

Pond Coordinates			Bench Marks		
Pond					
Station	X	Y	Station	X	Y
0+000	440405.737	4035149.687	BM1	440532.39	4035194.56
0+116.325	440519.048	4035189.676	BM2	440403.1	4035147.23
Diversion Coordinate			Spillway Coordinates		
Diversion			Spillway		
point	X	Y	Station	X	Y
U/S (Inlet)	440485.155	4035134.315	0+000	440405.737	4035137.547
D/S (Outlet)	440444.108	4035220.446	0+018.464	440399.390	4035154.886
			0+095.158	440400.248	4035231.574

Project Name:
Kawer Jisk Pond

Client:
Ministry of Agriculture
General Directorate of Irrigation & Surface Water
Directorate of Irrigation & Surface Water -Erbil

Sheet Name:
General Site Plan

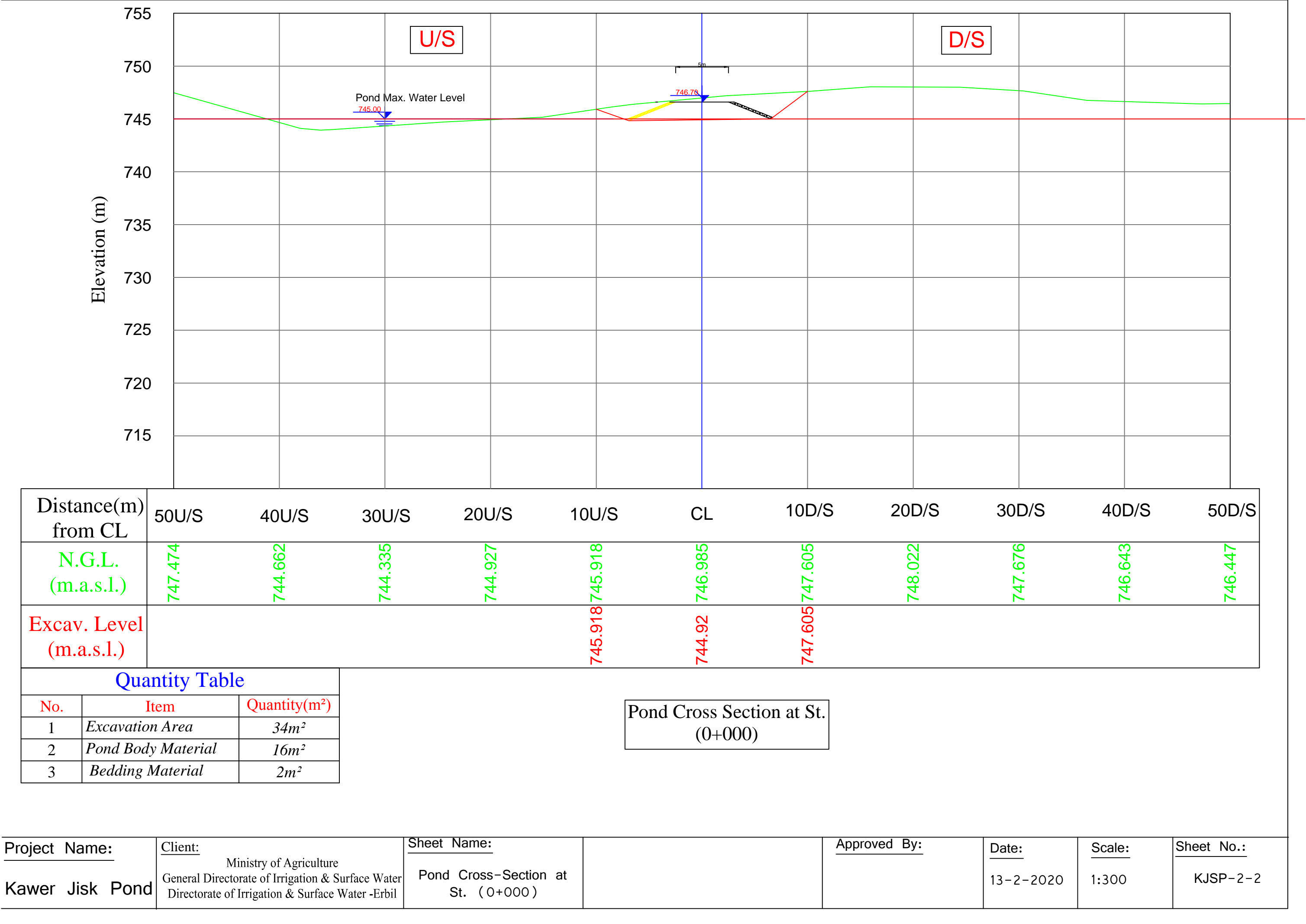
Designed by:

Approved By:

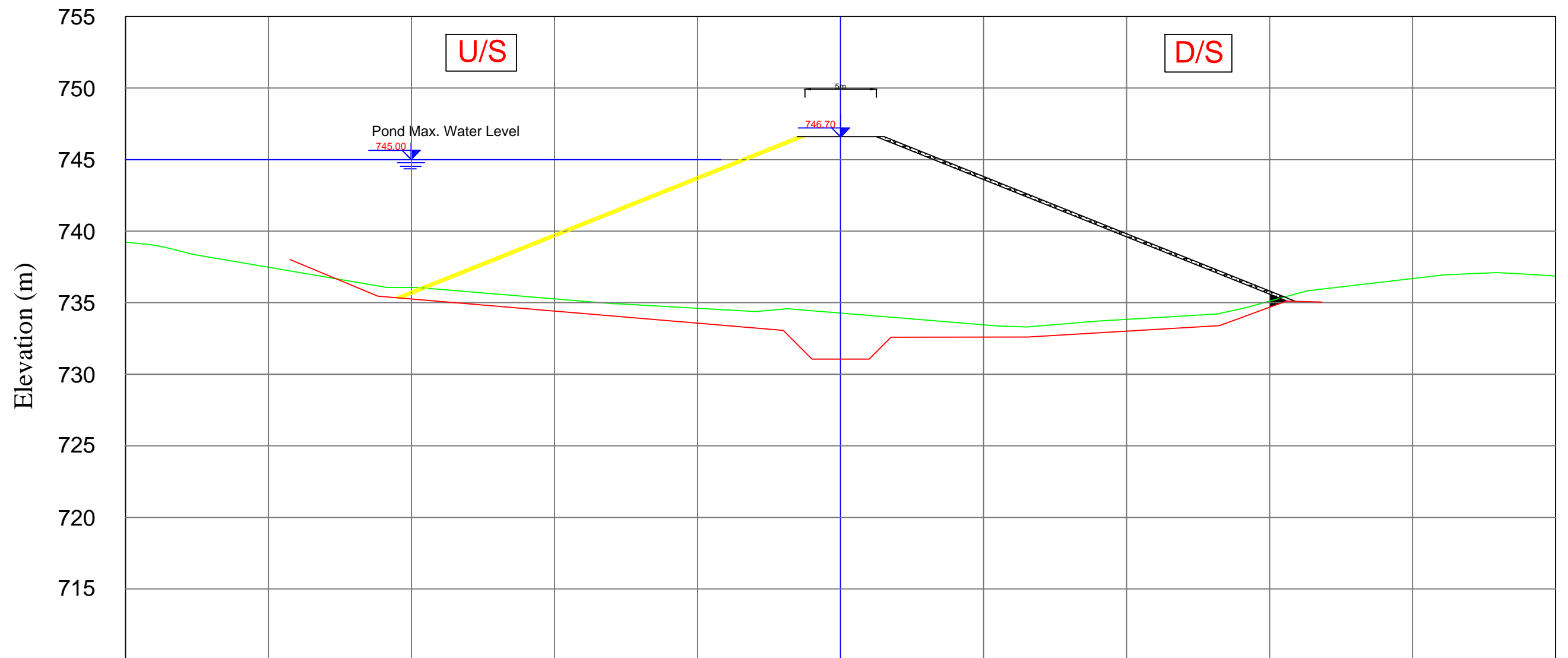
Date:
13-2-2020

Scale:
1:1750

Sheet No.:
KJSP-01



Project Name:	Client:	Sheet Name:	Approved By:	Date:	Scale:	Sheet No.:
Kawer Jisk Pond	Ministry of Agriculture General Directorate of Irrigation & Surface Water Directorate of Irrigation & Surface Water -Erbil	Pond Cross-Section at St. (0+000)		13-2-2020	1:300	KJSP-2-2



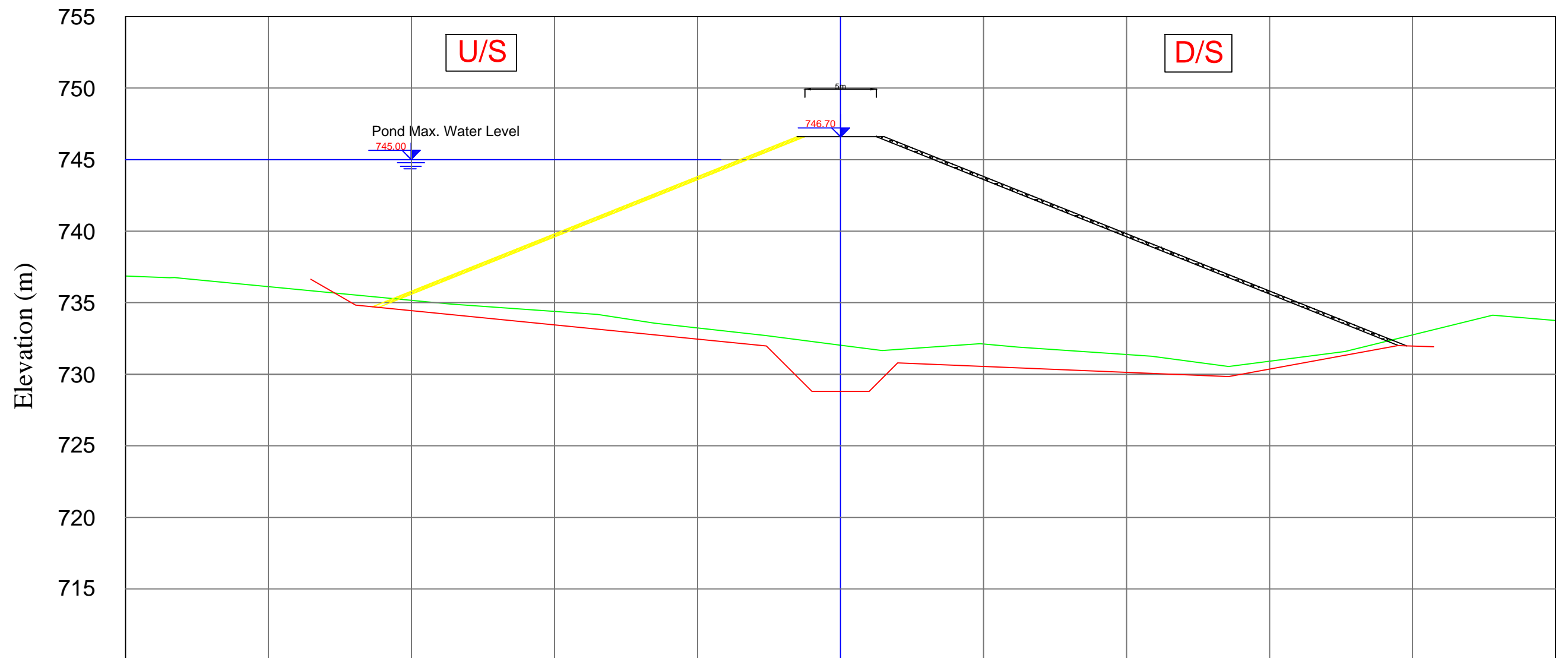
Distance(m) from CL	50U/S	40U/S	30U/S	20U/S	10U/S	CL	10D/S	20D/S	30D/S	40D/S	50D/S
N.G.L. (m.a.s.l.)	739.224	737.477	736.069	735.274	734.614	734.274	733.452	733.840	735.112	736.682	736.869
Excav. Level (m.a.s.l.)			735.25	734.41	733.57	731.06	732.59	733.03	734.68		

Quantity Table

No.	Item	Quantity(m ²)
1	Excavation Area	73m ²
2	Pond Body Material	495.5m ²
3	Bedding Material	13m ²

Pond Cross Section at St.
(0+030)

Project Name:	Client:	Sheet Name:		Approved By:	Date:	Scale:	Sheet No.:
Kawer Jisk Pond	Ministry of Agriculture General Directorate of Irrigation & Surface Water Directorate of Irrigation & Surface Water -Erbil	Pond Cross-Section at St. (0+030)	Designed by:		13-2-2020	1:300	KJSP-2-5



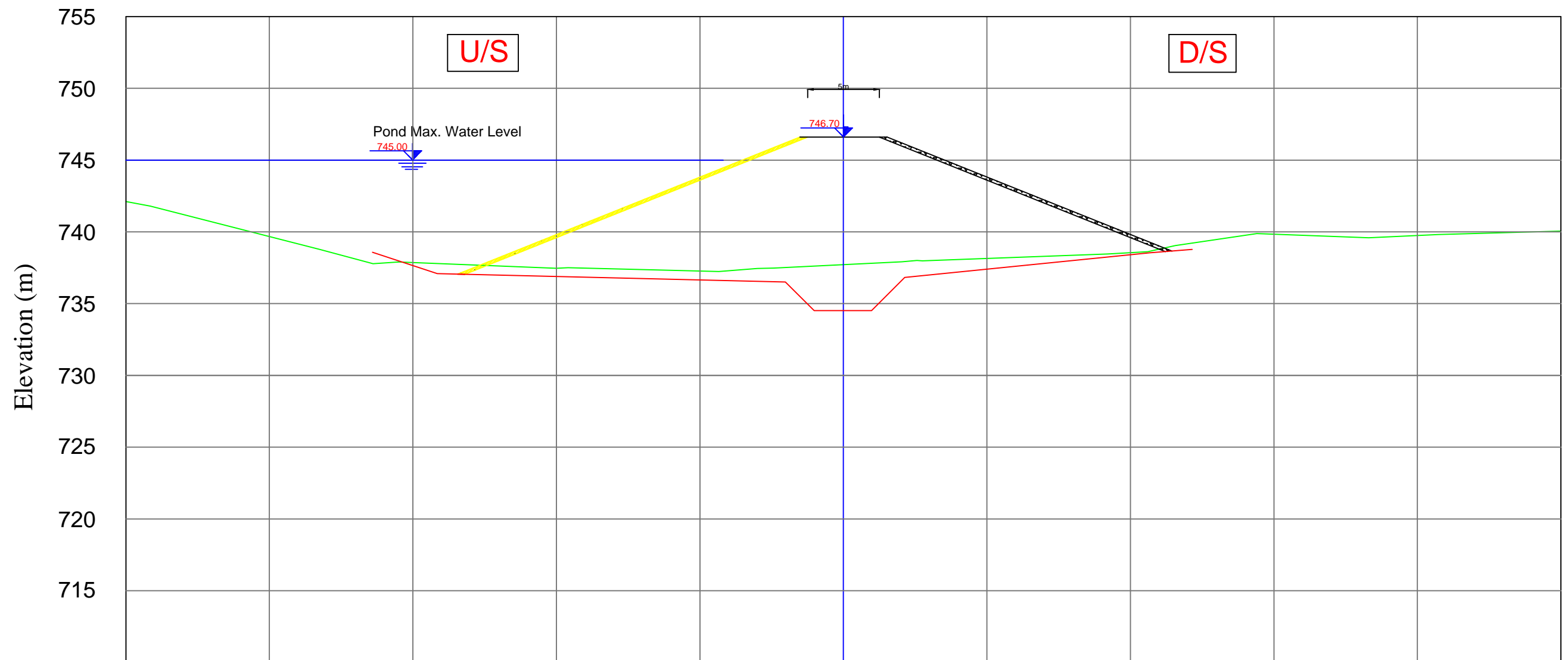
Distance(m) from CL	50U/S	40U/S	30U/S	20U/S	10U/S	CL	10D/S	20D/S	30D/S	40D/S	50D/S
N.G.L. (m.a.s.l.)	736.863	736.126	735.164	734.390	733.232	732.030	732.116	731.376	730.914	732.749	733.763
Excav. Level (m.a.s.l.)			734.44	733.45	732.46	728.790	730.54	730.12	730.45	731.96	

Quantity Table

No.	Item	Quantity(m ²)
1	Excavation Area	80.20m ²
2	Pond Body Material	645m ²
3	Bedding Material	15m ²

Pond Cross Section at St.
(0+040)

Project Name:	Client:	Sheet Name:	Approved By:	Date:	Scale:	Sheet No.:
Kawer Jisk Pond	Ministry of Agriculture General Directorate of Irrigation & Surface Water Directorate of Irrigation & Surface Water -Erbil	Pond Cross-Section at St. (0+040)	Designed by:	13-2-2020	1:300	KJSP-2-6



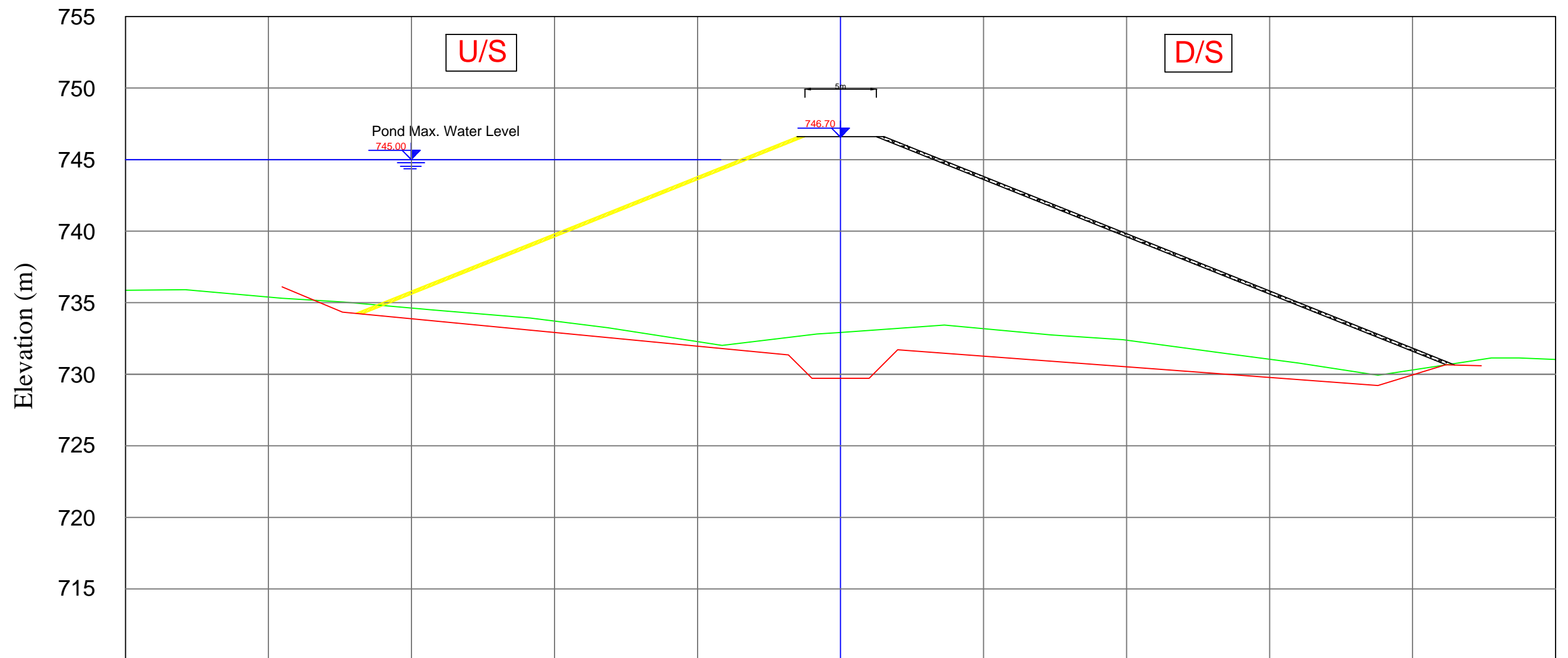
Distance(m) from CL	50U/S	40U/S	30U/S	20U/S	10U/S	CL	10D/S	20D/S	30D/S	40D/S	50D/S
N.G.L. (m.a.s.l.)	742.115	739.674	737.860	737.458	737.268	737.716	738.162	738.555	739.832	739.748	740.058
Excav. Level (m.a.s.l.)			737.64	736.89	736.65	734.51	737.41	738.4			

Quantity Table

No.	Item	Quantity(m ²)
1	Excavation Area	49.035m ²
2	Pond Body Material	282.68m ²
3	Bedding Material	10m ²

Pond Cross Section at St.
(0+020)

Project Name:	Client:	Sheet Name:	Approved By:	Date:	Scale:	Sheet No.:
Kawer Jisk Pond	Ministry of Agriculture General Directorate of Irrigation & Surface Water Directorate of Irrigation & Surface Water -Erbil	Pond Cross-Section at St. (0+020)	Designed by:	13-2-2020	1:300	KJSP-2-4



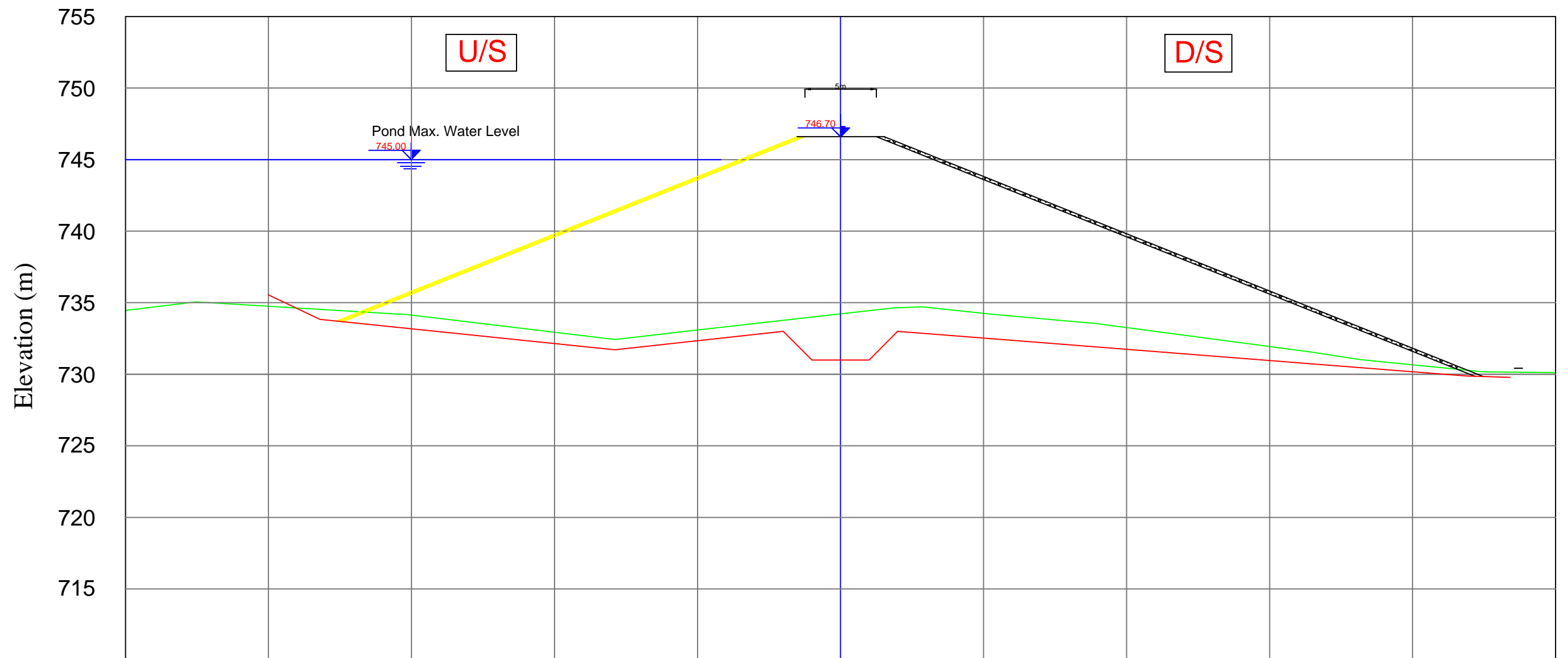
Distance(m) from CL	50U/S	40U/S	30U/S	20U/S	10U/S	CL	10D/S	20D/S	30D/S	40D/S	50D/S
N.G.L. (m.a.s.l.)	735.873	735.390	734.628	733.717	732.285	732.925	733.185	732.375	731.053	730.301	731.034
Excav. Level (m.a.s.l.)			733.85	732.92	731.94	729.71	731.28	730.52	729.76	730.00	

Quantity Table

No.	Item	Quantity(m ²)
1	Excavation Area	97.02m ²
2	Pond Body Material	650.91
3	Bedding Material	16m ²

Pond Cross Section at St.
(0+050)

Project Name:	Client:	Sheet Name:	Approved By:	Date:	Scale:	Sheet No.:
Kawer Jisk Pond	Ministry of Agriculture General Directorate of Irrigation & Surface Water Directorate of Irrigation & Surface Water -Erbil	Pond Cross-Section at St. (0+050)	Designed by:	13-2-2020	1:300	KJSP-2-7

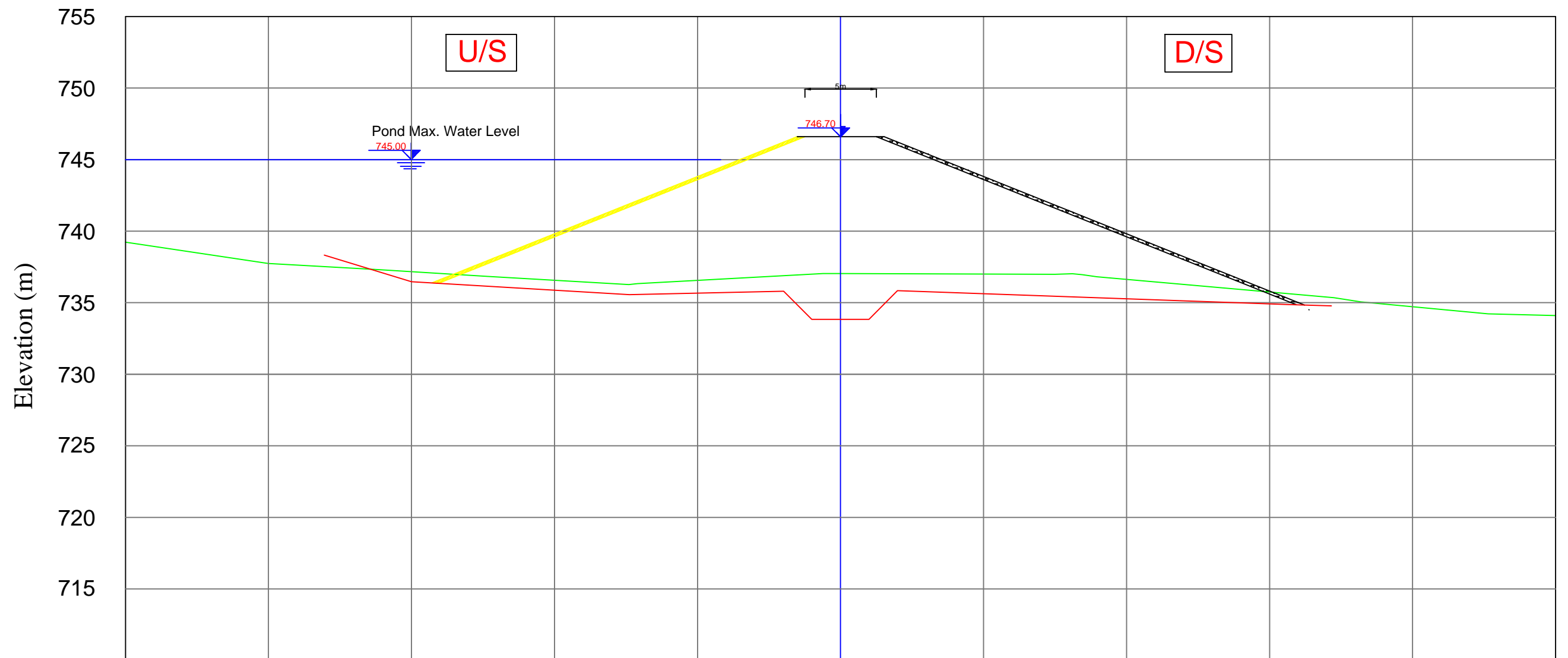


Quantity Table

No.	Item	Quantity(m ²)
1	Excavation Area	94.38m ²
2	Pond Body Material	606.93m ²
3	Bedding Material	17m ²

Pond Cross Section at St.
(0+060)

Project Name:	Client:	Sheet Name:	Approved By:	Date:	Scale:	Sheet No.:
Kawer Jisk Pond	Ministry of Agriculture General Directorate of Irrigation & Surface Water Directorate of Irrigation & Surface Water -Erbil	Pond Cross-Section at St. (0+060)	Designed by:	13-2-2020	1:300	KJSP-2-8



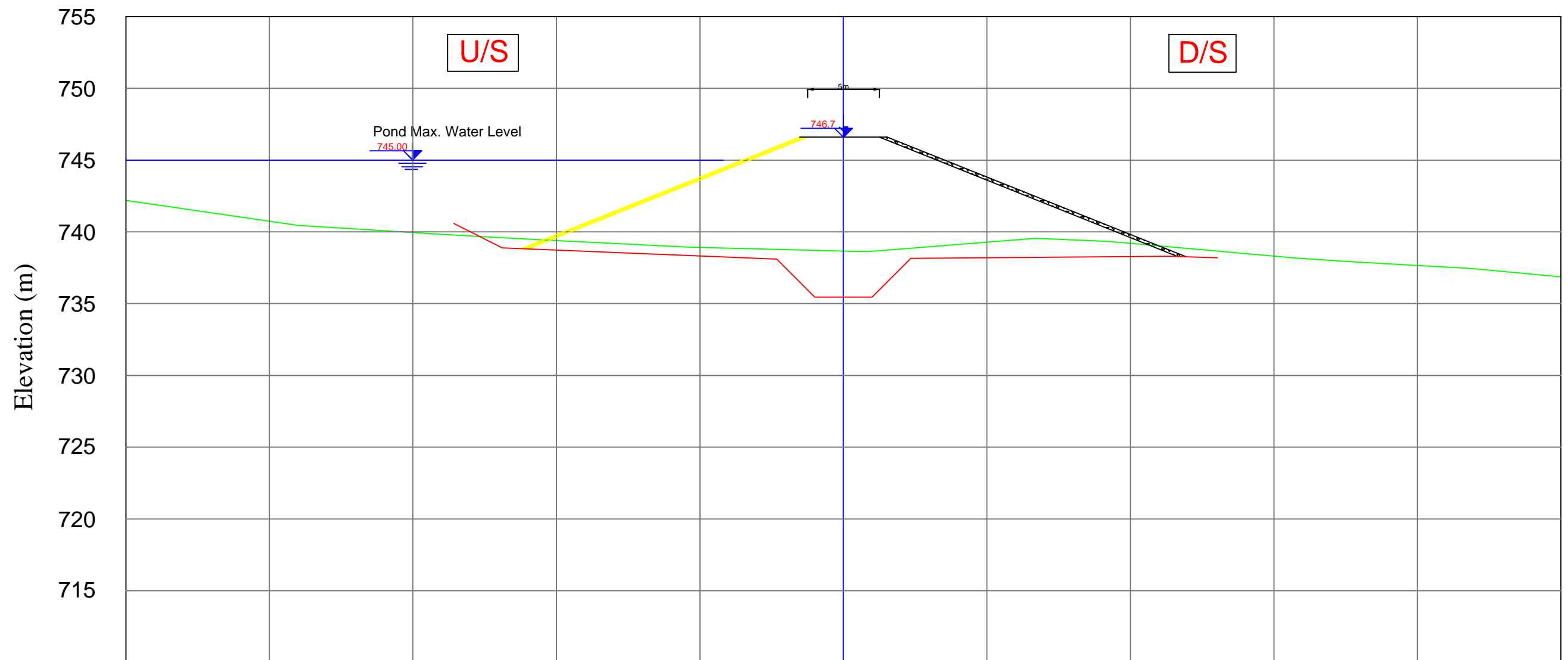
Distance(m) from CL	50U/S	40U/S	30U/S	20U/S	10U/S	CL	10D/S	20D/S	30D/S	40D/S	50D/S
N.G.L. (m.a.s.l.)	739.224	737.744	737.170	736.566	736.565	737.037	737.000	736.632	735.744	734.713	734.096
Excav. Level (m.a.s.l.)			736.41	735.87	735.66	733.82	735.62	735.21	734.91		

Quantity Table

No.	Item	Quantity(m²)
1	Excavation Area	76.54m²
2	Pond Body Material	370.26m²
3	Bedding Material	13m²

Pond Cross Section at St.
(0+080)

Project Name:	Client:	Sheet Name:	Approved By:	Date:	Scale:	Sheet No.:
Kawer Jisk Pond	Ministry of Agriculture General Directorate of Irrigation & Surface Water Directorate of Irrigation & Surface Water -Erbil	Pond Cross-Section at St. (0+080)	Designed by:	13-2-2020	1:300	KJSP-2-10



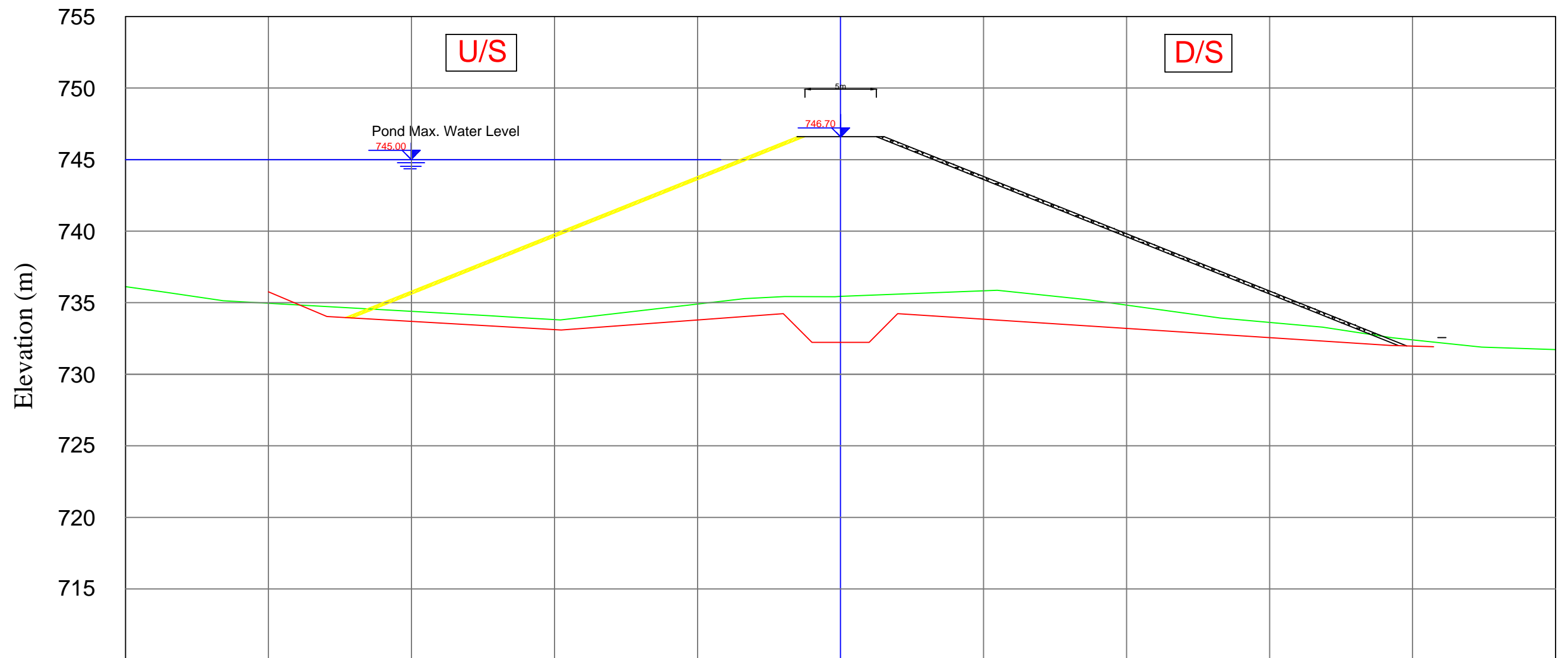
Distance(m) from CL	50U/S	40U/S	30U/S	20U/S	10U/S	CL	10D/S	20D/S	30D/S	40D/S	50D/S
N.G.L. (m.a.s.l.)	742.189	740.743	739.950	739.398	738.922	738.656	739.285	739.195	738.308	737.657	736.863
Excav. Level (m.a.s.l.)				738.73	738.31	735.41	738.19	738.27			

Quantity Table

No.	Item	Quantity(m ²)
1	Excavation Area	52.11m ²
2	Pond Body Material	231.40m ²
3	Bedding Material	10m ²

Pond Cross Section at St.
(0+090)

Project Name:	Client:	Sheet Name:	Approved By:	Date:	Scale:	Sheet No.:
Kawer Jisk Pond	Ministry of Agriculture General Directorate of Irrigation & Surface Water Directorate of Irrigation & Surface Water -Erbil	Pond Cross-Section at St. (0+090)	Designed by:	13-2-2020	1:300	KJSP-2-11



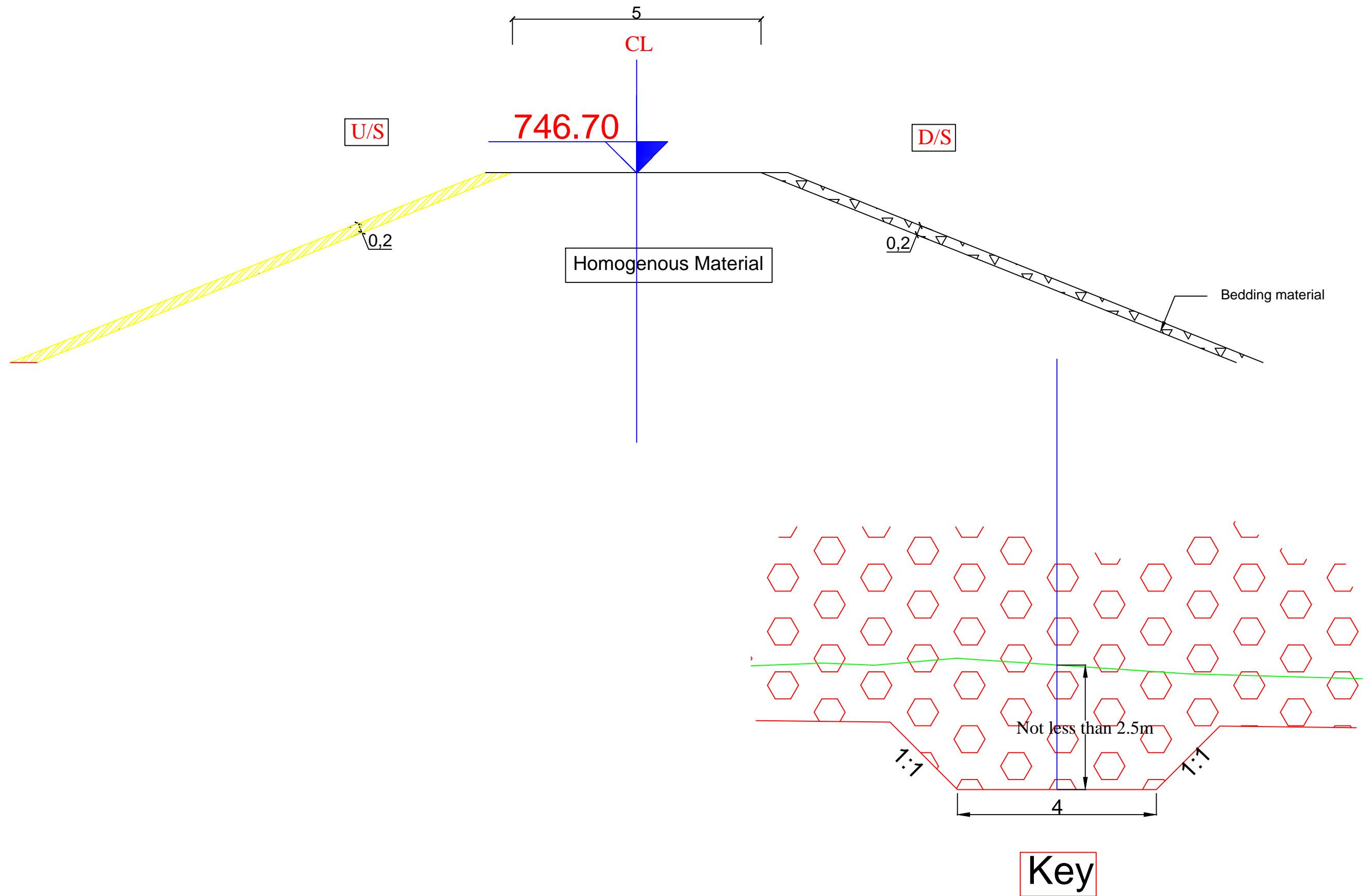
Distance(m) from CL	50U/S	40U/S	30U/S	20U/S	10U/S	CL	10D/S	20D/S	30D/S	40D/S	50D/S
N.G.L. (m.a.s.l.)	736.125	734.960	734.400	733.822	734.904	735.437	735.834	734.831	733.628	732.396	731.727
Excav. Level (m.a.s.l.)		734.960	733.69	733.11	733.79	732.24	733.84	733.2	732.5	731.97	

Quantity Table

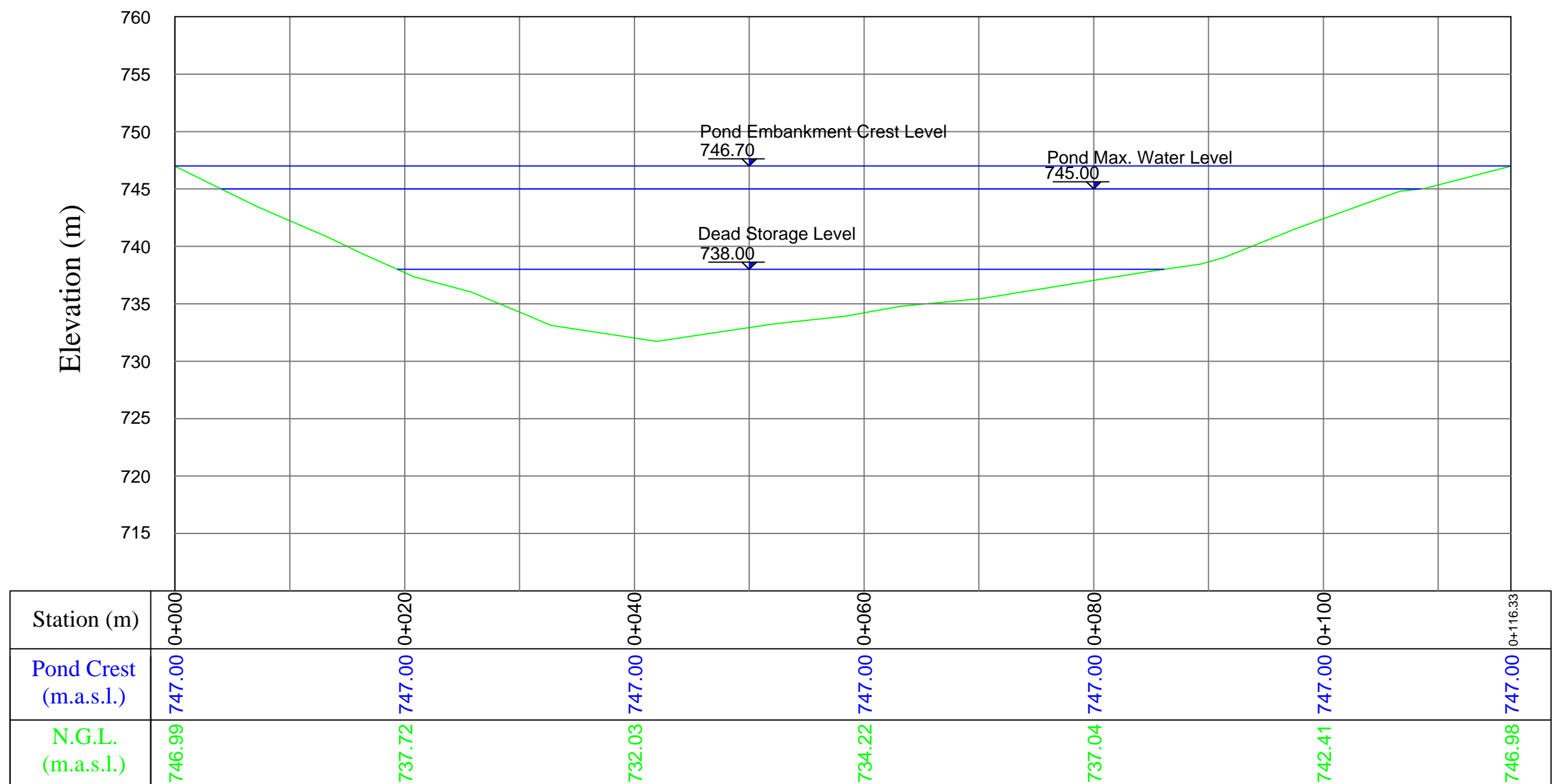
No.	Item	Quantity(m²)
1	Excavation Area	96.87m²
2	Pond Body Material	508.55m²
3	Bedding Material	16m²

Pond Cross Section at St.
(0+070)

Project Name:	Client:	Sheet Name:	Approved By:	Date:	Scale:	Sheet No.:
Kawer Jisk Pond	Ministry of Agriculture General Directorate of Irrigation & Surface Water Directorate of Irrigation & Surface Water -Erbil	Pond Cross-Section at St. (0+070)	Designed by:	13-2-2020	1:300	KJSP-2-9



Project Name:	Client:	Sheet Name:	Designed by:	Approved By:	Date:	Scale:	Sheet No.:
Kawer Jisk Pond	Ministry of Agriculture General Directorate of Irrigation & Surface Water Directorate of Irrigation & Surface Water -Erbil	Pond Details			13-2-2020	1:75	KJSP-2-15

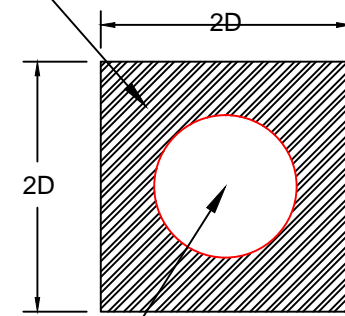


Pond Longitudinal Profile

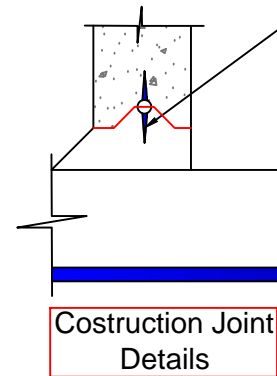
Project Name:	Client:	Sheet Name:		Approved By:	Date:	Scale:	Sheet No.:
Kawer Jisk Pond	Ministry of Agriculture General Directorate of Irrigation & Surface Water Directorate of Irrigation & Surface Water -Erbil	Pond Longitudinal Profile			13-2-2020	1:400	KJSP-2-1

Bracing Galvanized
Plate 10mm welded
to the Pipe

Bottom outlet & diversion
welded galvanized steel
Pipe Ø300mm



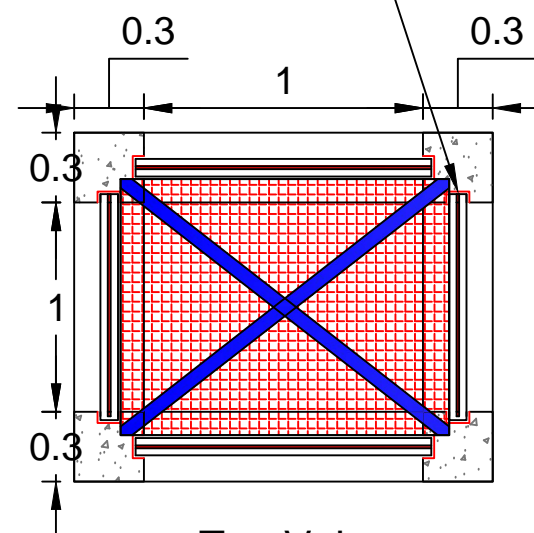
Pipe Bracing
Details



Construction Joint 40cm width
hollow bulb rubber water stop
2cm dia. with solid end bulb

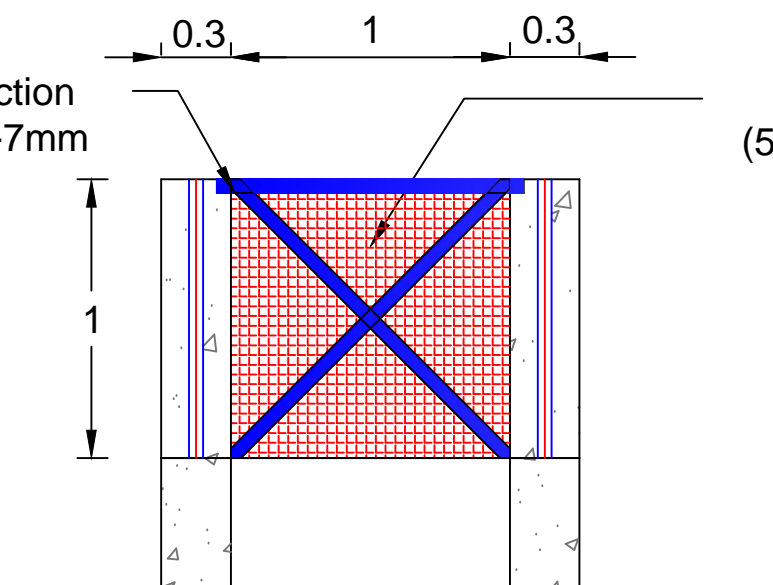
Costruction Joint
Details

C- Section
5"x5"-7mm



Top Veiw

L Section
5"x5"-7mm



Side Veiw

Trash Rack
(5x5)cm x10mm
opening

Trash Rack Details

Project Name:

Kawer Jisk Pond

Client:

Ministry of Agriculture
General Directorate of Irrigation & Water Resources
Directorate of Irrigation & Water Resources-Erbil

Sheet Name:

Bottom outlet Structure
Details

Designed by:

Approved By:

Date:

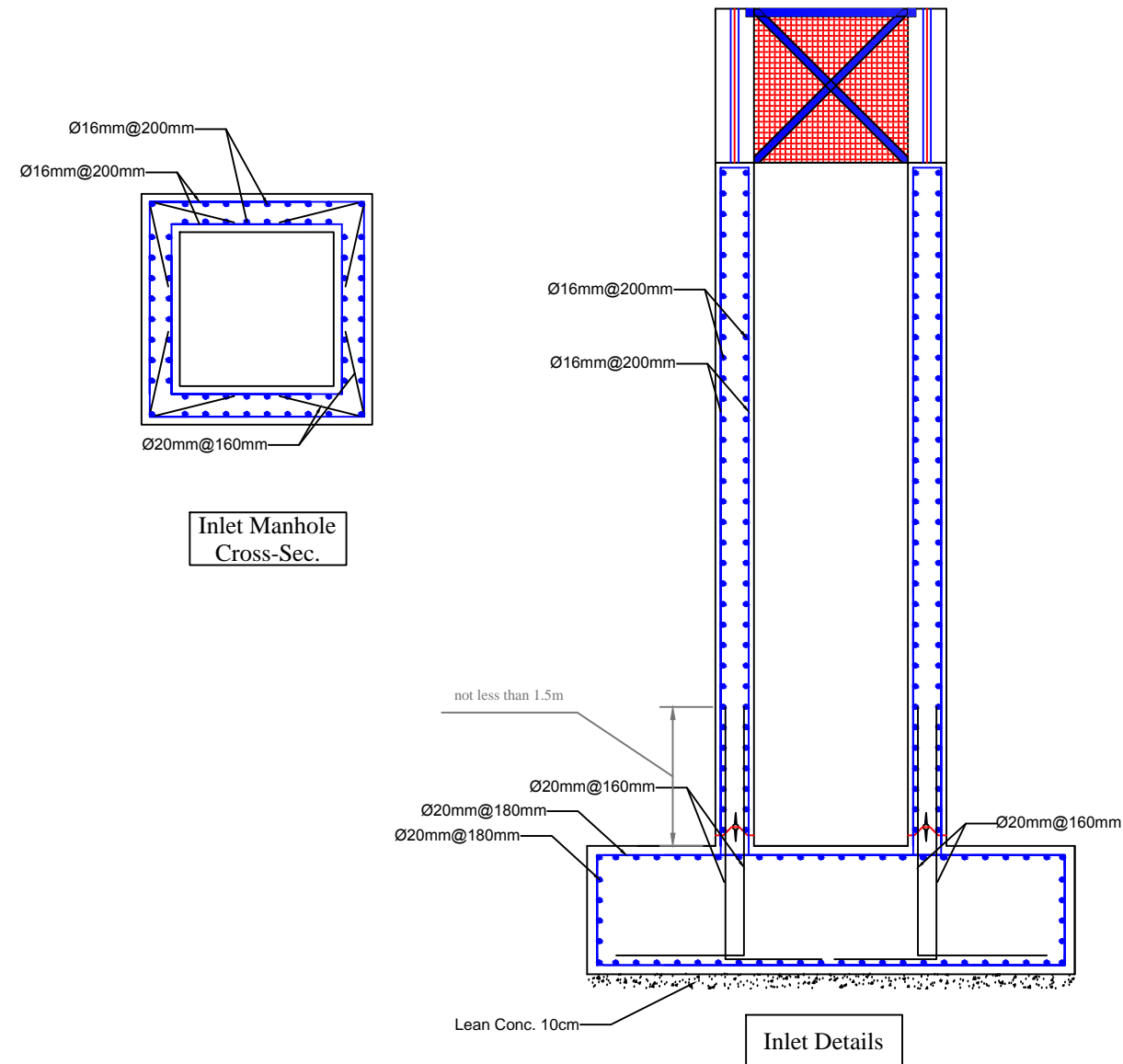
13-2-2020

Scale:

NTS

Sheet No.:

KJSP-1-5



Note:

- .1 All concrete surfaces exposed to water or moisture should be well treated with approved sealing material.
- .2 Concrete compressive strength at 28day $25 > \text{MPa}$.
- .3 Reinforcing steel bars yielding strength $400 > \text{MPa}$.
- .4 Rubber waterstop should be used at construction joints.

Project Name:	Client:	Sheet Name:	Designed by:	Approved By:	Date:	Scale:	Sheet No.:
Kawer Jisk Pond	Ministry of Agriculture General Directorate of Irrigation & Water Resources Directorate of Irrigation & Water Resources-Erbil	Reinforcement Details 2			13-2-2020	NTS	KJSP-1-4