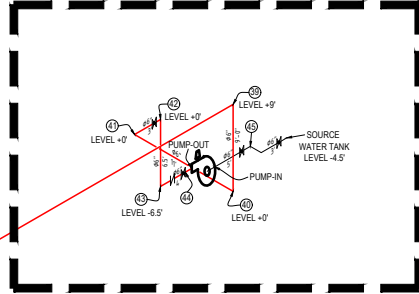
DESIGN DATA:

Remote Area Location: Mezzanine Floor
System Type: Wet System
Hazard: Ordinary Hazard
Design Density: 0.15 gpm/ sq. ft
Remote Area: Maximum: 1500 SQ. FT
Sprinkler Classification: Pendent Sprinkler
Maximum Sprinkler Coverage: 130 sq. ft
Sprinkler K-Factor: K5.6
Sprinkler Temp Rating : 68 °C
Water Flow Duration : 60 Minutes
Hose Stream allowance : 250 gpm

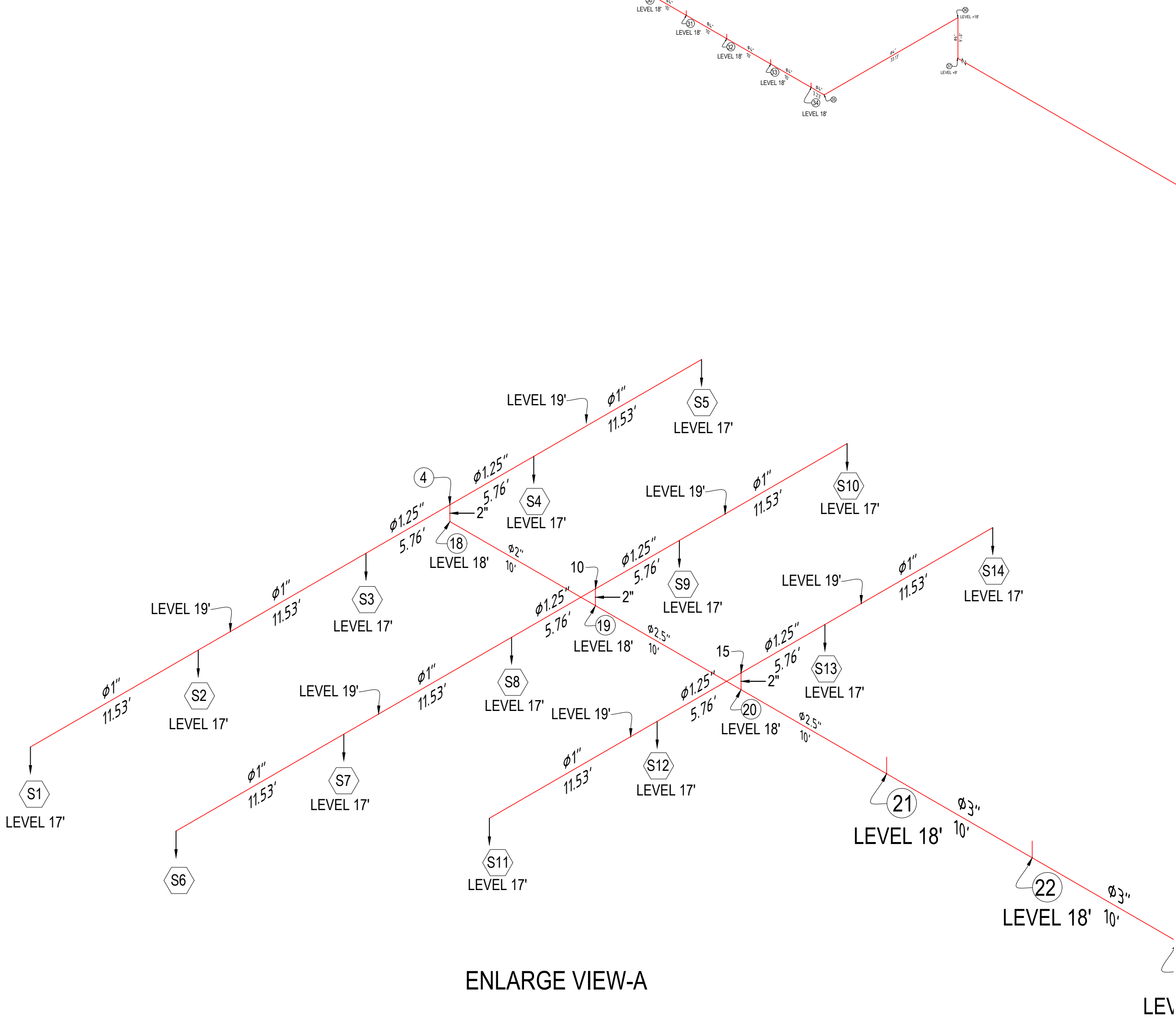


Remote Area

Mezzanine Floor

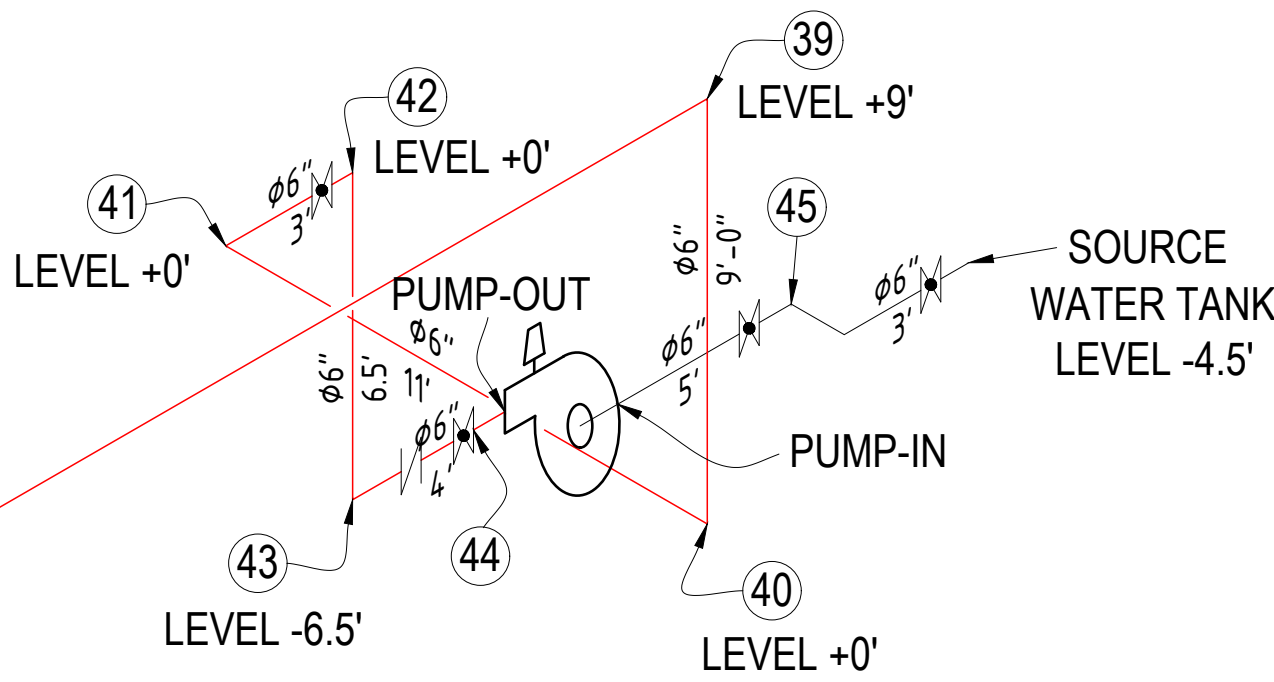


REFER TO ENLARGE VIEW-B



ENLARGE VIEW-A

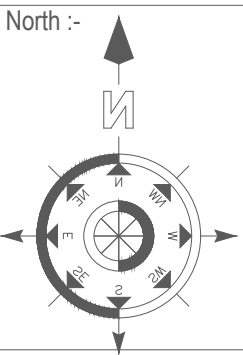
HYDRAULIC CALCULATIONS
ISOMETRIC DRAWINGS
AUTOMATIC SPRINKLER SYSTEM



ENLARGE VIEW-B

S.F DOOR WINDOW SCHEDULE			
NO.	SIZE	SILL LVL.	LINTEL LVL.
D	1.5 X 2.1	±00	2.7
D1	1.05 X 2.1	±00	2.1
D2	0.75 X 2.1	±00	2.1
W	3.0 X 1.20	+ 0.90	2.1
W/PV	0.6 X 0.90	+ 1.20	2.1

PROJECT:-
PROPOSED BUILDING PLAN OF M/s DLYFT INDIA LLP
VPO KAHNI DISTRICT - ROHTAK, Haryana,
KILA / KHASRA NO. 24, 13, 14, 17, 18, 4, 7, 1, 2, 24 Etc.
DTP Memo No. E-Diary-209258/2023/TCP-OFA/2111/2023 Dated: 11/07/2023



Dealt By	
Chkd By	
App. By	
Scale	
Date	APRIL-2021
Sheat. No.	

Joinery Detail	
R/S	= 4.00X6.00
V1	= 6.00X1.22
W1	= 1.50X1.62
D1	= 1.060X2.43
D3	= 0.75X2.13

Applicant

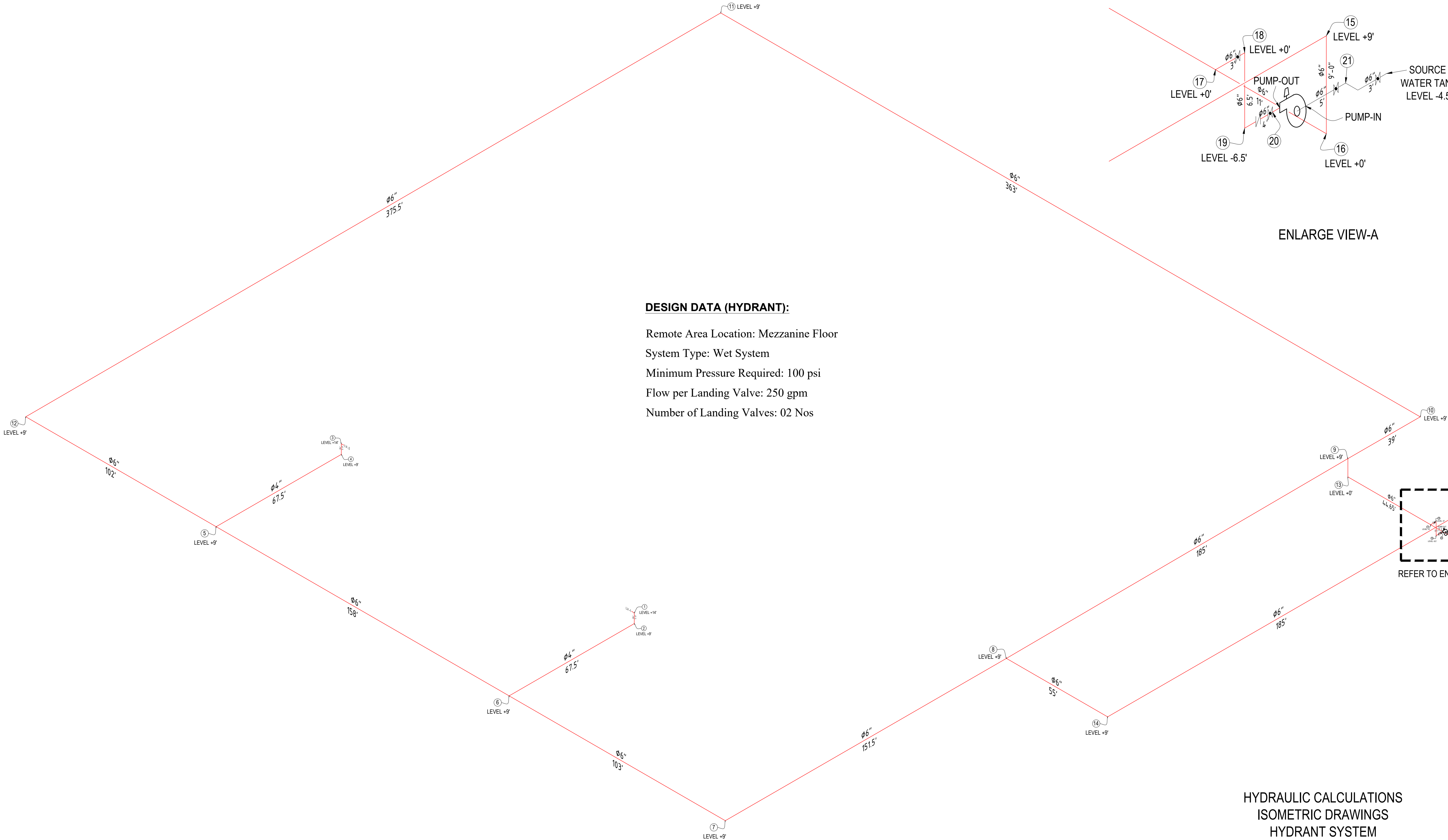
Architect

PARDEEP +91 9215551555
GRADE-I UK [LONDON] 00076066
AGNIMITRA FIRE & SAFETY SERVICES
PLOT No. 2 SECTOR 30B PHASE II, IMT ROHTAK
FIRE CONSULTANT

DLYFT INDIA LLP

HYDRANT SYSTEM

ISOMETRIC DRAWING



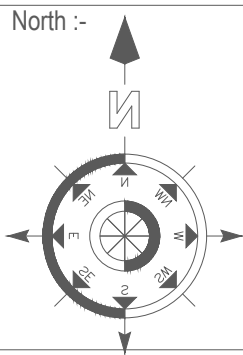
DESIGN DATA (HYDRANT):

Remote Area Location: Mezzanine Floor
System Type: Wet System
Minimum Pressure Required: 100 psi
Flow per Landing Valve: 250 gpm
Number of Landing Valves: 02 Nos

HYDRAULIC CALCULATIONS
ISOMETRIC DRAWINGS
HYDRANT SYSTEM

S.F DOOR WINDOW SCHEDULE			
NO.	SIZE	SILL LVL.	LINTEL LVL.
D	1.5 X 2.1	±00	2.7
D1	1.05 X 2.1	±00	2.1
D2	0.75 X 2.1	±00	2.1
W	3.0 X 1.20	+ 0.90	2.1
W/PV	0.6 X 0.90	+ 1.20	2.1

PROJECT:-
PROPOSED BUILDING PLAN OF M/s DLYFT INDIA LLP
VPO KAHNI DISTRICT - ROHTAK, Haryana,
KILA / KHASRA NO. 24₁, 13, 14, 17, 18, 4₁, 7₁, 24 Etc.
DTP Memo No. E-Diary-209258/2023/TCP-OFA/2111/2023 Dated: 11/07/2023



Dealt By	
Chkd By	
App. By	
Scale	
Date	APRIL-2021
Sheat. No.	

Joinery Detail	
R/S	= 4.00X6.00
V1	= 6.00X1.22
W1	=1.50X1.62
D1	=1.060X2.43
D3	= 0.75X2.13

Applicant

Architect

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AGNIMITRA FIRE & SAFETY SERVICES
PLOT No. 2 SECTOR 30B PHASE II, IMT ROHTAK
FIRE CONSULTANT