

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

REPUBLIC OF YEMEN

Ministry of Water & Environment

Urban Water supply & Sanitation Project
(UWSSP)



الجمهورية اليمنية

وزارة المياه والبيئة

مشروع المياه والصرف الصحي للمدن الحضرية



Bait Bous (Al-Nahdeen) Water Distribution Network-Phase One

(Profiles Drawings)



REPUBLIC OF YEMEN
MINISTRY OF WATER AND
ENVIRONMENT

[illegible]

Project Name

Al-Nahdeen Water Distribution Network and Elevated Tank

Drawing Title
Profile

Designed By:	Eng. Ameen Al-Maweri	Drawing No.: Pr-01
Reviewed By:	Eng. Fares Hubaish	Scale As Shown
Approved By:	Eng. Mohammed Al-Magdani	
Contract No	(IUS-AF-UWS-SAN-021)	Date 2023

LEGEND:

— — — GROUND

PIPE

THE

BEND

WASH

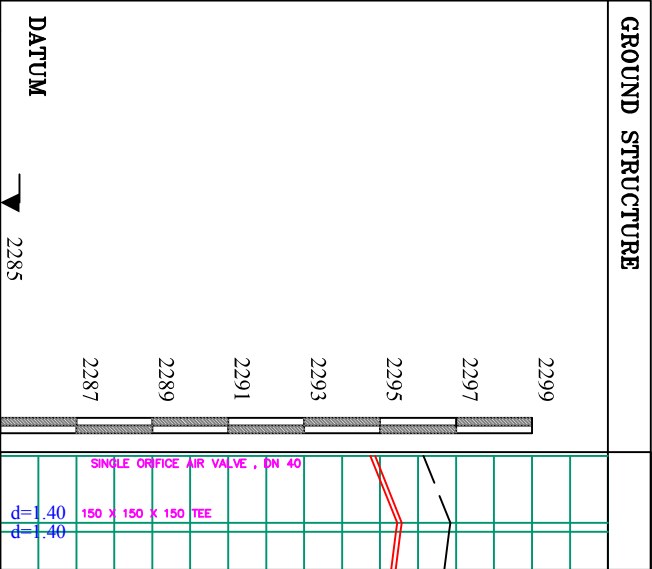
 AIR VALVE

REDUCER

 ISOLATION VALVE



REPUBLIC OF YEMEN
MINISTRY OF WATER AND
ENVIRONMENT



Water		
GROUND ELEVATION	m	2296.15
INVERT ELEVATION	m	2294.75
GRADIENT	%	2295.45
DIAMETER	mm	4.00
FITTINGS		-1.3

STATION	m	00+500.00
DISTANCE	m	17.61
		1.10
		00+517.61
		00+520.00
		00+530.00

- LEGEND:
- GROUND
 - PIPE
 - TEE
 - BEND
 - WASHOUT
 - AIR VALVE
 - REDUCER
 - ISOLATION VALVE



Project Name

Al-Nahdeen Water Distribution Network
and Elevated Tank

Drawing Title			
Profile			
Line - DM-L1			
Designed By:	Eng. Ameen Al-Maweri	Drawing No.	Pt.-02
Reviewed By:	Eng. Fares Hubaish	Scale	As Shown
Approved By:	Eng. Mohammed Al-Magdani		
Contract No	(IUS-AF-UWS-SAN-021)	Date	2023



REPUBLIC OF YEMEN
MINISTRY OF WATER AND
ENVIRONMENT

GROUND STRUCTURE		<div><div></div><div>2298</div><div>2296</div><div>2294</div><div>2292</div><div>2290</div><div>2288</div><div>2286</div></div>									
D.A.T.U.M		<div><div></div><div>2284</div><div></div></div>									
STATION		LINE DM-L2									
DISTANCE	GROUND ELEVATION										
INVERT ELEVATION	GRADIENT										
DIAMETER	FITTINGS										
00+000.00	2291.54										
00+003.00	2291.54										
00+020.00	2291.60										
00+040.00	2291.66										
00+060.00	2291.73										
00+080.00	2291.80										
00+100.00	2291.87										
00+120.00	2291.94										
00+128.90	2291.91										
00+140.00	2291.94										
00+160.00	2291.94										
00+180.00	2292.01										
00+200.00	2292.09										
00+215.10	2292.14										
00+220.00	2292.21										
00+240.00	2292.50										
00+260.00	2292.78										
00+280.00	2293.06										
00+300.00	2293.35										
00+320.00	2293.63										
00+340.00	2293.92										
00+360.00	2294.21										
00+380.00	2294.31										
00+400.00	2294.46										
00+420.00	2294.69										
00+430.00	2294.83										
00+438.90	2294.89										
00+440.00	2294.90										
00+460.00	2295.16										
00+480.00	2295.42										
00+500.00	2295.68										



Project Name

Al-Nahdeen Water Distribution Network and Elevated Tank

Drawing Title
Profile

Designed By:	Eng. Ameen Al-Maweri	Drawing No.: Pr-03
Reviewed By:	Eng. Fares Hubaish	Scale As Shown
Approved By:	Eng. Mohammed Al-Magdani	
Contract No	(IUS-AF-UWS-SAN-021)	Date 2023

LEGEND:

— — — GROUND

PIPE

TEE

BEND

 WASHOUT AIR VALVE

1

 ISOLATION VALVE

Line - DM-L2

Designed By: Eng. Ameen Al-Maweri
Drawing No. Pr.-03

Reviewed By:	Eng. Fares Hubaish	Scale
		As Shown

Approved By: Eng. Mohammed Al-Maqdami

Contract No	(IUS-AF-UWS-SAN-021)	Date	2023
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REPUBLIC OF YEMEN
MINISTRY OF WATER AND
ENVIRONMENT

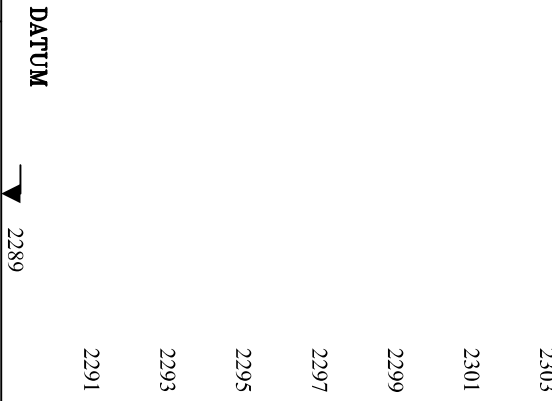
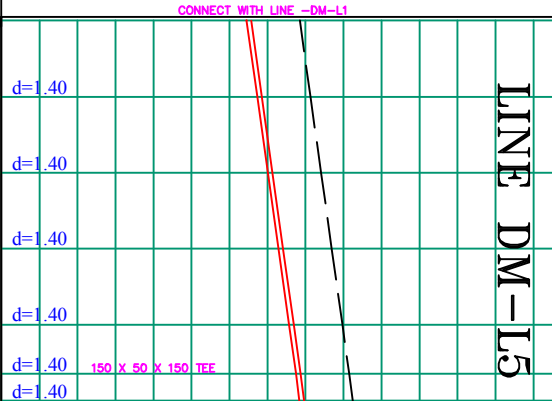
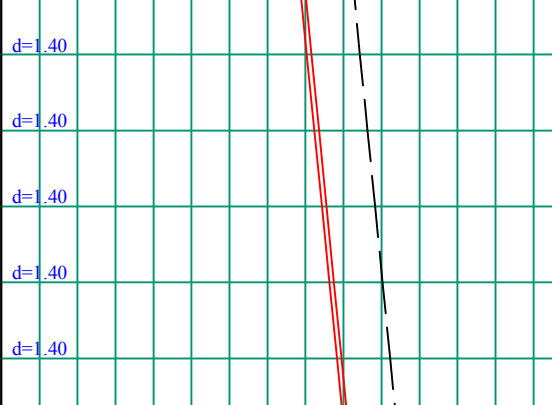

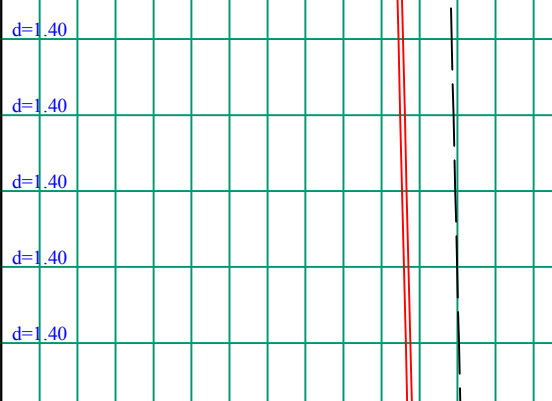
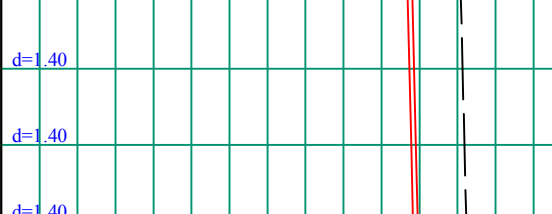
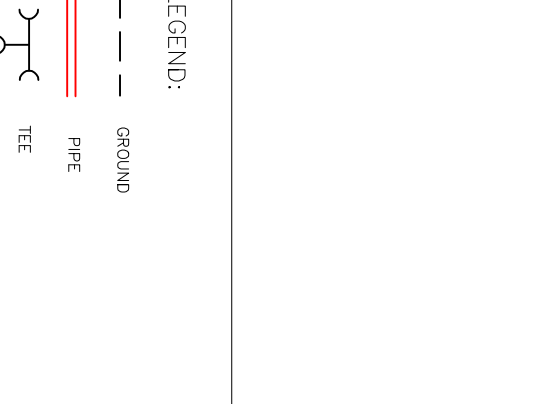
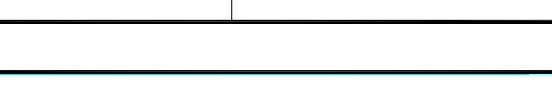
- LEGEND:
- GROUND
 - PIPE
 - TEE
 - BEND
 - WASHOUT
 - AIR VALVE
 - REDUCER
 - ISOLATION VALVE



Project Name
Al-Nahdeen Water Distribution Network
and Elevated Tank

Drawing Title Profile Line - DM- L2			
Designed By:	Eng. Ameen Al-Maweri	Drawing No.:	Pt.-04
Reviewed By:	Eng. Fares Hubaish	Scale:	As Shown
Approved By:	Eng. Mohammed Al-Magdani		
Contract No	(IUS-AF-UWS-SAN-021)	Date	2023



GROUND STRUCTURE											
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Al-Nandeen Water Distribution Network and Elevated Tank

Profile

Designed By:	Eng. Ameen Al-Maweri	Drawing No.	Pr.-5
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Reviewed By:	Eng. Fares Hubaish	Scale	As Shown
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Approved By: **Eng. Mohammed Al-Maqdami**

Contract No	(IUS-AF-UWS-SAN-021)	Date	2023
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— — — GROUND

PIPE

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BEND

WASH

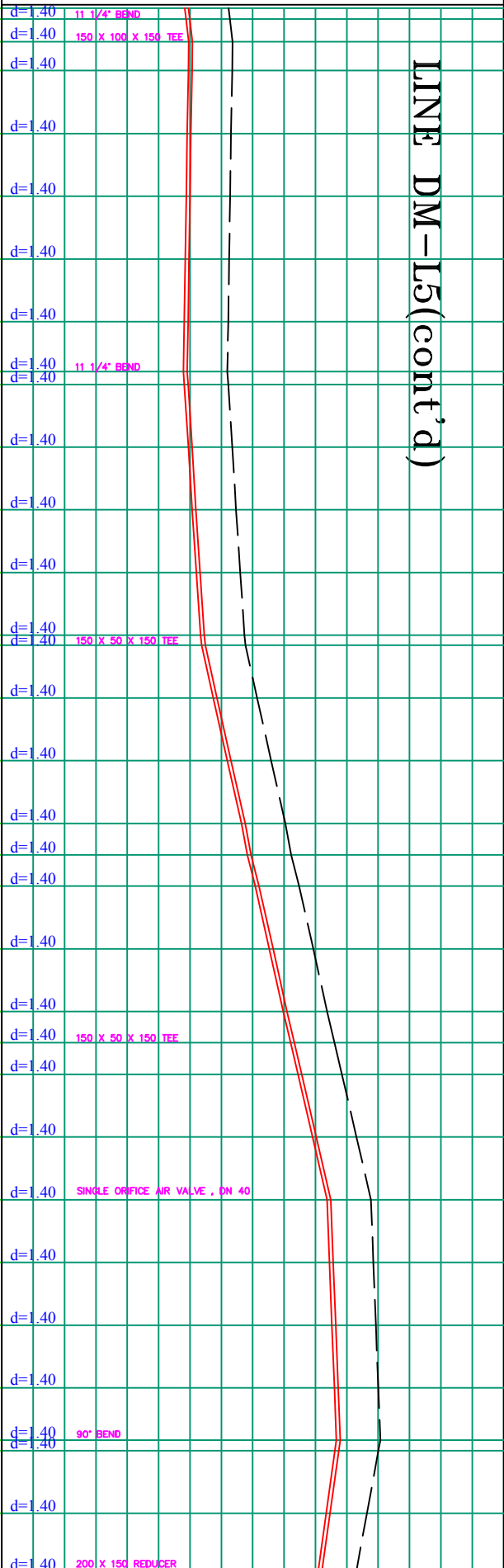
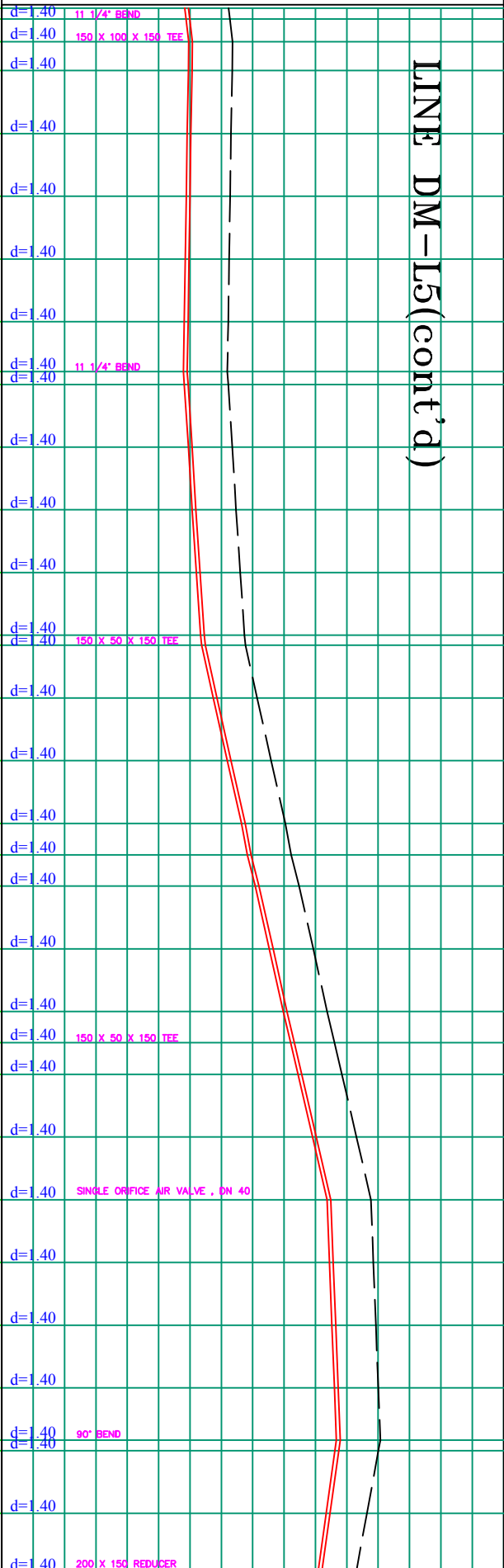
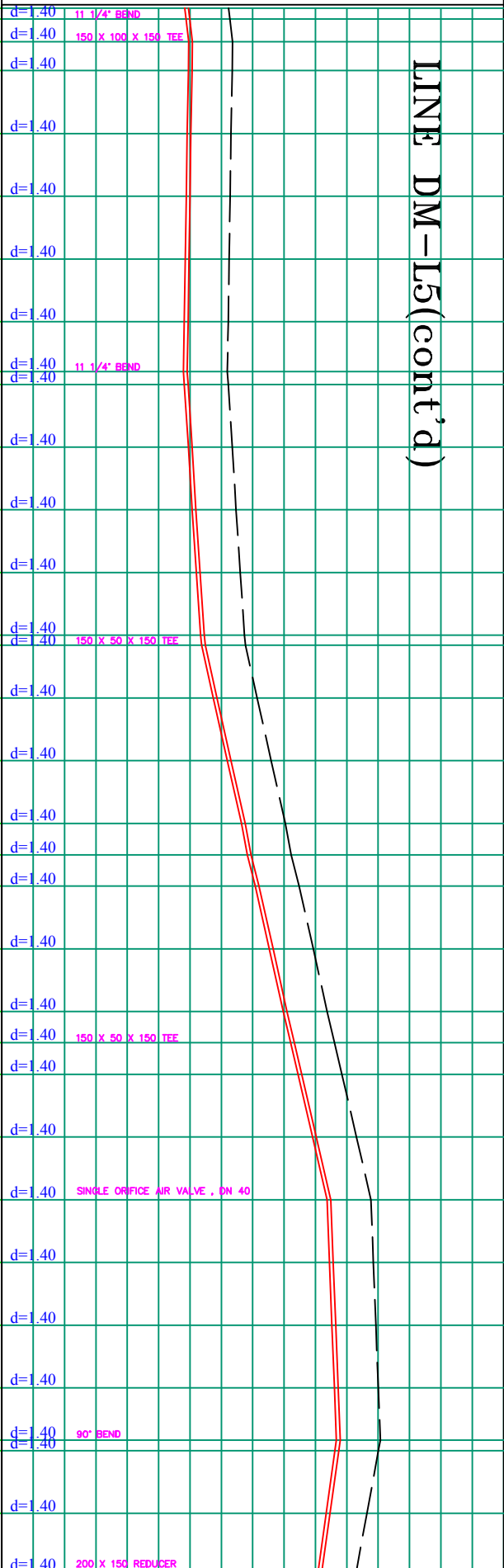
 $\gamma = 1$

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REDUCED

 ISOLATION VALVE



GROUND STRUCTURE		LINE DM-L5(cont'd)									
GROUND STRUCTURE	DATE	2294	2296	2298	2300	2302	2304	2306	2308		
STATION	DISTANCE	GROUND ELEVATION	INVERT ELEVATION	GRADIENT	DIAMETER	FITTINGS					
00+500.00	00+503.47	2299.83	2299.87	1.21	Ø180 / HDPE						
00+510.71	00+510.71	2299.96	2299.96	0.11							
00+520.00	00+520.00	2299.95	2299.95	-0.20							
00+540.00	00+540.00	2299.91	2299.91	-0.15							
00+560.00	00+560.00	2299.88	2299.88	-0.15							
00+580.00	00+580.00	2299.85	2299.85	-0.15							
00+600.00	00+600.00	2299.82	2299.82	-0.19							
00+615.88	00+620.00	2299.79	2299.82	0.65							
00+640.00	00+640.00	2299.95	2299.95	0.60							
00+660.00	00+660.00	2300.07	2300.07	0.65							
00+680.00	00+680.00	2300.20	2300.20	0.70							
00+700.00	00+703.20	2300.34	2300.37	2.20							
00+720.00	00+720.00	2300.74	2302.14	2.25							
00+740.00	00+740.00	2301.19	2302.59	2.25							
00+760.00	00+760.00	2301.64	2303.04	1.90							
00+770.00	00+770.00	2301.83	2303.23	2.50							
00+780.00	00+780.00	2302.08	2303.48	2.25							
00+800.00	00+800.00	2302.53	2303.93	2.20							
00+820.00	00+820.00	2302.97	2304.37	2.42							
00+829.90	00+829.90	2303.21	2304.61	2.31							
00+840.00	00+840.00	2303.44	2304.84	2.31							
00+860.00	00+860.00	2303.91	2305.31	2.31							
00+880.00	00+880.00	2304.37	2305.77	0.39							
00+900.00	00+900.00	2304.45	2305.85	0.39							
00+920.00	00+920.00	2304.53	2305.93	0.39							
00+940.00	00+940.00	2304.60	2306.00	0.39							
00+956.68	00+960.00	2304.67	2306.07	-1.83							
00+980.00	00+980.00	2304.24	2305.64	-1.83							
00+998.00	00+998.00	2304.17	2305.57								



Al-Nahdeen Water Distribution Network and Elevated Tank

Profile

Designed By: Eng. Ameen Al-Maweri Drawing No. Pr-6

Reviewed By:	Eng. Fares Hubaish	Scale	As Show
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Approved By: Eng. Mohammed Al-Maqdami

Contract No	(IUS-AF-UWS-SAN-021)	Date	2023
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— — — GROUND

PIPE

BEND

WASH

 AIR VALVE

—

 ISOLATION VALVE

Designed By: Eng. Ameen Al-Maweri Drawing No. Pr-6

Reviewed By: Eng. Fares Hubaish

Approved By: Eng. Mohammed Al-Maqdami

Contract No	(IUS-AF-UWS-SAN-021)	Date	2023
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