

NOTES:  
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- CONTRACTOR TO SUBMIT DETAILED DRAWING FOR TIE IN WITH SECONDARY ROAD FOR ENGINEER APPROVAL.

- LEGEND:
- PLAN
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  - EXISTING ASPHALT EDGE
  - EXISTING CULVERT
  - SHOULDER LINE
  - PROPOSED CULVERT
  - PROPOSED DITCH
  - PROPOSED U DITCH
  - EDGE OF PAVEMENT
  - RIGID PAVEMENT
  - FLEXIBLE PAVEMENT
- PROFILE
- NATURAL GROUND LINE
  - PROPOSED DESIGN LINE
  - EXISTING RAILWAY
  - LP LOW POINT
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  - L LENGTH
  - VCL VERTICAL CURVE LENGTH
  - R RADIUS
  - PC START OF CURVE POINT
  - PT END OF CURVE POINT
  - MID MIDDLE OF CURVE POINT

Rev.	Revision History	Approved by	dtmm/yyyy
06	STAGE 04	-	JUNE 2021
05	STAGE 04	-	MAY 2021
04	REVISED STAGE 03	-	MAY 2021
03	REVISED STAGE 03	-	APRIL 2021
02	STAGE 03	-	MARCH 2021
01	STAGE 02	-	FEB 2021
00	STAGE 01	-	JAN 2021

PROJECT NAME: Rehabilitation of Pavement Layers for Cargo Road - Al Qastal

SHEET TITLE: ROAD PLANS & PROFILES  
STA. 0+800 TO 1+200 SHEET 02 OF 13

PROJECT MANAGER	HOUR ALIA	LOT NO.	DATE
DESIGNED BY	BIPRA, TEAM	BASRI NO.	JUNE 2021
DRAWN BY	BIPRA, TEAM	STAGE	STAGE 4
CHECKED BY	KA	SHEET SIZE	A1
APPROVED BY	FADWA ABU-GHAWDA	SCALE	1:1000
DECEIVING	BIPRA		

1 UNIT = 10 mm WHEN PRINTED AT A4 SHEET SIZE

PROJECT NO.	ZONE	BUILDING	SHEET NO.
PD-1156	-	-	RD-04



DATUM 722.000m

CHAINAGE	PROPOSED ROAD LEVEL	EXISTING GROUND LEVEL	VERTICAL ALIGNMENT	HORIZONTAL ALIGNMENT
0+500.000		738.686		
0+620.000		738.356		
0+640.000		737.992		
0+660.000		737.674		
0+680.000		737.311		
0+700.000		736.959		
0+720.000		736.582		
0+740.000		736.206		
0+760.000		735.862		
0+780.000		735.522		
0+800.000		735.208		
0+820.000		734.882		
0+840.000		734.532		
0+860.000		734.153		
0+880.000		733.845		
0+900.000		733.512		
0+920.000		733.171		
0+940.000		732.917		
0+960.000		732.577		
0+980.000		732.289		
1+000.000		731.939		
1+020.000		731.578		
1+040.000		731.293		
1+060.000		730.974		
1+080.000		730.656		
1+100.000		730.380		
1+120.000		730.036		
1+140.000		729.749		
1+160.000		729.417		
1+180.000		729.064		
1+200.000		728.653		

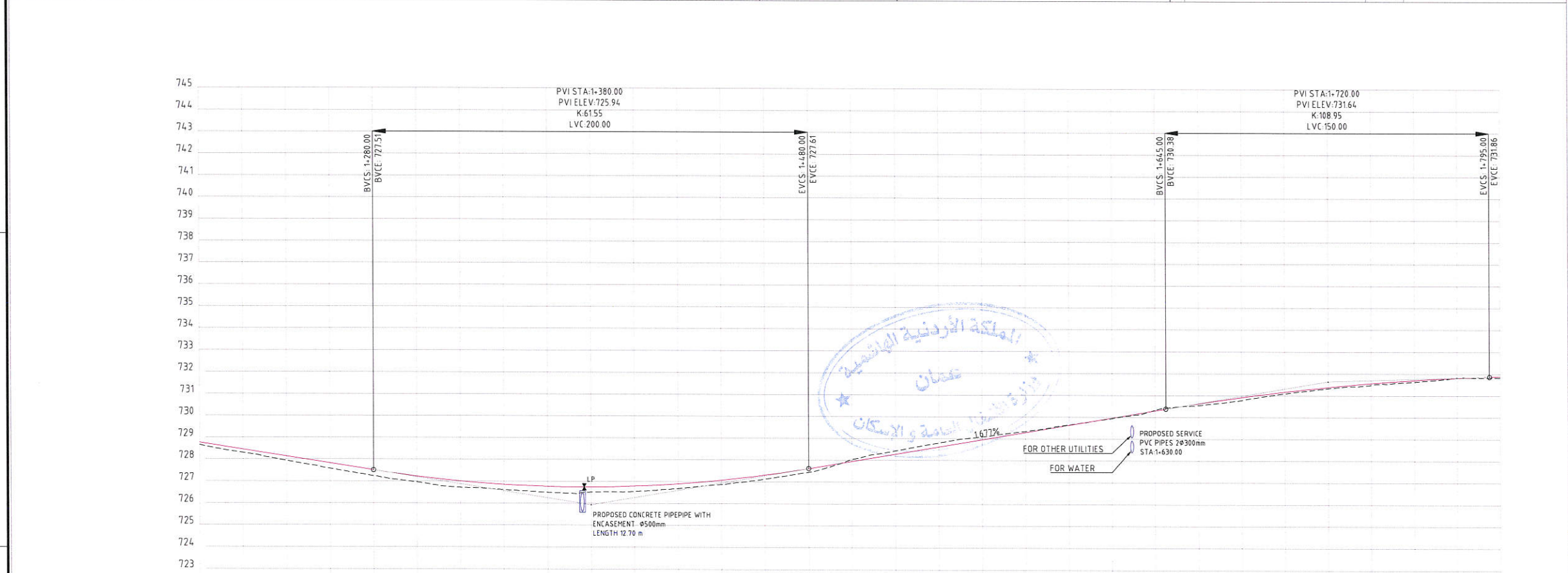
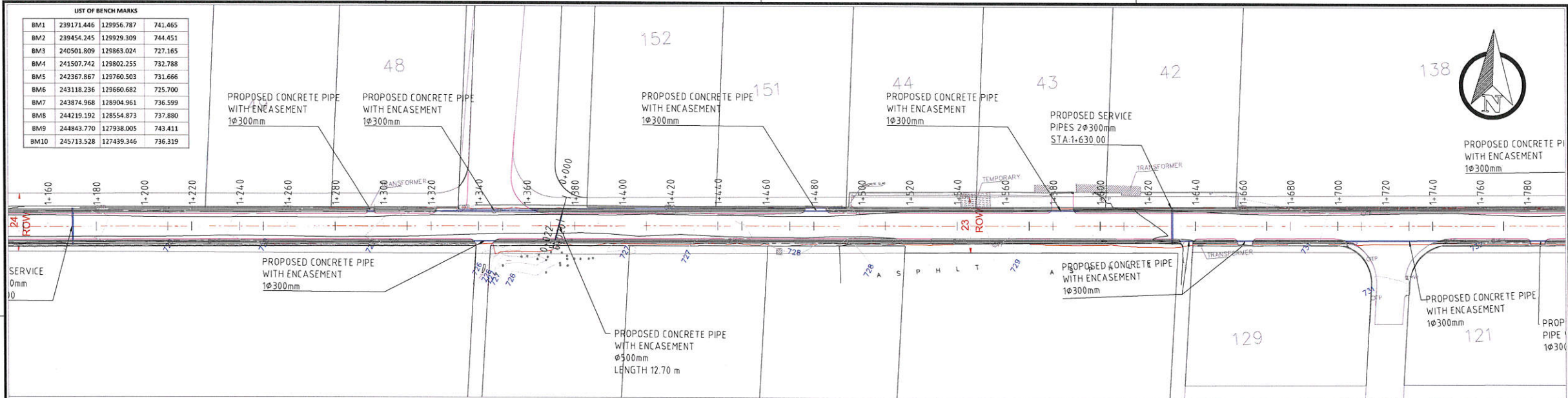
VERTICAL ALIGNMENT: -15.72%  
HORIZONTAL ALIGNMENT: L = 896.913, L = 1071.164

CONTINUED CARGO ROAD PROFILE

Handwritten signature: Mostaqbal

**LIST OF BENCH MARKS**

BM1	239171.446	129956.787	741.465
BM2	239454.245	129929.309	744.451
BM3	240501.809	129863.024	737.165
BM4	241507.742	129802.255	732.788
BM5	242367.867	129760.503	731.666
BM6	243118.236	129660.682	725.700
BM7	243874.968	128904.961	736.599
BM8	244219.192	128554.873	737.880
BM9	244843.770	127938.005	743.411
BM10	245713.528	127439.346	736.319



DATUM 722.000m

PROPOSED ROAD LEVEL		728.453	728.138	727.824	727.509	727.227	727.010	726.858	726.771	726.719	726.792	726.900	727.073	727.311	727.613	727.949	728.284	728.619	728.955	729.290	729.626	729.961	730.296	730.380	730.621	730.911	731.164	731.380	731.559	731.702	731.807	731.863	731.878		
EXISTING GROUND LEVEL	728.653	728.296	727.931	727.580	727.243	726.962	726.719	726.616	726.496	726.505	726.552	726.684	726.871	727.124	727.441	728.022	728.429	728.804	729.079	729.340	729.639	729.942	730.326	730.542	730.778	731.086	731.319	731.481	731.632	731.828	731.978	731.878			
VERTICAL ALIGNMENT		-1.572%																																	
HORIZONTAL ALIGNMENT																																			
CHAINAGE	1+200.000	1+220.000	1+240.000	1+260.000	1+280.000	1+300.000	1+320.000	1+340.000	1+360.000	1+380.000	1+400.000	1+420.000	1+440.000	1+460.000	1+480.000	1+500.000	1+520.000	1+540.000	1+560.000	1+580.000	1+600.000	1+620.000	1+640.000	1+660.000	1+680.000	1+700.000	1+720.000	1+740.000	1+760.000	1+780.000	1+800.000				

CONTINUED CARGO ROAD PROFILE

Client: THE HASHEMITE KINGDOM OF JORDAN  
Ministry of Public Works & Housing

Design Consultant: **MOSTAQBAL**  
Tel: 00962 6 5923602, Fax: 00962 6 5923601  
P.O.Box: 2084 Amman, Postal Code: 11821 Jordan  
http://www.mostaqbal.jo

Key Plan: [Diagram showing the location of the road on a larger map]

NOTES:  
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- CONTRACTOR TO SUBMIT DETAILED DRAWING FOR TIE IN WITH SECONDARY ROAD FOR ENGINEER APPROVAL.

LEGEND:  
PLAN  
- - - EXISTING ROAD CENTERLINE  
- - - STAKEOUT/DAYLIGHT  
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VCL VERTICAL CURVE LENGTH  
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PT END OF CURVE POINT  
MID MIDDLE OF CURVE POINT

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Rev. Revision History Approved by dhhm/yyy

PROJECT NAME: Rehabilitation of Pavement Layers for Cargo Road - Al Qastal

SHEET TITLE: ROAD PLANS & PROFILES  
STA. 1+200 TO 1+800 SHEET 03 OF 13

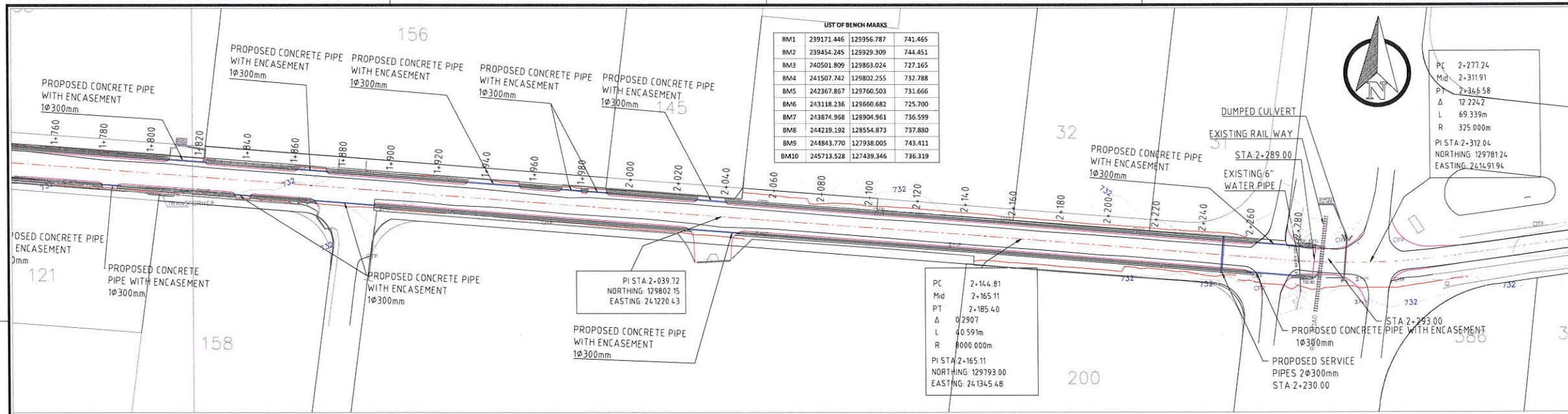
PROJECT MANAGER	NOUR ALLEH	LOT NO.	-
DESIGNED BY	RIFRA, TEAM	BASIN NO.	-
DRAWN BY	RIFRA, TEAM	DATE	JUNE 2021
CHECKED BY	N.A.	STAGE	STAGE 4
APPROVED BY	FADWA ABU-OLHAND	SHEET SIZE	A1
DISCIPLINE	RIFRA	SCALE	1:1000

1 UNIT = 10 mm WHEN PRINTED AT A4 SHEET SIZE

PROJECT NO.	PD-1156	ZONE	-	BUILDING	-	SHEET NO.	RD-05
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Handwritten signature: *W. Jabri*



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BM1	239171.446	129956.787	741.465
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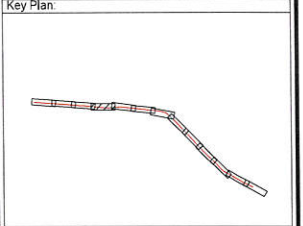
PC 2+277.24  
 Mid 2+311.91  
 P 2+346.58  
 Δ 12.2742  
 L 69.339m  
 R 325.000m  
 PI STA 2+312.04  
 NORTHING 129781.24  
 EASTING 241491.94

PC 2+144.81  
 Mid 2+165.11  
 PT 2+185.40  
 Δ 0.2907  
 L 40.591m  
 R 8000.000m  
 PI STA 2+165.11  
 NORTHING 129793.00  
 EASTING 241345.48

Client: THE HASHEMITE KINGDOM OF JORDAN Ministry of Public Works & Housing

Design Consultant: **MOSTAQBAL**

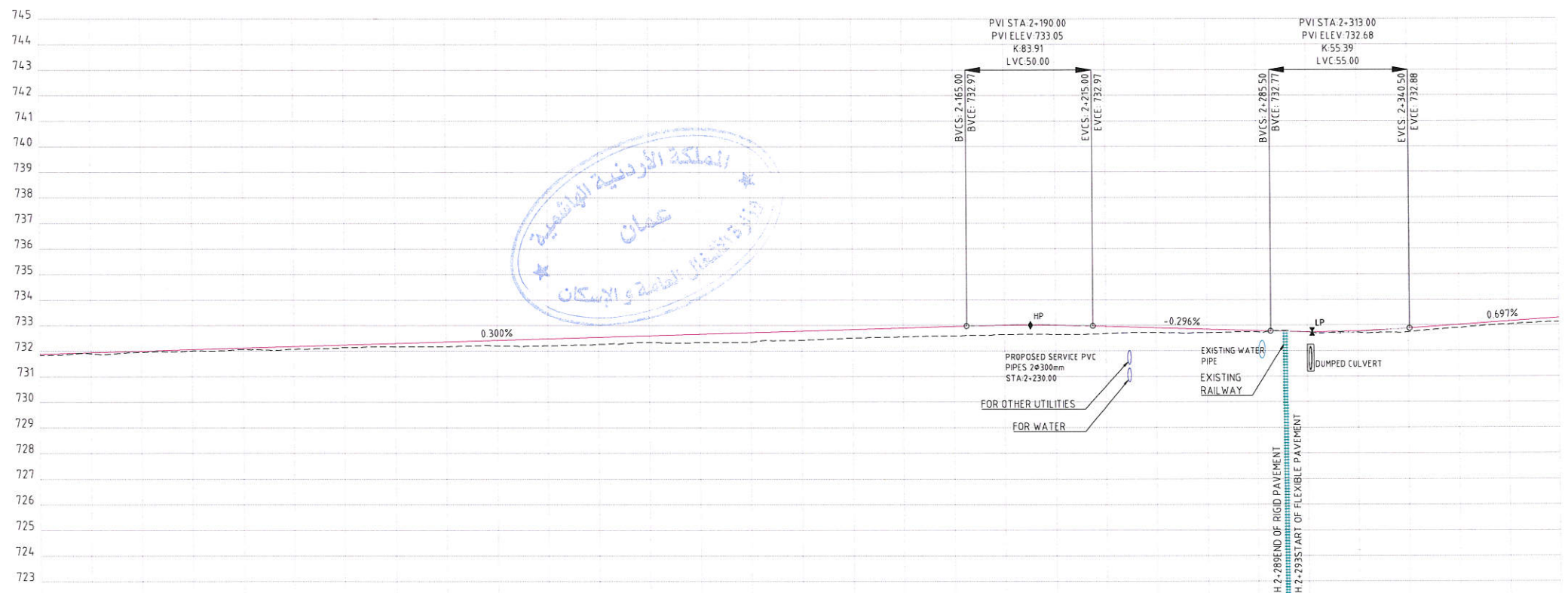
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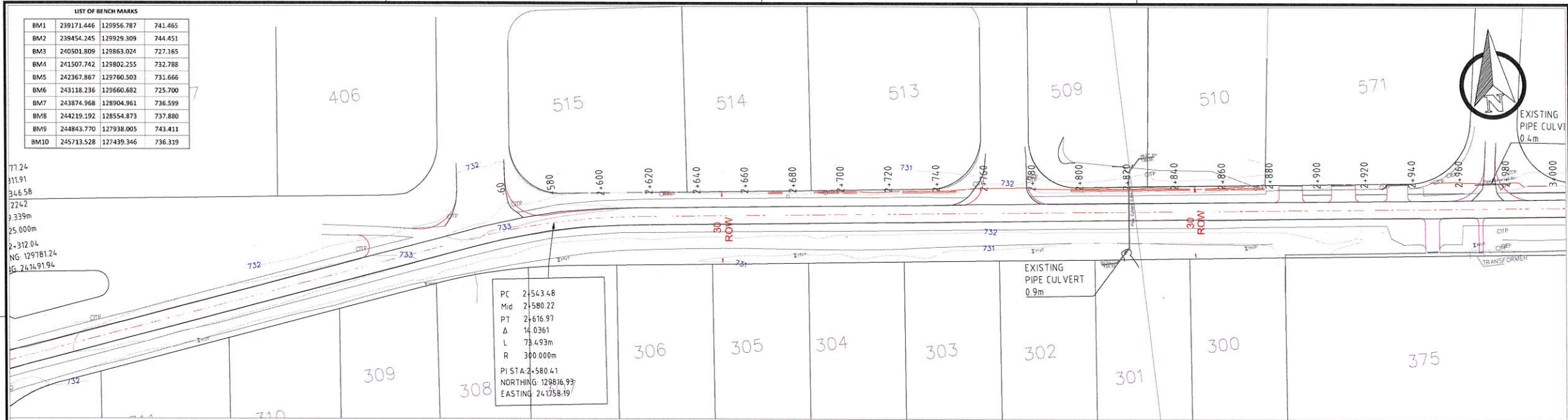
DATUM 722.000m

PROPOSED ROAD LEVEL	731878	731938	731998	732058	732118	732178	732238	732298	732358	732418	732478	732538	732598	732658	732718	732778	732838	732898	732958	733018	733078	733138	733198	733258	733318	733378	733438	733498	733558	733618	733678	733738	733798	733858	733918	733978	734038	734098	734158	734218	734278	734338	734398	734458	734518	734578	734638	734698	734758	734818	734878	734938	734998	735058	735118	735178	735238	735298	735358	735418	735478	735538	735598	735658	735718	735778	735838	735898	735958	736018	736078	736138	736198	736258	736318	736378	736438	736498	736558	736618	736678	736738	736798	736858	736918	736978	737038	737098	737158	737218	737278	737338	737398	737458	737518	737578	737638	737698	737758	737818	737878	737938	737998	738058	738118	738178	738238	738298	738358	738418	738478	738538	738598	738658	738718	738778	738838	738898	738958	739018	739078	739138	739198	739258	739318	739378	739438	739498	739558	739618	739678	739738	739798	739858	739918	739978	740038	740098	740158	740218	740278	740338	740398	740458	740518	740578	740638	740698	740758	740818	740878	740938	740998	741058	741118	741178	741238	741298	741358	741418	741478	741538	741598	741658	741718	741778	741838	741898	741958	742018	742078	742138	742198	742258	742318	742378	742438	742498	742558	742618	742678	742738	742798	742858	742918	742978	743038	743098	743158	743218	743278	743338	743398	743458	743518	743578	743638	743698	743758	743818	743878	743938	743998	744058	744118	744178	744238	744298	744358	744418	744478	744538	744598	744658	744718	744778	744838	744898	744958	745018	745078	745138	745198	745258	745318	745378	745438	745498	745558	745618	745678	745738	745798	745858	745918	745978	746038	746098	746158	746218	746278	746338	746398	746458	746518	746578	746638	746698	746758	746818	746878	746938	746998	747058	747118	747178	747238	747298	747358	747418	747478	747538	747598	747658	747718	747778	747838	747898	747958	748018	748078	748138	748198	748258	748318	748378	748438	748498	748558	748618	748678	748738	748798	748858	748918	748978	749038	749098	749158	749218	749278	749338	749398	749458	749518	749578	749638	749698	749758	749818	749878	749938	749998	750058	750118	750178	750238	750298	750358	750418	750478	750538	750598	750658	750718	750778	750838	750898	750958	751018	751078	751138	751198	751258	751318	751378	751438	751498	751558	751618	751678	751738	751798	751858	751918	751978	752038	752098	752158	752218	752278	752338	752398	752458	752518	752578	752638	752698	752758	752818	752878	752938	752998	753058	753118	753178	753238	753298	753358	753418	753478	753538	753598	753658	753718	753778	753838	753898	753958	754018	754078	754138	754198	754258	754318	754378	754438	754498	754558	754618	754678	754738	754798	754858	754918	754978	755038	755098	755158	755218	755278	755338	755398	755458	755518	755578	755638	755698	755758	755818	755878	755938	755998	756058	756118	756178	756238	756298	756358	756418	756478	756538	756598	756658	756718	756778	756838	756898	756958	757018	757078	757138	757198	757258	757318	757378	757438	757498	757558	757618	757678	757738	757798	757858	757918	757978	758038	758098	758158	758218	758278	758338	758398	758458	758518	758578	758638	758698	758758	758818	758878	758938	758998	759058	759118	759178	759238	759298	759358	759418	759478	759538	759598	759658	759718	759778	759838	759898	759958	760018	760078	760138	760198	760258	760318	760378	760438	760498	760558	760618	760678	760738	760798	760858	760918	760978	761038	761098	761158	761218	761278	761338	761398	761458	761518	761578	761638	761698	761758	761818	761878	761938	761998	762058	762118	762178	762238	762298	762358	762418	762478	762538	762598	762658	762718	762778	762838	762898	762958	763018	763078	763138	763198	763258	763318	763378	763438	763498	763558	763618	763678	763738	763798	763858	763918	763978	764038	764098	764158	764218	764278	764338	764398	764458	764518	764578	764638	764698	764758	764818	764878	764938	764998	765058	765118	765178	765238	765298	765358	765418	765478	765538	765598	765658	765718	765778	765838	765898	765958	766018	766078	766138	766198	766258	766318	766378	766438	766498	766558	766618	766678	766738	766798	766858	766918	766978	767038	767098	767158	767218	767278	767338	767398	767458	767518	767578	767638	767698	767758	767818	767878	767938	767998	768058	768118	768178	768238	768298	768358	768418	768478	768538	768598	768658	768718	768778	768838	768898	768958	769018	769078	769138	769198	769258	769318	769378	769438	769498	769558	769618	769678	769738	769798	769858	769918	769978	770038	770098	770158	770218	770278	770338	770398	770458	770518	770578	770638	770698	770758	770818	770878	770938	770998	771058	771118	771178	771238	771298	771358	771418	771478	771538	771598	771658	771718	771778	771838	771898	771958	772018	772078	772138	772198	772258	772318	772378	772438	772498	772558	772618	772678	772738	772798	772858	772918	772978	773038	773098	773158	773218	773278	773338	773398	773458	773518	773578	773638	773698	773758	773818	773878	773938	773998	774058	774118	774178	774238	774298	774358	774418	774478	774538	774598	774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LIST OF BENCH MARKS

BM1	239171.446	129956.787	741.465
BM2	239454.245	129929.309	744.451
BM3	240501.809	129863.024	727.165
BM4	241507.742	129802.255	732.788
BM5	242367.867	129760.503	731.666
BM6	243118.236	129660.682	725.700
BM7	243874.968	128904.961	736.599
BM8	244219.192	128554.873	737.880
BM9	244843.770	127938.005	743.411
BM10	245713.528	127439.346	736.319

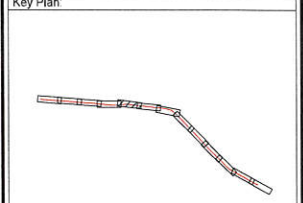
77.24  
311.91  
346.58  
224.2  
3339m  
25.000m  
2-312.04  
NG 129781.24  
EG 24169194



PC 2+543.48  
Mid 2+580.22  
PT 2+616.97  
Δ 14.0361  
L 73.493m  
R 300.000m  
PI STA 2+580.41  
NORTHING 129816.93  
EASTING 241758.19

Client: THE HASHEMITE KINGDOM OF JORDAN  
Ministry of Public Works & Housing

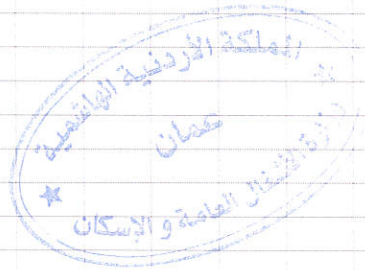
Design Consultant: **MOSTAQBAL**  
Tel: 00962 6 5923602, Fax: 00962 6 5923601  
P.O.Box 2034 Amman, Postal Code 11821 Jordan  
http://www.mostaqbal.jo



NOTES

- ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE INDICATED
- CONTRACTOR TO SUBMIT DETAILED DRAWING FOR THE IN WITH SECONDARY ROAD FOR ENGINEER APPROVAL.

- LEGEND
- PLAN
  - EXISTING ROAD CENTERLINE
  - STAKEOUT/DAYLIGHT
  - EXISTING ASPHALT EDGE
  - EXISTING CULVERT
  - SHOULDER LINE
  - PROPOSED CULVERT
  - PROPOSED DITCH
  - PROPOSED U DITCH
  - EDGE OF PAVEMENT
  - RIGID PAVEMENT
  - FLEXIBLE PAVEMENT
  - PROFILE
  - NATURAL GROUND LINE
  - PROPOSED DESIGN LINE
  - EXISTING RAILWAY
  - LP LOW POINT
  - HP HIGH POINT
  - PI POINT OF INTERSECTION
  - Δ DELTA
  - L LENGTH
  - VCL VERTICAL CURVE LENGTH
  - R RADIUS
  - PC START OF CURVE POINT
  - PT END OF CURVE POINT
  - MID MIDDLE OF CURVE POINT



DATUM 722.000m

PROPOSED ROAD LEVEL	733.291	733.395	733.428	733.507	733.517	733.507	733.494	733.449	733.389	733.378	733.268	733.208	733.148	733.087	733.027	732.967	732.907	732.846	732.786	732.726	732.666	732.605	732.575	732.548	732.512	732.500	732.512	732.548	732.575	732.605	732.665	732.725	732.785	732.845	732.905	732.965	
EXISTING GROUND LEVEL	733.174	733.162	733.145	733.103	733.062	733.019	732.994	732.969	732.962	732.895	732.867	732.831	732.733	732.681	732.679	732.601	732.581	732.522	732.504	732.495	732.515	732.535	732.598	732.605	732.513	732.678	732.720	732.756	732.775	732.812	732.857						
VERTICAL ALIGNMENT	0.697%		VCL= 50.000		-0.301%										VCL= 100.000		0.300%																				
HORIZONTAL ALIGNMENT	L= 196.898																			R= 300.000																	
CHAINAGE	2+400.000	2+420.000	2+440.000	2+453.441	2+460.000	2+480.000	2+500.000	2+520.000	2+540.000	2+553.741	2+560.000	2+580.000	2+600.000	2+620.000	2+640.000	2+660.000	2+680.000	2+685.738	2+700.000	2+720.000	2+740.000	2+760.000	2+780.000	2+786.062	2+800.000	2+820.000	2+840.000	2+860.000	2+880.000	2+886.091	2+900.000	2+920.000	2+940.000	2+960.000	2+980.000	2+986.789	3+000.000

06	STAGE 04	-	JUNE 2021
05	STAGE 04	-	MAY 2021
04	REVISED STAGE 03	-	MAY 2021
03	REVISED STAGE 03	-	APRIL 2021
02	STAGE 03	-	MARCH 2021
01	STAGE 02	-	FEB 2021
00	STAGE 01	-	JAN 2021

Rev. Revision History Approved by d8m/ym/yy

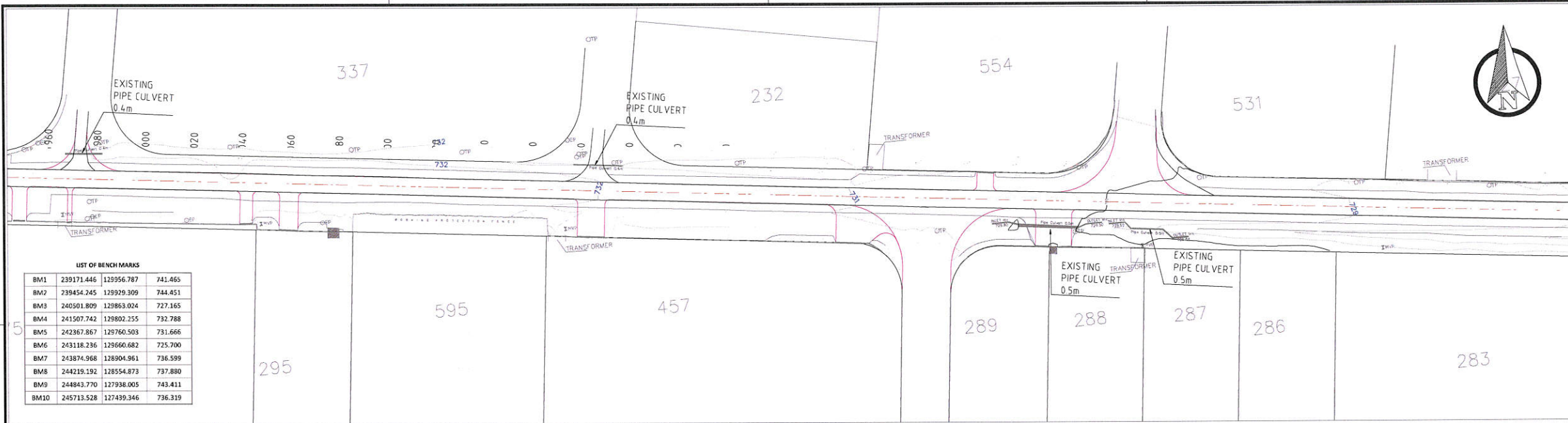
PROJECT NAME: Rehabilitation of Pavement Layers for Cargo Road - Al Qastal

SHEET TITLE: ROAD PLANS & PROFILES  
STA. 2+400 TO 3+000 SHEET 05 OF 13

PROJECT MANAGER	NOUR ALLA	LDY NO.	-
DESIGNED BY	INPRA TEAM	BASIN NO.	-
DRAWN BY	INPRA TEAM	DATE	JUNE 2021
CHECKED BY	N.A.	STAGE	STAGE 4
APPROVED BY	FADWA ABU-GHAWDA	SHEET SIZE	A1
DISCIPLINE	INPRA	SCALE	1:1000

PROJECT NO.	ZONE	BUILDING	SHEET NO.
PD-1156	-	-	RD-07

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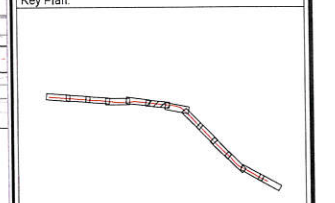


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Client:  
THE HASHEMITE KINGDOM OF JORDAN  
Ministry of Public Works & Housing

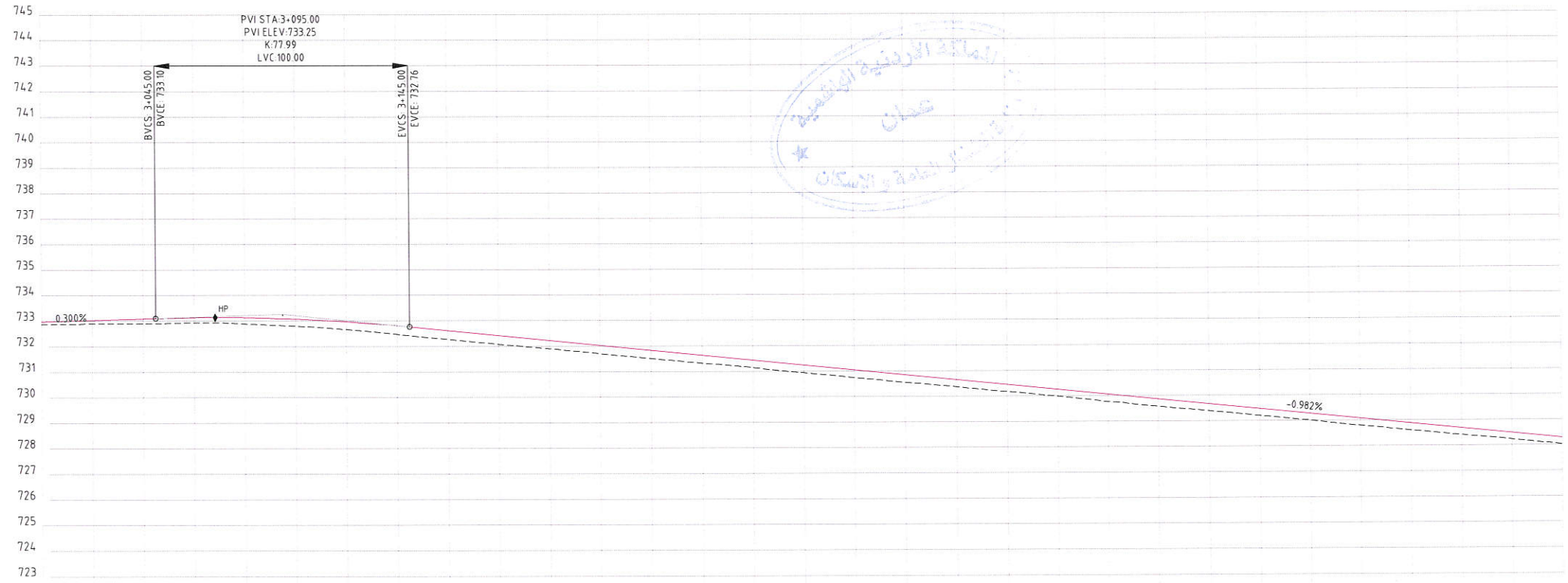
Design Consultant:  
**MOSTAQBAL**  
MUSTAQBAL ENGINEERING & CONSULTING J.S.C.  
Tel: 00962 6 5923602, Fax: 00962 6 5923601  
P.O.Box: 2084 Amman, Postal Code: 11621 Jordan  
http://www.mostaqbal.jo



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  - LP LOW POINT
  - HP HIGH POINT
  - PI POINT OF INTERSECTION
  - L LENGTH
  - VCL VERTICAL CURVE LENGTH
  - R RADIUS
  - PC START OF CURVE POINT
  - PT END OF CURVE POINT
  - MID MIDDLE OF CURVE POINT



DATUM 722.000m

PROPOSED ROAD LEVEL	732.965	733.025	733.085	733.100	733.130	733.135	733.126	733.089	733.071	732.964	732.806	732.759	732.611	732.415	732.218	732.022	731.825	731.629	731.433	731.236	731.040	730.843	730.647	730.450	729.977	730.254	729.766	730.057	729.567	729.861	729.388	729.665	729.193	729.468	729.000	729.272	728.789	729.075	728.596	728.879	728.406	728.682	728.221	728.486	728.025	728.289											
EXISTING GROUND LEVEL	732.851	732.890	732.890	732.927	732.886	732.791	733.071	732.659	732.964	732.468	732.806	732.759	732.261	732.065	732.415	731.891	732.218	731.693	732.022	731.499	731.825	731.315	731.629	731.139	731.433	730.938	731.236	730.737	731.040	730.542	730.843	730.362	730.647	730.161	730.450	729.977	730.254	729.766	730.057	729.567	729.861	729.388	729.665	729.193	729.468	728.989	729.272	728.789	729.075	728.596	728.879	728.406	728.682	728.221	728.486	728.025	728.289
VERTICAL ALIGNMENT	0.300%		VCL = 100.000										-0.982%																																												
HORIZONTAL ALIGNMENT	L = 1162.044																																																								
CHAINAGE	3+000.000	3+020.000	3+040.000	3+060.000	3+080.000	3+100.000	3+120.000	3+140.000	3+160.000	3+180.000	3+200.000	3+220.000	3+240.000	3+260.000	3+280.000	3+300.000	3+320.000	3+340.000	3+360.000	3+380.000	3+400.000	3+420.000	3+440.000	3+460.000	3+480.000	3+500.000	3+520.000	3+540.000	3+560.000	3+580.000	3+600.000																										

CONTINUED CARGO ROAD PROFILE

06	STAGE 04	-	JUNE 2021
05	STAGE 04	-	MAY 2021
04	REVISED STAGE 03	-	MAY 2021
03	REVISED STAGE 03	-	APRIL 2021
02	STAGE 03	-	MARCH 2021
01	STAGE 02	-	FEB 2021
00	STAGE 01	-	JAN 2021

Rev. / Revision History / Approved by: d8hm/yyyy

PROJECT NAME:  
**Rehabilitation of Pavement Layers for Cargo Road - Al Qastal**

SHEET TITLE:  
**ROAD PLANS & PROFILES**  
STA. 3+000 TO 3+600 SHEET 06 OF 13

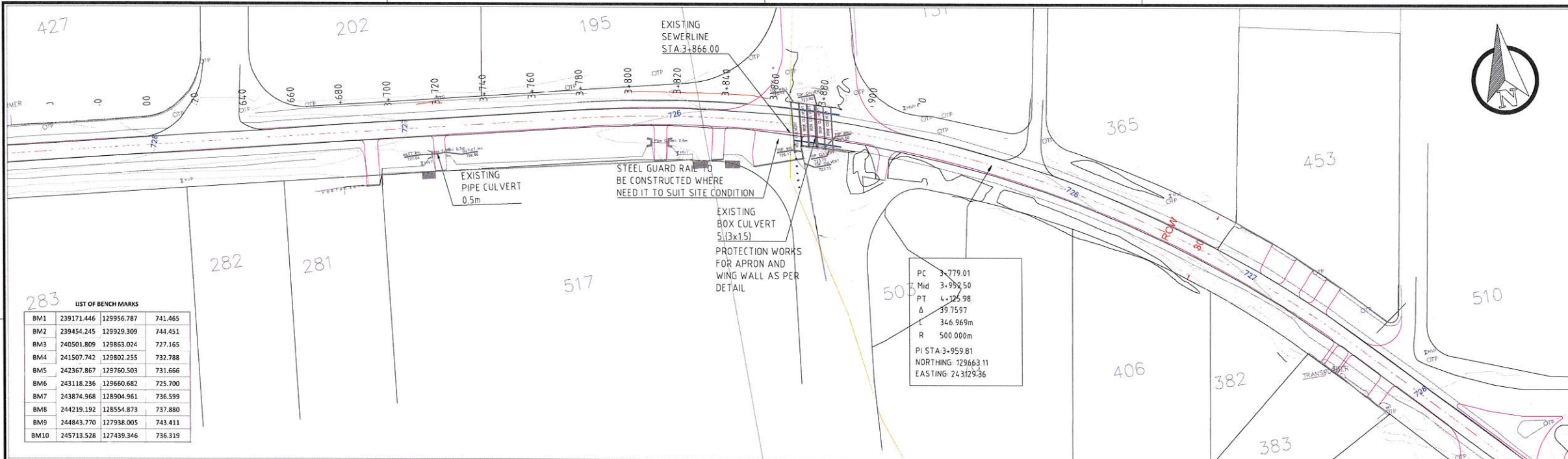
PROJECT MANAGER	HOUR ALI AL	LOT NO.	-
DESIGNED BY	INFRA TEAM	BASIN NO.	-
DRAWN BY	INFRA TEAM	DATE	JUNE 2021
CHECKED BY	NA.	STAGE	STAGE 4
APPROVED BY	FADWA ABULGHADA	SHEET SIZE	A1
DISCIPLINE	INFRA.	SCALE	1:1000

1 UNIT = 10mm WHEN PRINTED AT A4 SHEET SIZE

PROJECT NO	ZONE	BUILDING	SHEET NO.
PD-1156	-	-	RD-08

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Handwritten signature: *Jerall*



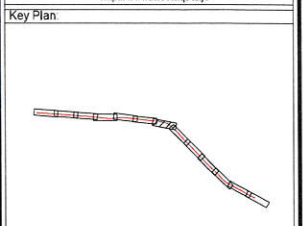
**283 LIST OF BENCH MARKS**

BM1	239171.446	129956.787	741.465
BM2	239454.245	129929.309	744.451
BM3	240501.809	129863.024	727.165
BM4	241507.742	129802.255	732.788
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BM7	243874.868	128904.961	736.599
BM8	244219.192	128554.873	737.880
BM9	244843.770	127938.005	743.411
BM10	245713.528	127439.346	736.319

PC 3+779.01  
 Mid 3+932.50  
 PT 4+125.98  
 Δ 59.7597  
 L 346.969m  
 R 500.000m  
 PI STA 3+959.81  
 NORTHING 129663.11  
 EASTING 243129.36

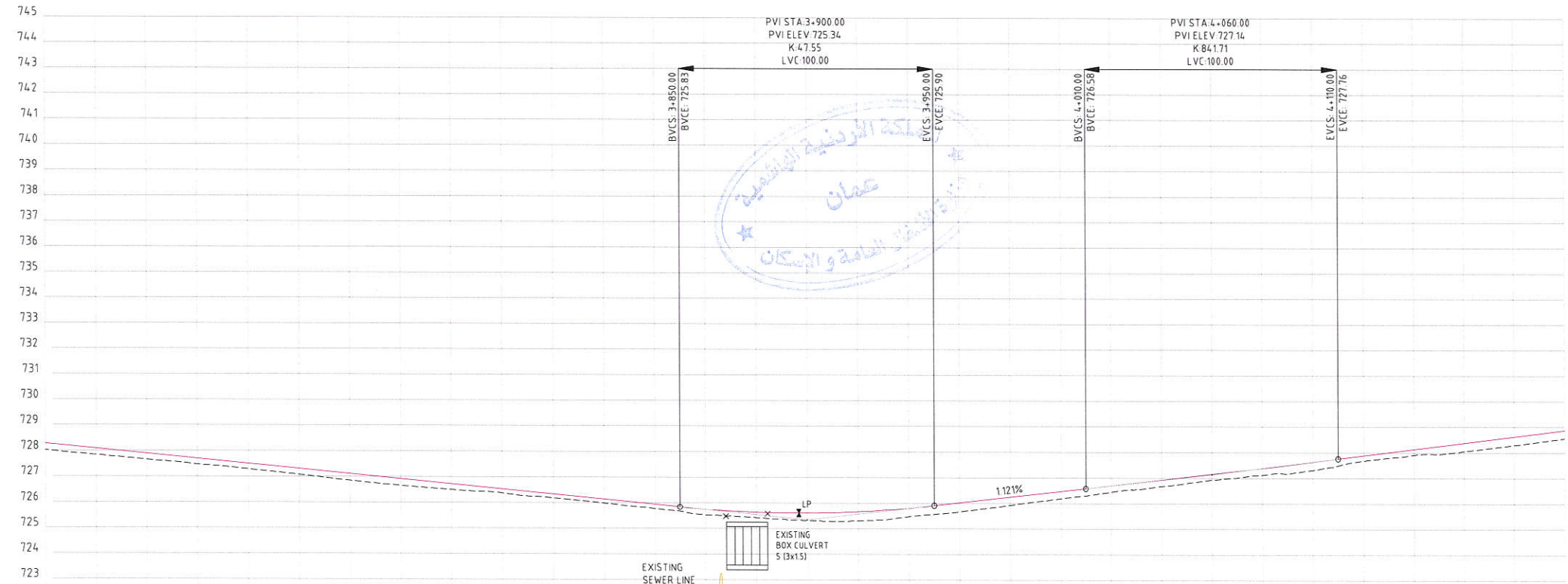
Client:  
 THE HASHEMITE KINGDOM OF JORDAN  
 Ministry of Public Works & Housing

Design Consultant:  
**MOSTAQBAL**  
 CONSULTING AND ENGINEERING  
 Tel: 00962 6 5923602, Fax: 00962 6 5923601  
 P.O.Box 2084 Amman, Postal Code: 11821 Jordan  
 http://www.mostaqbal.jo



NOTES:  
 - ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE INDICATED  
 - CONTRACTOR TO SUBMIT DETAILED DRAWING FOR TIE IN WITH SECONDARY ROAD FOR ENGINEER APPROVAL.

- LEGEND
- PLAN
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  - STAKEOUT/DAYLIGHT
  - EXISTING ASPHALT EDGE
  - EXISTING CULVERT
  - SHOULDER LINE
  - PROPOSED CULVERT
  - PROPOSED DITCH
  - PROPOSED U DITCH
  - EDGE OF PAVEMENT
  - RIGID PAVEMENT
  - FLEXIBLE PAVEMENT
- PROFILE
- NATURAL GROUND LINE
  - PROPOSED DESIGN LINE
  - EXISTING RAILWAY
  - LP LOW POINT
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  - MID MIDDLE OF CURVE POINT



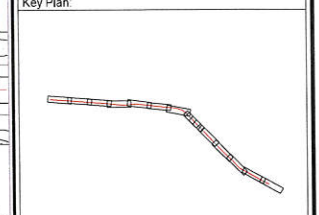
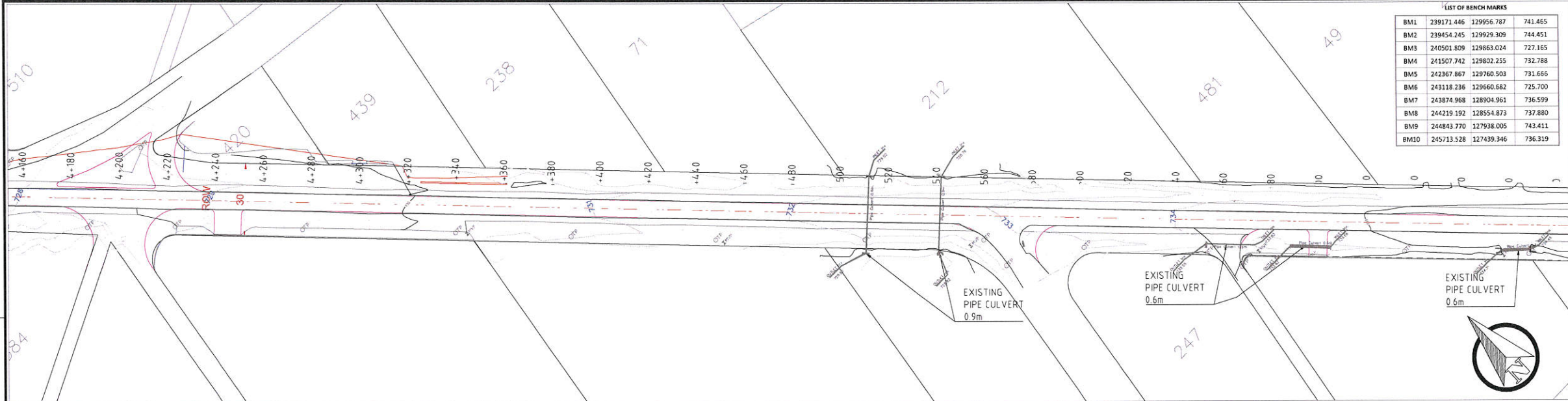
DATUM 722.000m	
PROPOSED ROAD LEVEL	728.289 728.093 727.897 727.700 727.504 727.307 727.111 726.914 726.718 726.521 726.325 726.129 725.932 725.734 725.536 725.338 725.141 724.944 724.746 724.548 724.351 724.154 723.956 723.759 723.562 723.364 723.167 722.970 722.772 722.575 722.377 722.180 721.982 721.785 721.587 721.390 721.192 720.995 720.797 720.600 720.402 720.205 720.007 719.810 719.612 719.415 719.217 719.020 718.822 718.625 718.427 718.230 718.032 717.835 717.637 717.440 717.242 717.045 716.847 716.650 716.452 716.255 716.057 715.860 715.662 715.465 715.267 715.070 714.872 714.675 714.477 714.280 714.082 713.885 713.687 713.490 713.292 713.095 712.897 712.700 712.502 712.305 712.107 711.910 711.712 711.515 711.317 711.120 710.922 710.725 710.527 710.330 710.132 709.935 709.737 709.540 709.342 709.145 708.947 708.750 708.552 708.355 708.157 707.960 707.762 707.565 707.367 707.170 706.972 706.775 706.577 706.380 706.182 705.985 705.787 705.590 705.392 705.195 704.997 704.800 704.602 704.405 704.207 704.010 703.812 703.615 703.417 703.220 703.022 702.825 702.627 702.430 702.232 702.035 701.837 701.640 701.442 701.245 701.047 700.850 700.652 700.455 700.257 700.060 699.862 699.665 699.467 699.270 699.072 698.875 698.677 698.480 698.282 698.085 697.887 697.690 697.492 697.295 697.097 696.900 696.702 696.505 696.307 696.110 695.912 695.715 695.517 695.320 695.122 694.925 694.727 694.530 694.332 694.135 693.937 693.740 693.542 693.345 693.147 692.950 692.752 692.555 692.357 692.160 691.962 691.765 691.567 691.370 691.172 690.975 690.777 690.580 690.382 690.185 689.987 689.790 689.592 689.395 689.197 689.000 688.802 688.605 688.407 688.210 688.012 687.815 687.617 687.420 687.222 687.025 686.827 686.630 686.432 686.235 686.037 685.840 685.642 685.445 685.247 685.050 684.852 684.655 684.457 684.260 684.062 683.865 683.667 683.470 683.272 683.075 682.877 682.680 682.482 682.285 682.087 681.890 681.692 681.495 681.297 681.100 680.902 680.705 680.507 680.310 680.112 679.915 679.717 679.520 679.322 679.125 678.927 678.730 678.532 678.335 678.137 677.940 677.742 677.545 677.347 677.150 676.952 676.755 676.557 676.360 676.162 675.965 675.767 675.570 675.372 675.175 674.977 674.780 674.582 674.385 674.187 673.990 673.792 673.595 673.397 673.200 673.002 672.805 672.607 672.410 672.212 672.015 671.817 671.620 671.422 671.225 671.027 670.830 670.632 670.435 670.237 670.040 669.842 669.645 669.447 669.250 669.052 668.855 668.657 668.460 668.262 668.065 667.867 667.670 667.472 667.275 667.077 666.880 666.682 666.485 666.287 666.090 665.892 665.695 665.497 665.300 665.102 664.905 664.707 664.510 664.312 664.115 663.917 663.720 663.522 663.325 663.127 662.930 662.732 662.535 662.337 662.140 661.942 661.745 661.547 661.350 661.152 660.955 660.757 660.560 660.362 660.165 659.967 659.770 659.572 659.375 659.177 658.980 658.782 658.585 658.387 658.190 657.992 657.795 657.597 657.400 657.202 657.005 656.807 656.610 656.412 656.215 656.017 655.820 655.622 655.425 655.227 655.030 654.832 654.635 654.437 654.240 654.042 653.845 653.647 653.450 653.252 653.055 652.857 652.660 652.462 652.265 652.067 651.870 651.672 651.475 651.277 651.080 650.882 650.685 650.487 650.290 650.092 649.895 649.697 649.500 649.302 649.105 648.907 648.710 648.512 648.315 648.117 647.920 647.722 647.525 647.327 647.130 646.932 646.735 646.537 646.340 646.142 645.945 645.747 645.550 645.352 645.155 644.957 644.760 644.562 644.365 644.167 643.970 643.772 643.575 643.377 643.180 642.982 642.785 642.587 642.390 642.192 641.995 641.797 641.600 641.402 641.205 641.007 640.810 640.612 640.415 640.217 640.020 639.822 639.625 639.427 639.230 639.032 638.835 638.637 638.440 638.242 638.045 637.847 637.650 637.452 637.255 637.057 636.860 636.662 636.465 636.267 636.070 635.872 635.675 635.477 635.280 635.082 634.885 634.687 634.490 634.292 634.095 633.897 633.700 633.502 633.305 633.107 632.910 632.712 632.515 632.317 632.120 631.922 631.725 631.527 631.330 631.132 630.935 630.737 630.540 630.342 630.145 629.947 629.750 629.552 629.355 629.157 628.960 628.762 628.565 628.367 628.170 627.972 627.775 627.577 627.380 627.182 626.985 626.787 626.590 626.392 626.195 625.997 625.800 625.602 625.405 625.207 625.010 624.812 624.615 624.417 624.220 624.022 623.825 623.627 623.430 623.232 623.035 622.837 622.640 622.442 622.245 622.047 621.850 621.652 621.455 621.257 621.060 620.862 620.665 620.467 620.270 620.072 619.875 619.677 619.480 619.282 619.085 618.887 618.690 618.492 618.295 618.097 617.900 617.702 617.505 617.307 617.110 616.912 616.715 616.517 616.320 616.122 615.925 615.727 615.530 615.332 615.135 614.937 614.740 614.542 614.345 614.147 613.950 613.752 613.555 613.357 613.160 612.962 612.765 612.567 612.370 612.172 611.975 611.777 611.580 611.382 611.185 610.987 610.790 610.592 610.395 610.197 610.000 609.802 609.605 609.407 609.210 609.012 608.815 608.617 608.420 608.222 608.025 607.827 607.630 607.432 607.235 607.037 606.840 606.642 606.445 606.247 606.050 605.852 605.655 605.457 605.260 605.062 604.865 604.667 604.470 604.272 604.075 603.877 603.680 603.482 603.285 603.087 602.890 602.692 602.495 602.297 602.100 601.902 601.705 601.507 601.310 601.112 600.915 600.717 600.520 600.322 600.125 599.927 599.730 599.532 599.335 599.137 598.940 598.742 598.545 598.347 598.150 597.952 597.755 597.557 597.360 597.162 596.965 596.767 596.570 596.372 596.175 595.977 595.780 595.582 595.385 595.187 594.990 594.792 594.595 594.397 594.200 594.002 593.805 593.607 593.410 593.212 593.015 592.817 592.620 592.422 592.225 592.027 591.830 591.632 591.435 591.237 591.040 590.842 590.645 590.447 590.250 590.052 589.855 589.657 589.460 589.262 589.065 588.867 588.670 588.472 588.275 588.077 587.880 587.682 587.485 587.287 587.090 586.892 586.695 586.497 586.300 586.102 585.905 585.707 585.510 585.312 585.115 584.917 584.720 584.522 584.325 584.127 583.930 583.732 583.535 583.337 583.140 582.942 582.745 582.547 582.350 582.152 581.955 581.757 581.560 581.362 581.165 580.967 580.770 580.572 580.375 580.177 579.980 579.782 579.585 579.387 579.190 578.992 578.795 578.597 578.400 578.202 578.005 577.807 577.610 577.412 577.215 577.017 576.820 576.622 576.425 576.227 576.030 575.832 575.635 575.437 575.240 575.042 574.845 574.647 574.450 574.252 574.055 573.857 573.660 573.462 573.265 573.067 572.870 572.672 572.475 572.277 572.080 571.882 571.685 571.487 571.290 571.092 570.895 570.697 570.500 570.302 570.105 569.907 569.710 569.512 569.315 569.117 568.920 568.722 568.525 568.327 568.130 567.932 567.735 567.537 567.340 567.142 566.945 566.747 566.550 566.352 566.155 565.957 565.760 565.562 565.365 565.167 564.970 564.772 564.575 564.377 564.180 563.982 563.785 563.587 563.390 563.192 562.995 562.797 562.600 562.402 562.205 562.007 561.810 561.612 561.415 561.217 561.020 560.822 560.625 560.427 560.230 560.032 559.835 559.637 559.440 559.242 559.045 558.847 558.650 558.452 558.255 558.057 557.860 557.662 557.465 557.267 557.070 556.872 556.675 556.477 556.280 556.082 555.885 555.687 555.490 555.292 555.095 554.897 554.700 554.502 554.305 554.107 553.910 553.712 553.515 553.317 553.120 552.922 552.725 552.527 552.330 552.132 551.935 551.737 551.540 551.342 551.145 550.947 550.750 550.552 550.355 550.157 549.960 549.762 549.565 549.367 549.170 548.972 548.775 548.577 548.380 548.182 547.985 547.787 547.590 547.392 547.195 546.997 546.800 546.602 546.405 546.207 546.010 545.812 545.615 545.417 545.220 545.022 544.825 544.627 544.430 544.232 544.035 543.837 543.640 543.442 543.245 543.047 542.850 542.652 542.455 542.257 542.060 541.862 541.665 541.467 541.270 541.072 540.875 540.677 540.480 540.282 540.085 539.887 539.690 539.492 539.295 539.097 538.900 538.702 538.505 538.307 538.110 537.912 537.715 537.517 537.320 537.122 536.925 536.727 536.530 536.332 536.135 535.937 535.740 535.542 535.345 535.147 534.950 534.752 534.555 534.357 534.160 533.962 533.765 533.567 533.370 533.172 532.975 532.777 532.580 532.382 532.185 531.987 531.790 531.592 531.395 531.197 531.000 530.802 530.605 530.407 530.210 530.012 529.815 529.617 529.420 529.222 529.025 528.827 528.630 528.432 528.235 528.037 527.840 527.642 527.445 527.247 527.050 526.852 526.655 526.457 526.260 526.062 525.865 525.667 525.470 525.272 525.075 524.877 524.680 524.482 524.285 524.087 523.890 523.692 523.495 523.297 523.100 522.902 522.705 522.507 522.310 522.112 521.915 521.717 521.520 521.322 521.125 520.927 520.730 520.532 520.335 520.137 519.940 519.742 519.545 519.347 519.150 518.952 518.755 518.557 518.360 518.162 517.965 517.767 517.570 517.372 517.175 516.977 516.780 516.582 516.385 516.187 515.990 515.792 515.595 515.397 515.200 515.002 514.805 514.607 514.410 514.212 514.015 513.817 513.620 513.422 513.225 513.027 512.830 512.632 512.435 512.237 512.040 511.842 511.645 511.447 511.250 511.052 510.855 510.657 510.460 510.262 510.065 509.867 509.670 509.472 509.275 509.077 508.880 508.682 508.485 508.287 508.090 507.892 507.695 507.497 507.300 507.102 506.905 506.707 506.510 506.312 506.115 505.917 505.720 505.522 505.325 505.127 504.930 504.732 504.535 504.337 504.140 503.942 503.745 503.547 503.350 503.152 502.955 502.757 502.560 502.362 502.165 501.967 501.770 501.572 501.375 501.177 500.980 500.782 500.585 500.387 500.190 499.992 499.795 499.597 499.400 499.202 499.005 498.807 498.610 498.412 498.215 498.017 497.820 497.622 497.425 497.227 497.030 496.832 496.635 496.437 496.240 496.042 495.845 495.647 495.450 495.252 495.055 494.857 494.660 494.462 494.265 494.067 493.870 493.672 493.475 493.277 493.080 492.882 492.685 492.487 492.290 492.092 491.895 491.697 491.500 491.302 491.105 490.907 490.710 490.512 490.315 490.117 489.920 489.722 489.525 489.327 489.130 488.932 488.735 488.537 488.340 488.142 487.945 487.747 487.550 487.352 487.155 486.957 486.760 486.562 486.365 486.167 485.970 485.772 485.575 485.377 485.180 484.982 484.785 484.587 484.390 484.192 483.995 483.797 483.600 483.402 483.205 483.007 482.810 482.612 482.415 482.217 482.020 481.822 481.625 481.427 481.230 481.032 480.835 480.637 480.440 480.242 480.045 479.847 479.650 479.452 479.255 479.057 478.860 478.662 478.465 478.267 478.070 477.872 477.675 477.477 477.280 477.082 476.885 476.687 476.490 476.292 476.095 475.897 475.700 475.502 475.305 475.107 474.910 474.712 474.515 474.317 474.120 473.922 473.725 473.527 473.330 473.132 472.935 472.737 472.540 472.342 472.145 471.947 471.750 471.552 471.355 471.157 470.960 470.762 470.565 470.367 470.170 469.972 469.775 469.577 469.380 469.182 468.985 468.787 468.590 468.392 468.195 467.997 467.800 467.602 467.405 467.207 467.010 466.812 466.615 466.417 466.220 466.022 465.82

LIST OF BENCH MARKS

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Client  
THE HASHEMITE KINGDOM OF JORDAN  
Ministry of Public Works & Housing

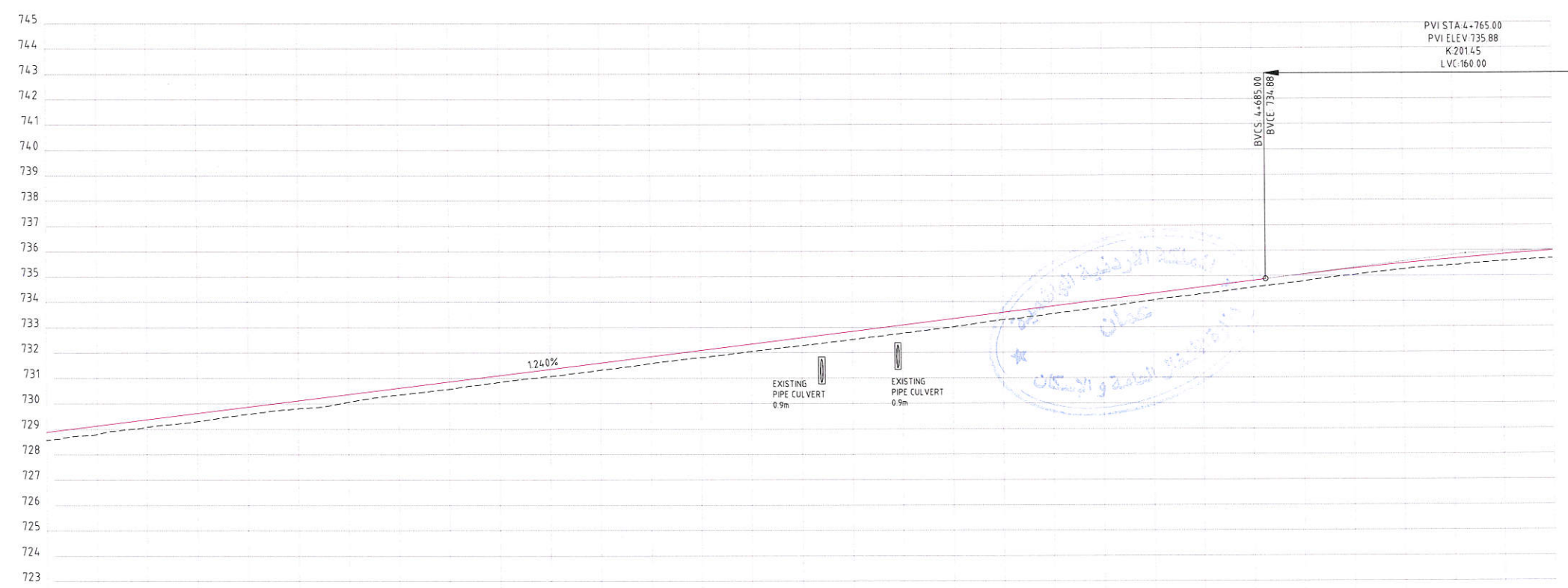
Design Consultant  
**MOSTAQBAL**  
ENGINEERING AND CONSULTING COMPANY  
Tel: 09962 6 5923602, Fax: 09962 6 5923601  
P.O.Box: 2084 Amman, Postal Code: 11821 Jordan  
http://www.mostaqbal.jo



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  - R RADIUS
  - PC START OF CURVE POINT
  - PT END OF CURVE POINT
  - MID MIDDLE OF CURVE POINT



DATUM 722 000m

PROPOSED ROAD LEVEL	728.871	729.119	729.367	729.615	729.863	730.111	730.359	730.607	730.855	731.103	731.351	731.598	731.846	732.094	732.342	732.590	732.838	733.086	733.334	733.582	733.830	734.078	734.326	734.573	734.821	734.883	735.064	735.287	735.490	735.673	735.716	735.837	735.981																		
EXISTING GROUND LEVEL	728.557	728.787	729.072	729.289	729.573	729.794	730.056	730.348	730.566	730.842	731.067	731.317	731.575	731.805	732.094	732.048	732.342	732.274	732.590	732.512	732.838	732.762	733.086	733.006	733.334	733.286	733.582	733.523	733.830	733.782	734.078	734.055	734.326	734.296	734.573	734.544	734.821	734.883	734.781	735.064	735.079	735.287	735.256	735.490	735.411	735.673	735.716	735.562	735.837	735.675	735.981
VERTICAL ALIGNMENT	124.0%																																																		
HORIZONTAL ALIGNMENT	L= 1129.076																																																		
CHAINAGE	4+200.000	4+220.000	4+240.000	4+260.000	4+280.000	4+300.000	4+320.000	4+340.000	4+360.000	4+380.000	4+400.000	4+420.000	4+440.000	4+460.000	4+480.000	4+500.000	4+520.000	4+540.000	4+560.000	4+580.000	4+600.000	4+620.000	4+640.000	4+660.000	4+680.000	4+700.000	4+720.000	4+740.000	4+760.000	4+780.000	4+800.000																				

CONTINUED CARGO ROAD PROFILE

04	STAGE 04	-	JUNE 2021
05	STAGE 04	-	MAY 2021
04	REVISED STAGE 03	-	MAY 2021
03	REVISED STAGE 03	-	APRIL 2021
02	STAGE 03	-	MARCH 2021
01	STAGE 02	-	FEB 2021
00	STAGE 01	-	JAN 2021

PROJECT NAME: Rehabilitation of Pavement Layers for Cargo Road - Al Castal

SHEET TITLE: ROAD PLANS & PROFILES  
STA. 4+200 TO 4+800 (SHEET 08 OF 13)

PROJECT MANAGER	INFRAL	LOT NO.	-
DESIGNED BY	INFRAL TEAM	BASIN NO.	-
DRAWN BY	INFRAL TEAM	DATE	JUNE 2021
CHECKED BY	NA.	STAGE	STAGE 4
APPROVED BY	FADWA ABU-SHADA	SHEET SIZE	A1
DISCIPLINE	INFRAL	SCALE	1:1000

1 UNIT = 10 mm WHEN PRINTED AT A4 SHEET SIZE

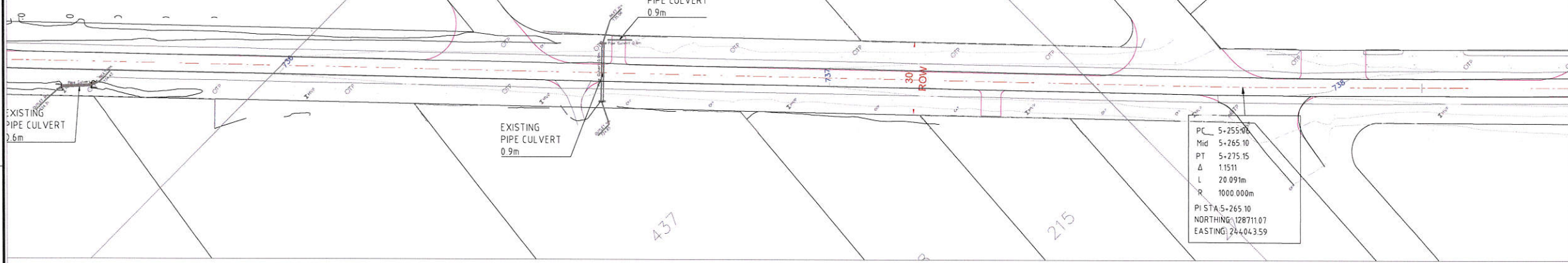
PROJECT NO	ZONE	BUILDING	SHEET NO.
PD-1156	-	-	RD-10

الرجوع



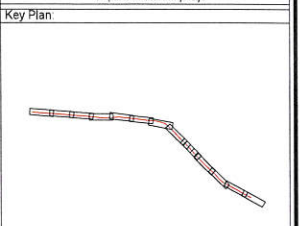
LIST OF BENCH MARKS

BM1	239171.446	129956.787	741.465
BM2	239454.245	129929.309	744.451
BM3	240501.809	129863.024	727.165
BM4	241507.742	129802.255	732.788
BM5	242367.867	129760.503	731.666
BM6	243118.236	129660.682	725.700
BM7	243874.968	128904.961	736.599
BM8	244219.192	128554.873	737.880
BM9	244843.770	127938.005	743.411
BM10	245713.528	127439.346	736.319



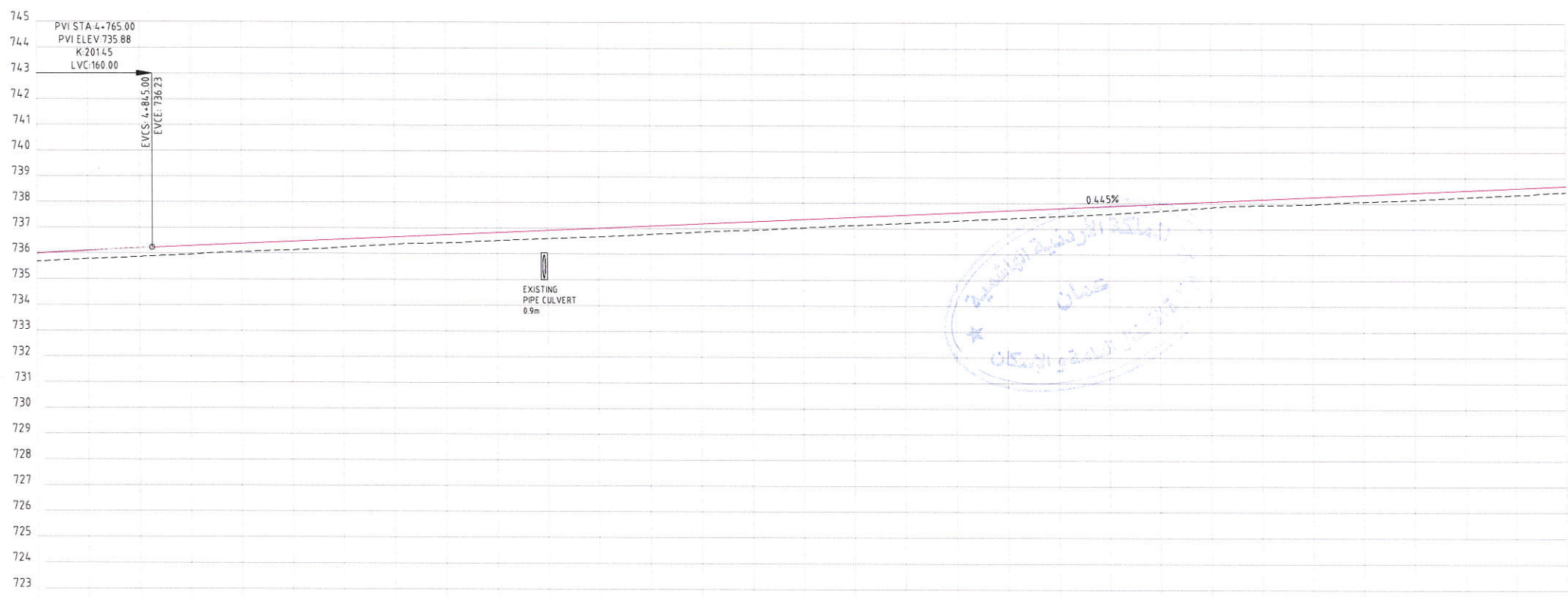
Client:  
 THE HASHEMITE KINGDOM OF JORDAN  
 Ministry of Public Works & Housing

Design Consultant:  
**MOSTAQBAL**  
 ENGINEERING AND ARCHITECTURE  
 Tel: 00962 6 5923602, Fax: 00962 6 5923601  
 P.O. Box 2084 Amman, Postal Code: 11621 Jordan  
 http://www.mostaqbal.jo



NOTES:  
 - ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE INDICATED  
 - CONTRACTOR TO SUBMIT DETAILED DRAWING FOR TIE IN WITH SECONDARY ROAD FOR ENGINEER APPROVAL.

- LEGEND:
- PLAN
- EXISTING ROAD CENTERLINE
  - STAKEOUT/DAYLIGHT
  - EXISTING ASPHALT EDGE
  - EXISTING CULVERT
  - SHOULDER LINE
  - PROPOSED CULVERT
  - PROPOSED U DITCH
  - PROPOSED U DITCH
  - EDGE OF PAVEMENT
  - RIGID PAVEMENT
  - FLEXIBLE PAVEMENT
- PROFILE
- NATURAL GROUND LINE
  - PROPOSED DESIGN LINE
  - EXISTING RAILWAY
  - LP LOW POINT
  - HP HIGH POINT
  - PI POINT OF INTERSECTION
  - Δ DELTA
  - L LENGTH
  - VCL VERTICAL CURVE LENGTH
  - R RADIUS
  - PC START OF CURVE POINT
  - PT END OF CURVE POINT
  - MID MIDDLE OF CURVE POINT



DATUM 722.000m

PROPOSED ROAD LEVEL	735.981	736.04	736.208	736.298	736.387	736.476	736.565	736.654	736.743	736.832	736.922	737.011	737.100	737.189	737.278	737.367	737.456	737.545	737.634	737.723	737.812	737.901	737.990	738.079	738.168	738.258	738.347	738.436	738.525	738.614	738.703	
EXISTING GROUND LEVEL	735.075	735.779	736.065	735.962	736.058	736.139	736.245	736.359	736.417	736.514	736.597	736.669	736.767	736.871	736.939	737.040	737.132	737.219	737.309	737.404	737.497	737.590	737.709	737.852	737.935	737.976	738.071	738.147	738.246	738.333	738.445	
VERTICAL ALIGNMENT	VCL = 160.000		0.445%																													
HORIZONTAL ALIGNMENT	R= 1000.000 L= 257.814																															
CHAINAGE	4+800.000	4+820.000	4+840.000	4+860.000	4+880.000	4+900.000	4+920.000	4+940.000	4+960.000	4+980.000	5+000.000	5+020.000	5+040.000	5+060.000	5+080.000	5+100.000	5+120.000	5+140.000	5+160.000	5+180.000	5+200.000	5+220.000	5+240.000	5+260.000	5+280.000	5+284.285	5+300.000	5+320.000	5+340.000	5+360.000	5+380.000	5+400.000

06	STAGE 04	-	JUNE 2021
05	STAGE 04	-	MAY 2021
04	REVISED STAGE 03	-	MAY 2021
03	REVISED STAGE 03	-	APRIL 2021
02	STAGE 03	-	MARCH 2021
01	STAGE 02	-	FEB 2021
00	STAGE 01	-	JAN 2021

Rev: Revision History Approved by: d88m/ymzz

PROJECT NAME:  
 Rehabilitation of Pavement Layers for Cargo Road - Al Qastal

SHEET TITLE:  
 ROAD PLANS & PROFILES  
 STA. 4+800 TO 5+400 SHEET 09 OF 13

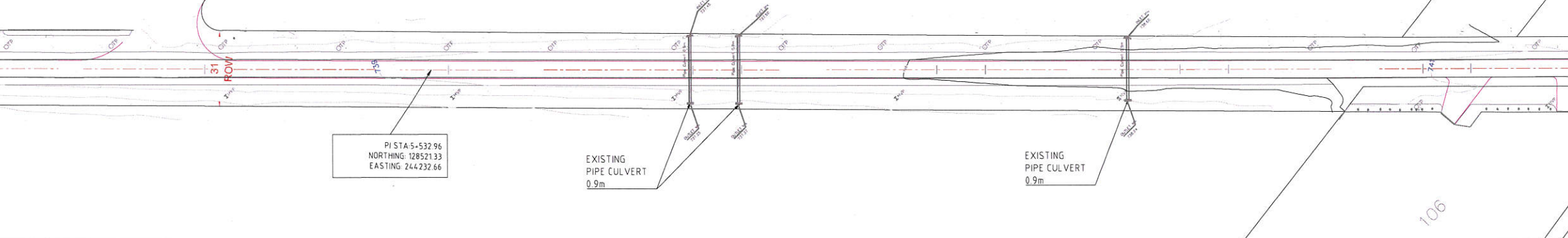
PROJECT MANAGER	HOUR ALLE	LOT NO.	-
DESIGNED BY	INFRA TEAM	BASRN NO.	-
DRAWN BY	INFRA TEAM	DATE	JUNE 2021
CHECKED BY	N.A.	STAGE	STAGE 4
APPROVED BY	FADWA ABU-GHADA	SHEET SIZE	A1
DISCIPLINE	INFRA	SCALE	1:1000

PROJECT NO	ZONE	BUILDING	SHEET NO.
PD-1156	-	-	RD-11

المرحلة 4

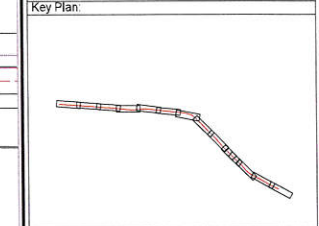
LIST OF BENCH MARKS

BM1	239171.446	129956.787	741.465
BM2	239454.245	129929.309	744.451
BM3	240501.809	129863.024	727.165
BM4	241507.742	129802.255	732.788
BM5	242367.867	129760.503	731.666
BM6	243118.236	129660.682	725.700
BM7	243874.968	128904.961	736.599
BM8	244219.192	128554.873	737.880
BM9	244843.770	127938.005	743.411
BM10	245713.528	127439.346	736.319



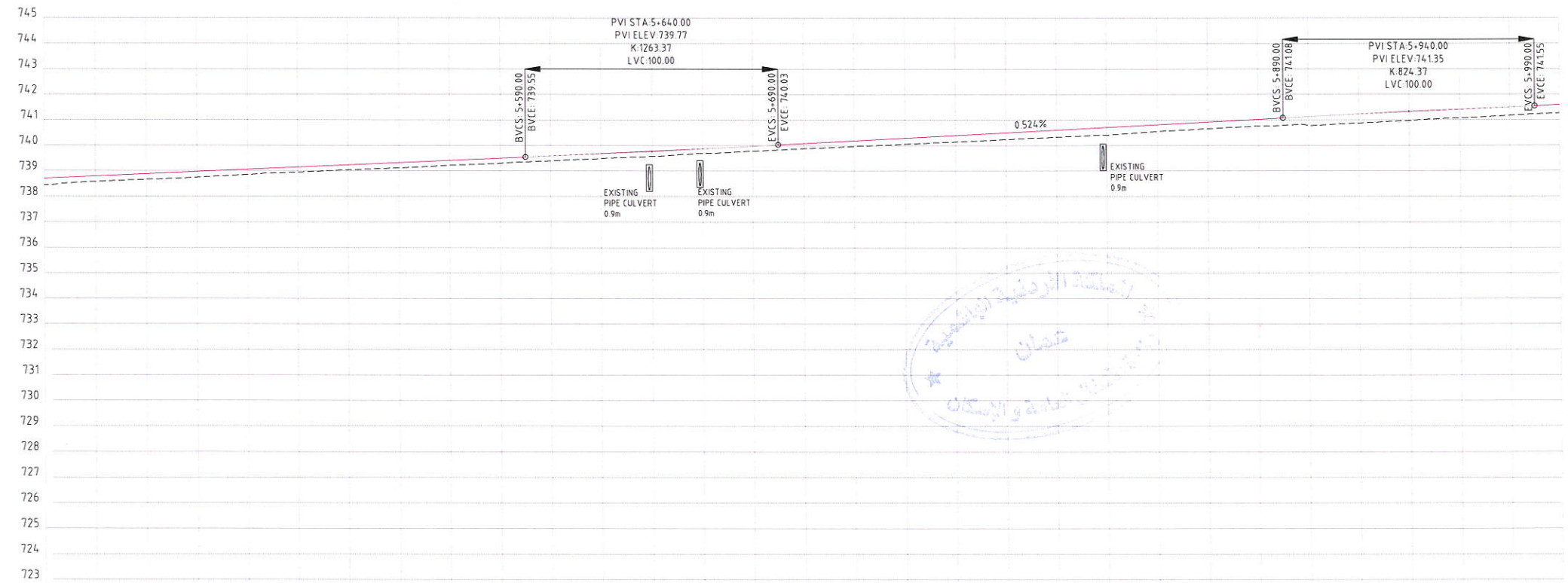
Client:  
THE HASHEMITE KINGDOM OF JORDAN  
Ministry of Public Works & Housing

Design Consultant:  
**MOSTAQBAL**  
ENGINEERING AND CONSULTING COMPANY  
Tel: 00962 6 5923602, Fax: 00962 6 5923601  
P.O.Box: 2084 Amman, Postal Code: 11821 Jordan  
http://www.mostaqbal.jo



NOTES:  
- ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE INDICATED  
- CONTRACTOR TO SUBMIT DETAILED DRAWING FOR TIE IN WITH SECONDARY ROAD FOR ENGINEER APPROVAL.

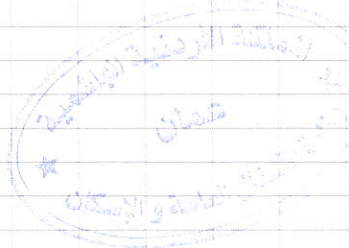
- LEGEND:
- EXISTING ROAD CENTERLINE
  - STAKEOUT/DAYLIGHT
  - EXISTING ASPHALT EDGE
  - EXISTING CULVERT
  - SHOULDER LINE
  - PROPOSED CULVERT
  - PROPOSED DITCH
  - PROPOSED U DITCH
  - EDGE OF PAVEMENT
  - RIGID PAVEMENT
  - FLEXIBLE PAVEMENT
- PROFILE:
- NATURAL GROUND LINE
  - PROPOSED DESIGN LINE
  - EXISTING RAILWAY
  - LP LOW POINT
  - HP HIGH POINT
  - PI POINT OF INTERSECTION
  - L DELTA
  - L LENGTH
  - VCL VERTICAL CURVE LENGTH
  - R RADIUS
  - PC START OF CURVE POINT
  - PT END OF CURVE POINT
  - MID MIDDLE OF CURVE POINT



DATUM 722.000m

PROPOSED ROAD LEVEL	738.703	738.792	738.881	738.970	739.059	739.148	739.237	739.326	739.415	739.505	739.549	739.594	739.686	739.782	739.880	739.982	740.034	740.086	740.191	740.296	740.401	740.506	740.611	740.716	740.821	740.926	741.030	741.083	741.135	741.235	741.330	741.420	741.506	741.547	741.587				
EXISTING GROUND LEVEL	738.445	738.576	738.658	738.745	738.855	738.949	739.036	739.120	739.205	739.290	739.380	739.470	739.560	739.650	739.740	739.830	740.034	740.086	739.970	740.052	740.143	740.237	740.328	740.413	740.544	740.652	740.751	740.791	740.875	740.970	741.074	741.172	741.265	741.357	741.450				
VERTICAL ALIGNMENT	VCL = 100.000																			0.524%										VCL = 100.000									0.403%
HORIZONTAL ALIGNMENT	L = 257.814																			L = 530.667																			
CHAINAGE	5+400.000	5+420.000	5+440.000	5+460.000	5+480.000	5+500.000	5+520.000	5+540.000	5+560.000	5+580.000	5+600.000	5+620.000	5+640.000	5+660.000	5+680.000	5+700.000	5+720.000	5+740.000	5+760.000	5+780.000	5+800.000	5+820.000	5+840.000	5+860.000	5+880.000	5+900.000	5+920.000	5+940.000	5+960.000	5+980.000	6+000.000								

CONTINUED CARGO ROAD PROFILE



04	STAGE 04	-	JUNE 2021
05	STAGE 04	-	MAY 2021
04	REVISED STAGE 03	-	MAY 2021
03	REVISED STAGE 03	-	APRIL 2021
02	STAGE 03	-	MARCH 2021
01	STAGE 02	-	FEB 2021
00	STAGE 01	-	JAN 2021

PROJECT NAME:  
Rehabilitation of Pavement Layers for Cargo Road - Al Qastal

SHEET TITLE:  
ROAD PLANS & PROFILES  
STA. 5+400 TO 6+000 SHEET 10 OF 13

PROJECT MANAGER	HOUR ALK.	LOT NO.	-
DESIGNED BY	INFRA TEAM	BASIN NO.	-
DRAWN BY	INFRA TEAM	DATE	JUNE 2021
CHECKED BY	N.A.	STAGE	STAGE 4
APPROVED BY	FADWA ABU-LOHADA	SHEET SIZE	A1
DISCIPLINE	INFRA	SCALE	1:500

PROJECT NO.	PD-1156	ZONE	-	BUILDING	-	SHEET NO.	RS-12
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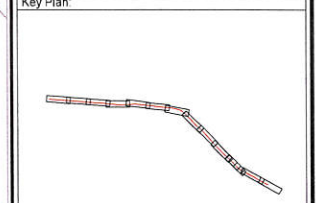
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**LIST OF BENCH MARKS**

BM1	239171.446	129956.787	741.465
BM2	239454.245	129929.309	744.451
BM3	240501.809	129863.024	727.165
BM4	241507.742	129802.255	732.788
BM5	242367.867	129760.503	731.666
BM6	243118.236	129660.682	725.700
BM7	243874.968	128904.961	736.599
BM8	244219.192	128554.873	737.880
BM9	244843.770	127938.005	743.411
BM10	245713.528	127439.346	736.319

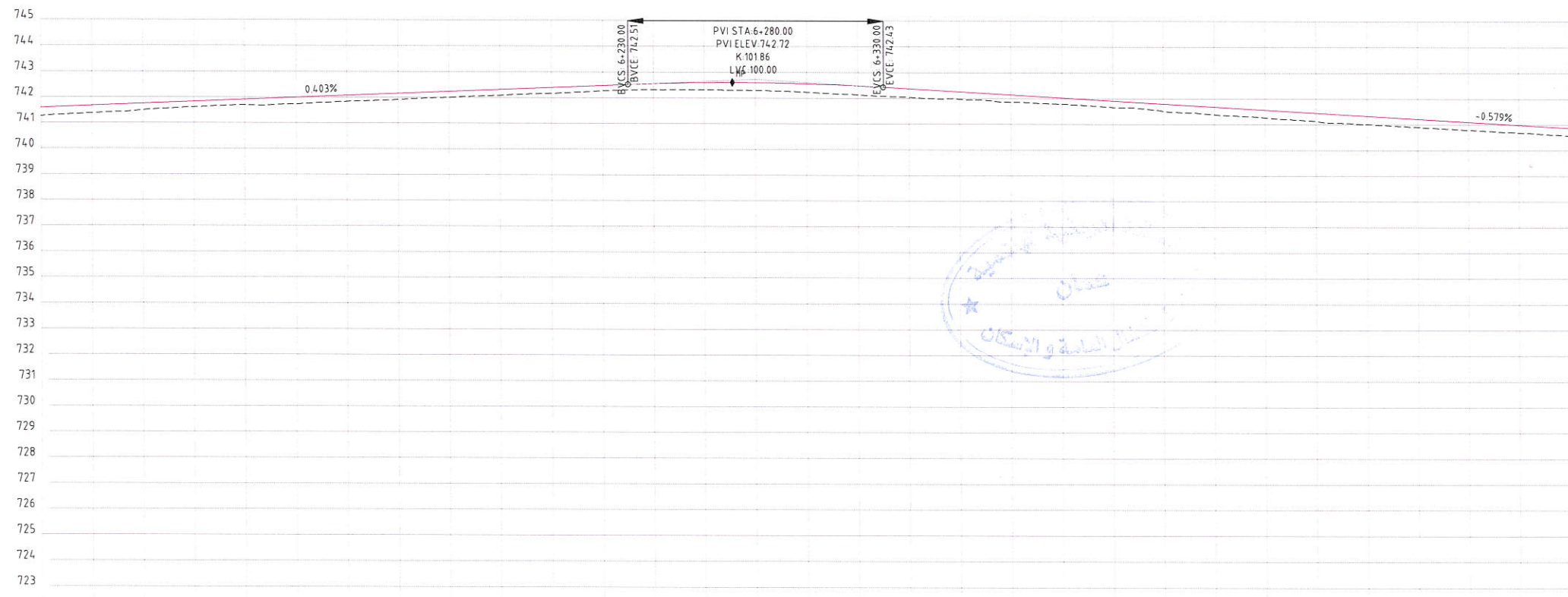
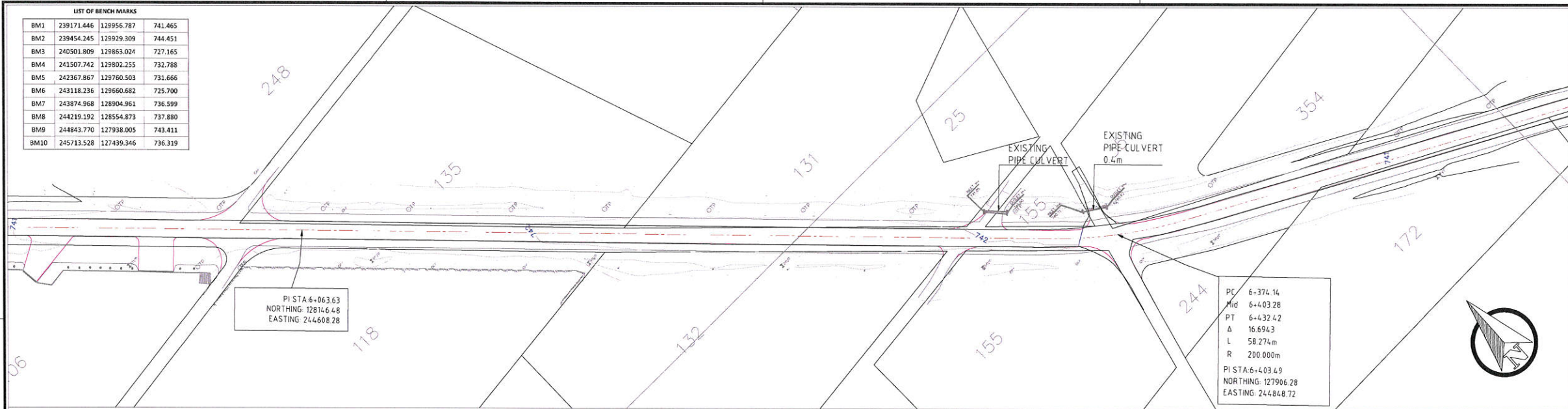
Client:  
THE HASHEMITE KINGDOM OF JORDAN  
Ministry of Public Works & Housing

Design Consultant:  
**MOSTAQBAL**  
MUSTAQBAL ENGINEERING AND CONSULTING COMPANY  
Tel: 00962 6 5923502 Fax: 00962 6 5923601  
P.O. Box 2084 Amman, Postal Code: 11821 Jordan  
http://www.mostaqbal.jo



NOTES:  
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- CONTRACTOR TO SUBMIT DETAILED DRAWING FOR TIE IN WITH SECONDARY ROAD FOR ENGINEER APPROVAL.

- LEGEND:
- PLAN
- EXISTING ROAD CENTERLINE
  - STAKEOUT/DAYLIGHT
  - EXISTING ASPHALT EDGE
  - EXISTING CULVERT
  - SHOULDER LINE
  - PROPOSED CULVERT
  - PROPOSED U DITCH
  - EDGE OF PAVEMENT
  - RIGID PAVEMENT
  - FLEXIBLE PAVEMENT
- PROFILE
- NATURAL GROUND LINE
  - PROPOSED DESIGN LINE
  - EXISTING RAILWAY
  - LP LOW POINT
  - HP HIGH POINT
  - PI POINT OF INTERSECTION
  - Δ DELTA
  - L LENGTH
  - VCL VERTICAL CURVE LENGTH
  - R RADIUS
  - PC START OF CURVE POINT
  - PT END OF CURVE POINT
  - MD MIDDLE OF CURVE POINT



DATUM 722.000m

PROPOSED ROAD LEVEL	741.587	741.668	741.748	741.829	741.910	741.990	742.071	742.152	742.232	742.313	742.393	742.474	742.514	742.550	742.591	742.597	742.593	742.556	742.480	742.427	742.369	742.253	742.137	742.022	741.906	741.790	741.675	741.559	741.443	741.328	741.212	741.096	740.980	740.865
EXISTING GROUND LEVEL	741.265	741.370	741.492	741.610	741.690	741.732	741.829	741.907	742.000	742.084	742.165	742.267	742.314	742.368	742.313	742.287	742.287	742.227	742.127	742.036	741.962	741.857	741.786	741.650	741.513	741.373	741.259	741.123	741.005	740.897	740.790	740.685	740.568	
VERTICAL ALIGNMENT	0.403%										VCL = 100.000										-0.579%													
HORIZONTAL ALIGNMENT	L = 310.513										R = 200.000																							
CHAINAGE	6+000.000	6+020.000	6+040.000	6+060.000	6+080.000	6+100.000	6+120.000	6+140.000	6+160.000	6+180.000	6+200.000	6+220.000	6+240.000	6+260.000	6+280.000	6+300.000	6+320.000	6+340.000	6+360.000	6+380.000	6+400.000	6+420.000	6+440.000	6+460.000	6+480.000	6+500.000	6+520.000	6+540.000	6+560.000	6+580.000	6+600.000			

CONTINUED CARGO ROAD PROFILE

PROJECT NAME:  
**Rehabilitation of Pavement Layers for Cargo Road - Al Qastal**

SHEET TITLE:  
**ROAD PLANS & PROFILES**  
STA. 6+000 TO 6+600 SHEET 11 OF 13

PROJECT MANAGER	INRA, ASH	LOT NO.	-
DESIGNED BY	INRA, TEAM	BASIN NO.	-
DRAWN BY	INRA, TEAM	DATE	JUNE 2021
CHECKED BY	N.A.	STAGE	STAGE 4
APPROVED BY	FADWA ABU-GHADA	SHEET SIZE	A1
DISCIPLINE	INRA	SCALE	1:1000

1 UNIT = 10mm WHEN PRINTED AT A4 SHEET SIZE

PROJECT NO	ZONE	BUILDING	SHEET NO.
PD-1156	-	-	RD-13

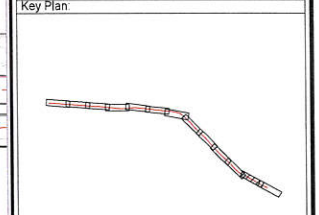
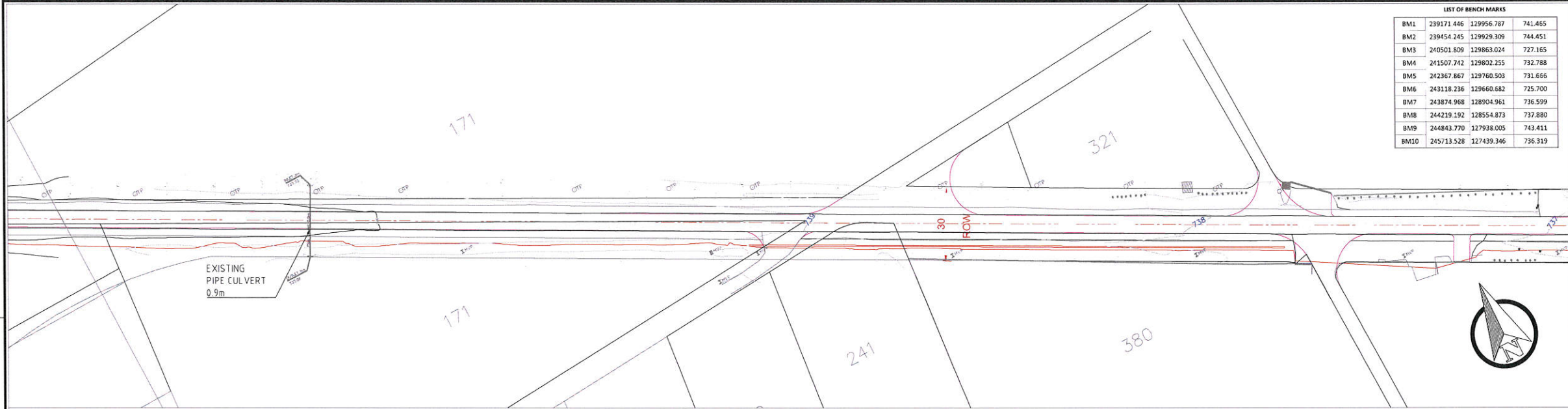
المهندس

LIST OF BENCH MARKS

BM1	239171.446	129956.787	741.465
BM2	239454.245	129929.309	744.451
BM3	240501.809	129863.024	727.165
BM4	241507.742	129802.255	732.788
BM5	242367.867	129760.503	731.656
BM6	243118.236	129660.682	725.700
BM7	243874.968	128904.961	736.599
BM8	244219.192	128554.873	737.880
BM9	244843.770	127938.005	743.411
BM10	245713.528	127439.346	736.319

Client:  
THE HASHEMITE KINGDOM OF JORDAN  
Ministry of Public Works & Housing

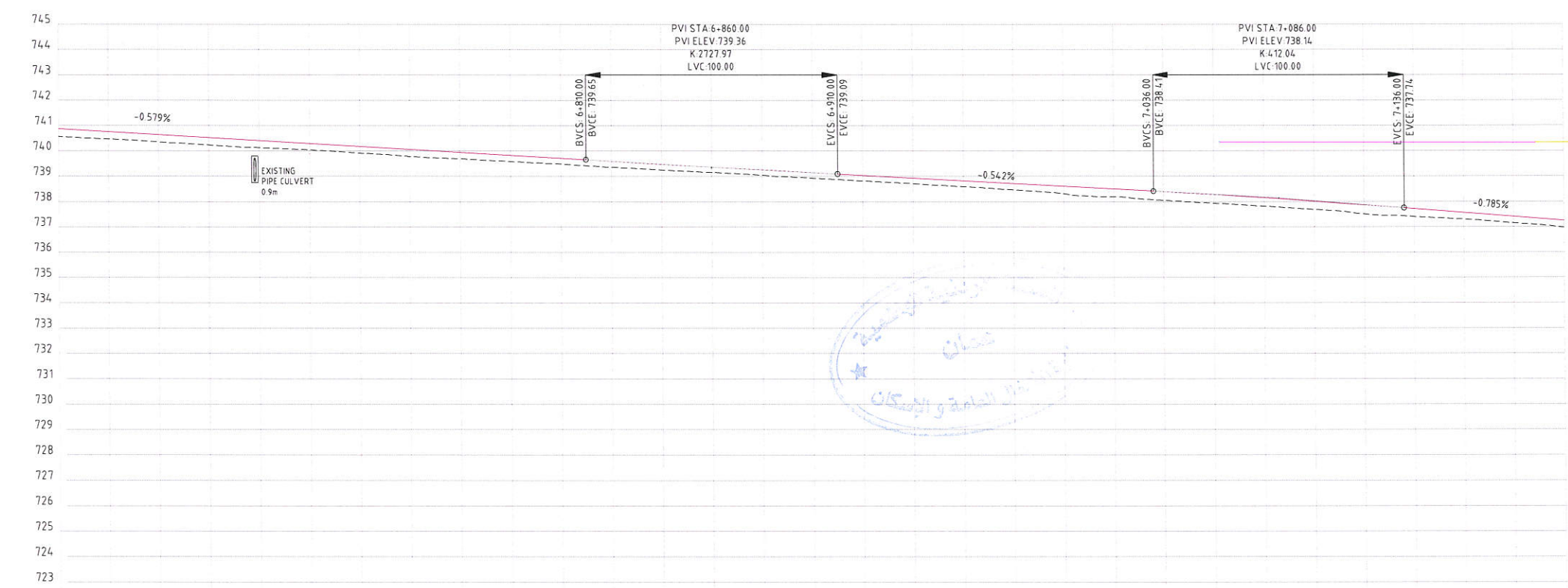
Design Consultant:  
**MOSTAQBAL**  
JORDANIAN ARCHITECTURE AND ENGINEERING CONSULTANTS  
Tel: 00962 6 5923602 Fax: 00962 6 5923601  
P.O. Box 2084 Amman, Postal Code 11821 Jordan  
http://www.mostaqbal.jo



NOTES:

- ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE INDICATED
- CONTRACTOR TO SUBMIT DETAILED DRAWING FOR TIE IN WITH SECONDARY ROAD FOR ENGINEER APPROVAL.

- LEGEND:
- EXISTING ROAD CENTERLINE
  - STAKEOUT/DAYLIGHT
  - EXISTING ASPHALT EDGE
  - EXISTING CULVERT
  - SHOULDER LINE
  - PROPOSED CULVERT
  - PROPOSED DITCH
  - PROPOSED U DITCH
  - EDGE OF PAVEMENT
  - RIGID PAVEMENT
  - FLEXIBLE PAVEMENT



- PROFILE:
- NATURAL GROUND LINE
  - PROPOSED DESIGN LINE
  - EXISTING RAILWAY
  - LP LOW POINT
  - HP HIGH POINT
  - PI POINT OF INTERSECTION
  - Δ DELTA
  - L LENGTH
  - VCL VERTICAL CURVE LENGTH
  - R RADIUS
  - PC START OF CURVE POINT
  - PT END OF CURVE POINT
  - MID MIDDLE OF CURVE POINT

Rev.	Revision History	Approved by	date
06	STAGE 04	-	JUNE 2021
05	STAGE 04	-	MAY 2021
04	REVISED STAGE 03	-	MAY 2021
03	REVISED STAGE 03	-	APRIL 2021
02	STAGE 03	-	MARCH 2021
01	STAGE 02	-	FEB 2021
00	STAGE 01	-	JAN 2021

PROJECT NAME:  
**Rehabilitation of Pavement Layers for Cargo Road - Al Qastal**

SHEET TITLE:  
**ROAD PLANS & PROFILES**  
STA. 6+600 TO 7+200 SHEET 12 OF 13

PROJECT MANAGER	NOUR ALIA	LOT NO.	-
DESIGNED BY	INFRA. TEAM	DATE	JUNE 2021
DRAWN BY	INFRA. TEAM	STAGE	STAGE 4
CHECKED BY	N.A.	SHEET SIZE	A1
APPROVED BY	FADWA ABUGHANDA	SCALE	1:1000
DISCIPLINE	INFRA.		

1 UNIT = 10 mm. WHEN PRINTED AT A4 SHEET SIZE.

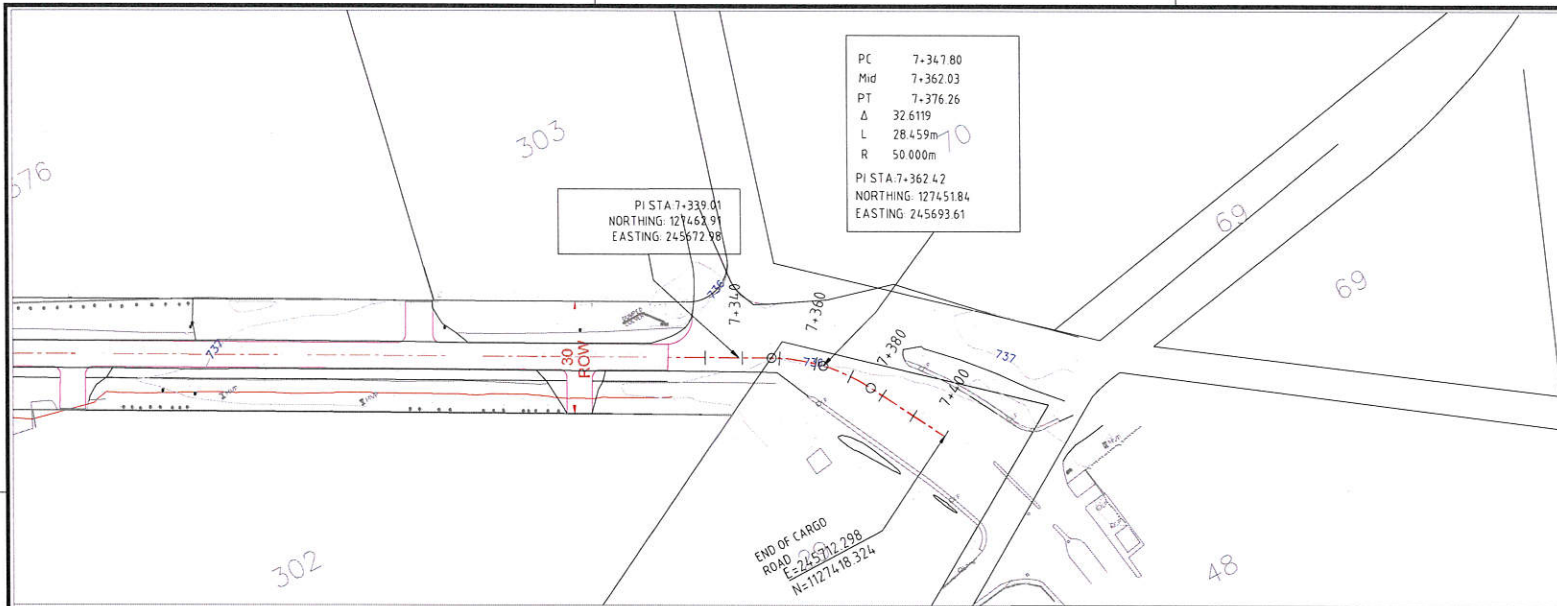
PROJECT NO.	ZONE	BUILDING	SHEET NO.
FD-1156	-	-	RD-14

DATUM 722.000m

PROPOSED ROAD LEVEL	740.885	740.749	740.633	740.518	740.402	740.286	740.170	740.055	739.939	739.823	739.708	739.650	739.592	739.478	739.365	739.254	739.144	739.090	739.035	738.927	738.819	738.710	738.602	738.494	738.407	738.385	738.270	738.165	738.106	738.010	737.866	737.744	737.712	737.555	737.398	737.242														
EXISTING GROUND LEVEL	740.588	740.488	740.353	740.230	740.121	740.041	739.913	739.772	739.685	739.581	739.474	739.650	739.592	739.249	739.151	739.365	739.254	739.925	739.144	739.090	739.035	738.702	738.819	738.461	738.302	738.192	738.047	737.931	737.808	738.145	738.106	737.681	737.502	737.744	737.712	737.286	737.140	736.970												
VERTICAL ALIGNMENT	-0.579%										VCL = 100.000										-0.542%										VCL = 100.000										-0.785%									
HORIZONTAL ALIGNMENT	L = 906.596																																																	
CHAINAGE	6+600.000	6+620.000	6+640.000	6+660.000	6+680.000	6+700.000	6+720.000	6+740.000	6+760.000	6+780.000	6+800.000	6+820.000	6+840.000	6+860.000	6+880.000	6+900.000	6+920.000	6+940.000	6+960.000	6+980.000	7+000.000	7+020.000	7+040.000	7+060.000	7+080.000	7+100.000	7+120.000	7+140.000	7+160.000	7+180.000	7+200.000																			

CONTINUED CARGO ROAD PROFILE

المهندس

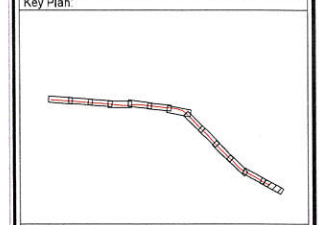


LIST OF BENCH MARKS

BM1	239171.446	129956.787	741.465
BM2	239454.245	129929.309	744.451
BM3	240501.809	129863.024	727.165
BM4	241507.742	129802.255	732.788
BM5	242367.867	129760.503	731.666
BM6	243118.236	129660.682	725.700
BM7	243874.968	128904.961	736.599
BM8	244219.192	128554.873	737.880
BM9	244843.770	127938.005	743.411
BM10	245713.528	127439.346	736.319

Client: THE HASHEMITE KINGDOM OF JORDAN  
Ministry of Public Works & Housing

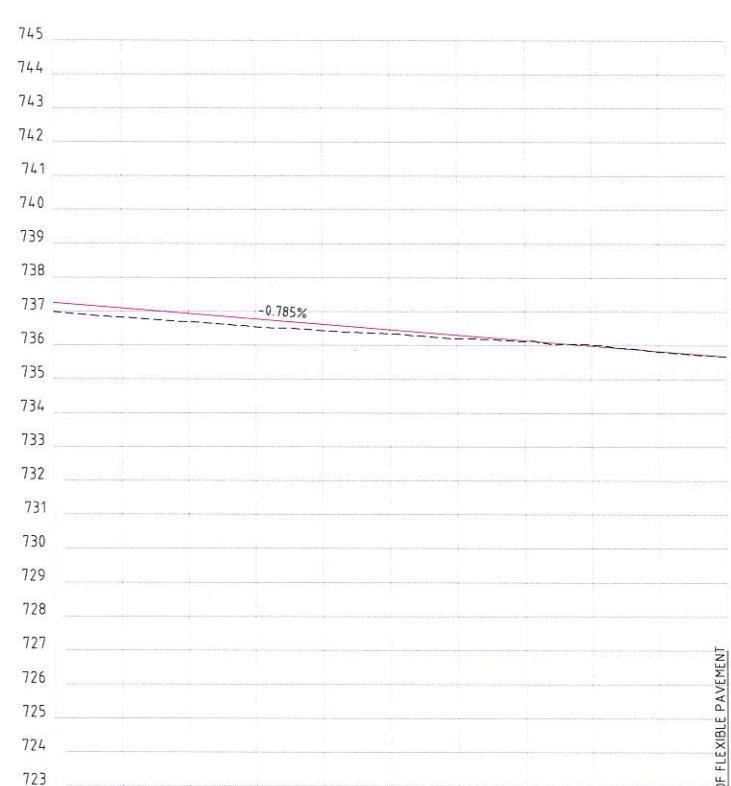
Design Consultant: **MOSTAQBAL**  
JORDAN REG. AN. 1518/AM. XI. U. 0151 (1/2016)  
Tel: 00962 6 5923602 Fax: 00962 6 5923601  
P.O. Box 2084 Amman, Postal Code 11621 Jordan  
http://www.mostaqbal.jo



NOTES:

- ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE INDICATED
- CONTRACTOR TO SUBMIT DETAILED DRAWING FOR TIE IN WITH SECONDARY ROAD FOR ENGINEER APPROVAL.

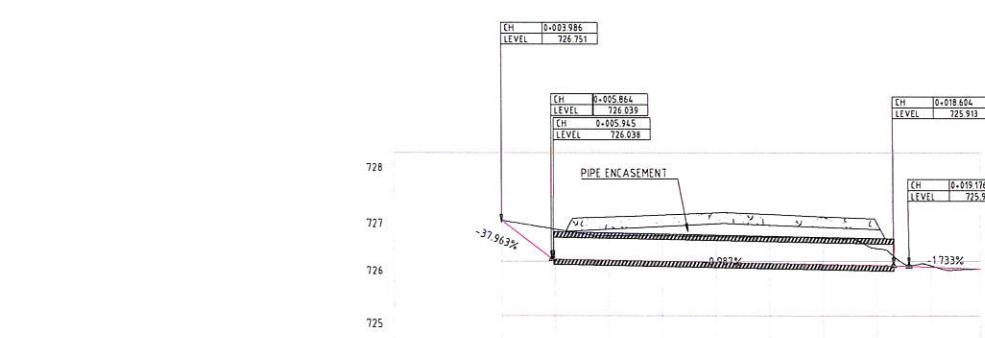
- LEGEND
- PLAN
- EXISTING ROAD CENTERLINE
  - STAKEOUT/DAYLIGHT
  - EXISTING ASPHALT EDGE
  - EXISTING CULVERT
  - SHOULDER LINE
  - PROPOSED CULVERT
  - PROPOSED DITCH
  - PROPOSED U DITCH
  - EDGE OF PAVEMENT
  - RIGID PAVEMENT
  - FLEXIBLE PAVEMENT
- PROFILE
- NATURAL GROUND LINE
  - PROPOSED DESIGN LINE
  - EXISTING RAILWAY
  - LP LOW POINT
  - HP HIGH POINT
  - PI POINT OF INTERSECTION
  - Δ DELTA
  - L LENGTH
  - VCL VERTICAL CURVE LENGTH
  - R RADIUS
  - PC START OF CURVE POINT
  - PT END OF CURVE POINT
  - MID MIDDLE OF CURVE POINT



DATUM 722.000m

PROPOSED ROAD LEVEL	737.742	737.085	736.928	736.771	736.614	736.457	736.300	736.143	735.986	735.829	735.672	
EXISTING GROUND LEVEL	736.970	736.812	736.683	736.537	736.434	736.336	736.199	736.120	736.022	735.809	735.672	
VERTICAL ALIGNMENT	-0.785%											
HORIZONTAL ALIGNMENT	L = 8.784 R = 50.000 L = 23.744											
CHAINAGE	7+200.000	7+220.000	7+240.000	7+260.000	7+280.000	7+283.855	7+300.000	7+320.000	7+340.000	7+360.000	7+380.000	7+400.000

CONTINUED CARGO ROAD PROFILE



DATUM 725.000m

PROPOSED CULVERT LEVEL	726.746	726.037	726.018	725.998	725.978	725.959	725.939	725.919	725.897	725.873	725.861
EXISTING GROUND LEVEL	726.750	726.589	726.467	726.465	726.455	726.445	726.422	726.235	725.921	725.861	725.861
CHAINAGE	0+002.000	0+004.000	0+006.000	0+008.000	0+010.000	0+012.000	0+014.000	0+016.000	0+018.000	0+020.000	

PROPOSED CULVERT Ø500 @ STATION 1+376.76



06	STAGE 04	--	JUNE 2021
05	STAGE 04	--	MAY 2021
04	REVISED STAGE 03	--	MAY 2021
03	REVISED STAGE 03	--	APRIL 2021
02	STAGE 03	--	MARCH 2021
01	STAGE 02	--	FEB 2021
00	STAGE 01	--	JAN 2021

Rev. / Revision History Approved by: dhhm/yyzz

PROJECT NAME: Rehabilitation of Pavement Layers for Cargo Road - Al Qastal

SHEET TITLE: ROAD PLANS & PROFILES  
STA. 7+200 TO 7+400 SHEET 13 OF 13

PROJECT MANAGER	NOUR ALJALAL	LOT NO.	--
DESIGNED BY	RIPRA TEAM	BASEIN NO.	--
DRAWN BY	RIPRA TEAM	DATE	JUNE 2021
CHECKED BY	N.A.	STAGE	STAGE 4
APPROVED BY	FADWA ABU-UMHADA	SHEET SIZE	A1
DISCIPLINE	RIPRA	SCALE	1:1000

1 UNIT = 10mm WHEN PRINTED AT A4 SHEET SIZE

PROJECT NO.	PD-1156	ZONE	--	BUILDING	--	SHEET NO.	RD-15A
-------------	---------	------	----	----------	----	-----------	--------

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Handwritten signature: *W. J. Al-Jalal*

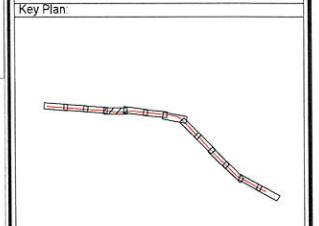
LIST OF BENCH MARKS

BM1	239171.446	129956.787	741.465
BM2	239454.245	129929.309	744.451
BM3	240501.809	129863.024	727.165
BM4	241507.742	129802.255	732.788
BM5	242567.867	129760.503	731.666
BM6	243118.236	129660.682	725.700
BM7	243874.968	128904.961	736.599
BM8	244219.192	128554.873	737.880
BM9	244843.770	127938.005	743.411
BM10	245713.528	127439.346	736.319



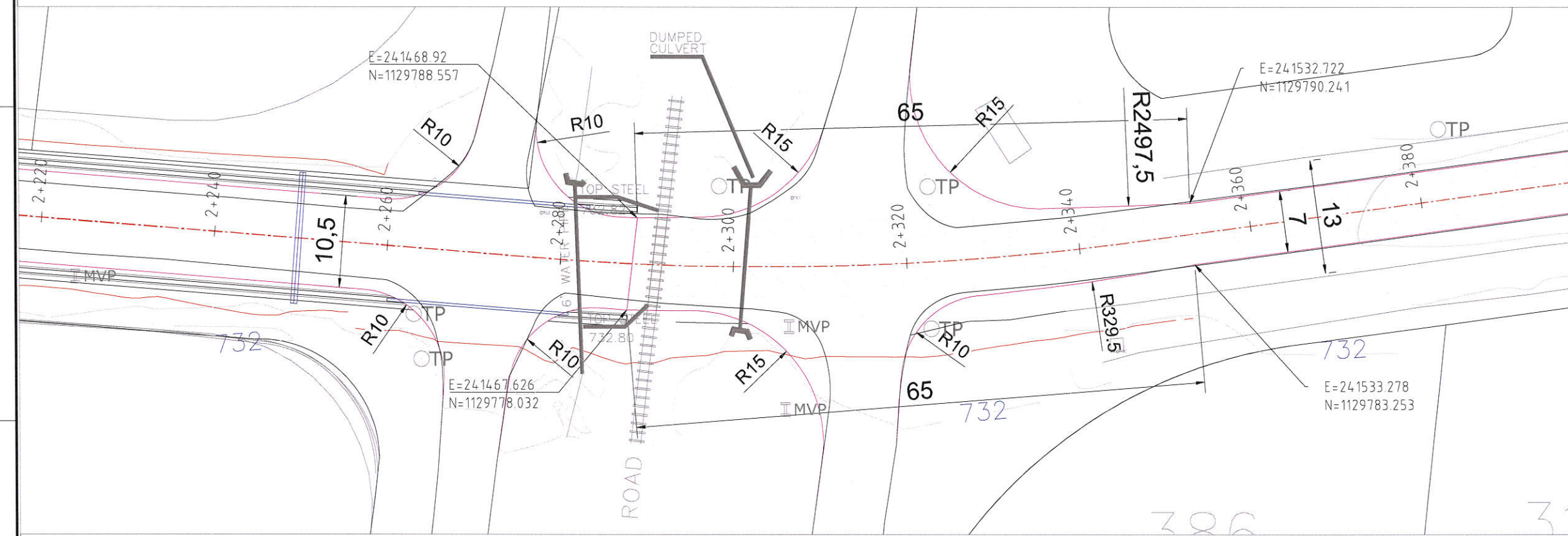
Client:  
THE HASHEMITE KINGDOM OF JORDAN  
Ministry of Public Works & Housing

Design Consultant:  
**MOSTAQBAL**  
ENGINEERING AND CONSULTING COMPANY  
Tel: 00962 6 5923602, Fax: 00962 6 5923601  
P.O.Box: 2084 Amman, Postal Code: 11821 Jordan  
http://www.mostaqbal.jo



NOTES:  
- ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE INDICATED  
- CONTRACTOR TO SUBMIT DETAILED DRAWING FOR TIE IN WITH SECONDARY ROAD FOR ENGINEER APPROVAL

- LEGEND:
- PLAN
- EXISTING ROAD CENTERLINE
  - STAKEOUT/DAYLIGHT
  - EXISTING ASPHALT EDGE
  - EXISTING CULVERT
  - SHOULDER LINE
  - PROPOSED CULVERT
  - PROPOSED DITCH
  - PROPOSED U DITCH
  - EDGE OF PAVEMENT
  - RIGID PAVEMENT
  - FLEXIBLE PAVEMENT
- PROFILE
- NATURAL GROUND LINE
  - PROPOSED DESIGN LINE
  - EXISTING RAILWAY
  - LP LOW POINT
  - HP HIGH POINT
  - PI POINT OF INTERSECTION
  - Δ DELTA
  - L LENGTH
  - VCL VERTICAL CURVE LENGTH
  - R RADIUS
  - PC START OF CURVE POINT
  - PT END OF CURVE POINT
  - MID MIDDLE OF CURVE POINT



Rev.	Revision History	Approved by	dd/mm/yyyy
06	STAGE 04	--	JUNE 2021
05	STAGE 04	--	MAY 2021
04	REVISED STAGE 03	--	MAY 2021
03	REVISED STAGE 03	--	APRIL 2021
02	STAGE 03	--	MARCH 2021
01	STAGE 02	--	FEB 2021
00	STAGE 01	--	JAN 2021

PROJECT NAME:

Rehabilitation of Pavement Layers for Cargo Road - Al Qastal

SHEET TITLE:  
ENLARGEMENT PLAN@ 2+300

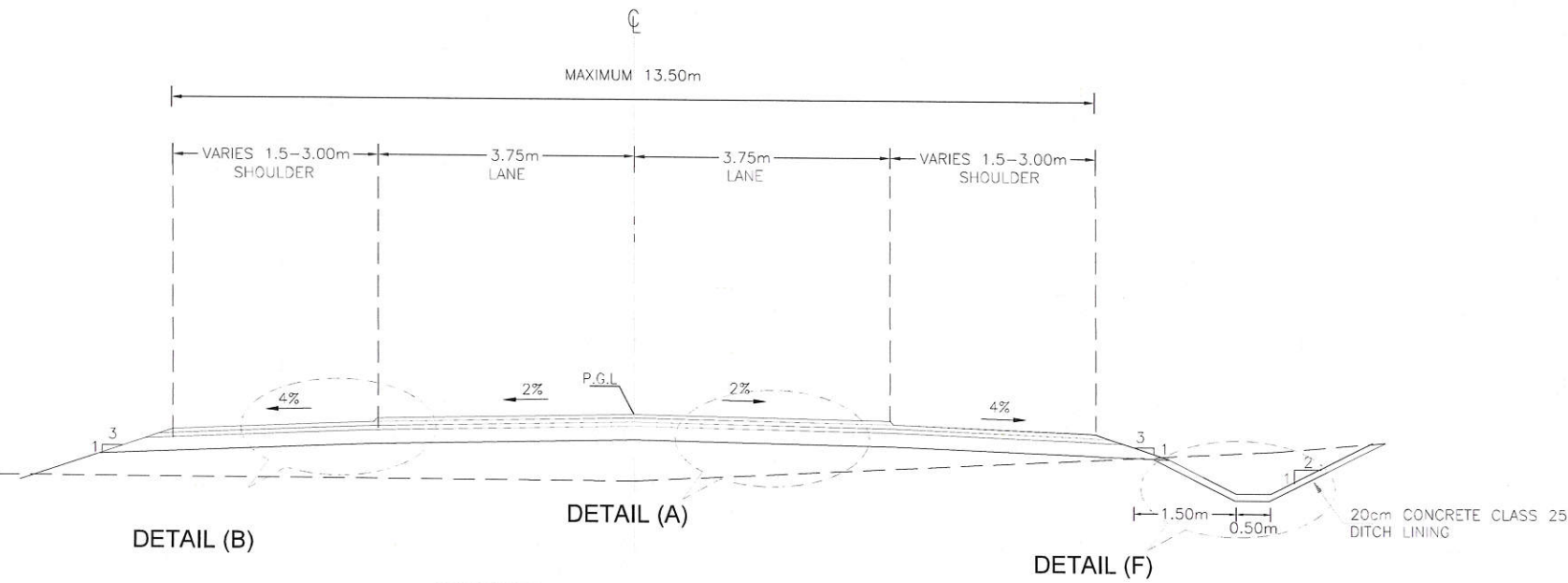
PROJECT MANAGER	NDUR ALL	LOT NO.	--
DESIGNED BY	INFRA TEAM	BASRI NO.	--
DRAWN BY	INFRA TEAM	DATE	JUNE 2021
CHECKED BY	N.A.	STAGE	STAGE 4
APPROVED BY	FADNA ABULGHAMDA	SHEET SIZE	A1
CIRCUIPNE	INFRA	SCALE	1:1000

PROJECT NO	PD-1156	ZONE	--	BUILDING	--	SHEET NO	RD-153
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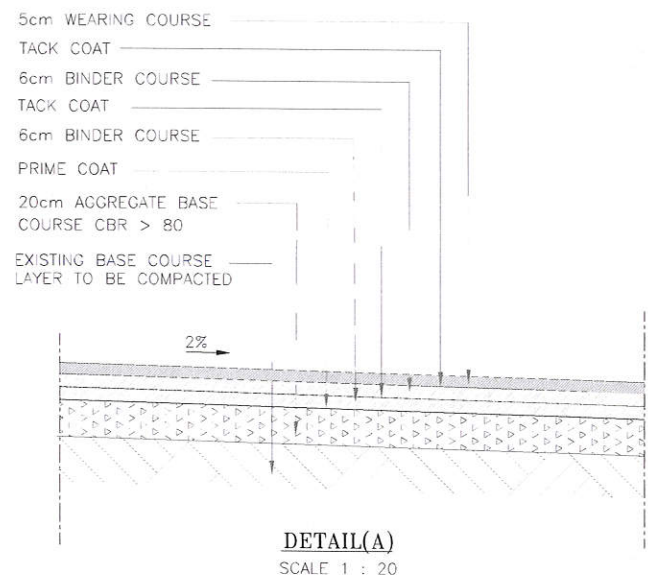
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DITCH LOCATION SCHEDULE

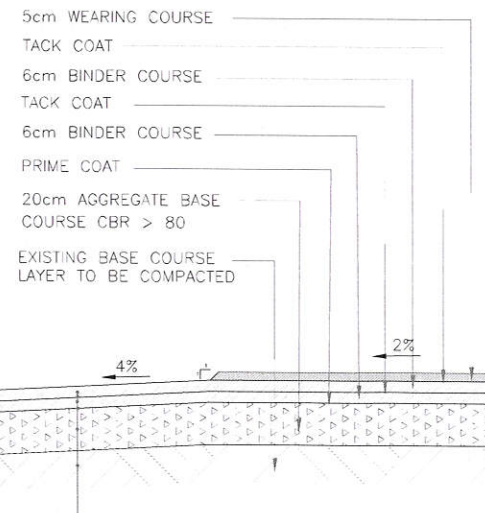
FROM	TO	LENGTH	SIDE
2+337	2+455	118.00	LEFT
2+253	2+292	39.00	RIGHT
2+403	2+413	10.00	RIGHT
2+670	2+675	5.00	LEFT
2+688	2+733	45.00	RIGHT
2+670	2+676	6.00	LEFT
2+690	2+708	18.00	LEFT
2+725	2+750	25.00	LEFT
2+773	2+928	155.00	RIGHT
2+797	2+878	81.00	LEFT
4+320	4+356	36.00	LEFT
4+385	4+469	84.00	LEFT
4+342	4+516	174.00	RIGHT
4+612	4+626	14.00	RIGHT
4+682	4+692	10.00	RIGHT
4+719	4+823	104.00	RIGHT
4+815	4+820	5.00	LEFT
5+010	5+023	13.00	LEFT
5+036	5+063	27.00	LEFT
5+240	5+320	80.00	RIGHT
5+240	5+440	200.00	LEFT
5+447	5+528	81.00	LEFT
5+582	5+621	39.00	LEFT
5+631	5+673	42.00	LEFT
5+705	5+720	15.00	LEFT
5+790	5+814	24.00	LEFT
5+930	5+950	20.00	RIGHT
5+960	6+040	80.00	RIGHT
6+023	6+032	9.00	LEFT
6+185	6+188	3.00	LEFT
6+204	6+208	4.00	LEFT
6+226	6+240	14.00	RIGHT
6+346	6+398	52.00	RIGHT
6+410	6+440	30.00	RIGHT
6+860	7+085	225.00	RIGHT
6+912	7+060	148.00	LEFT



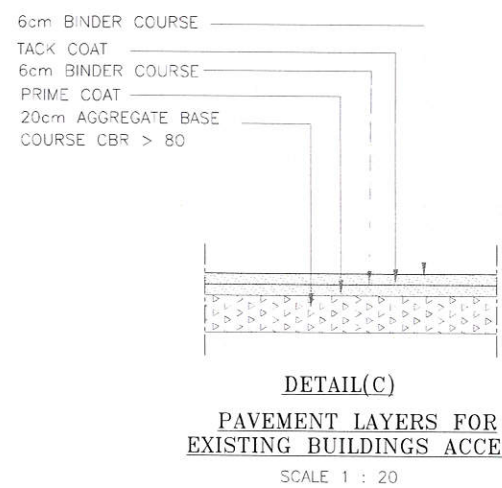
PROPOSED ROAD TYPICAL CROSS SECTION  
FROM STA. 0+000 TO STA. 0+100,  
AND FROM STA. 2+293 TO STA. 7+400  
SCALE 1 : 50



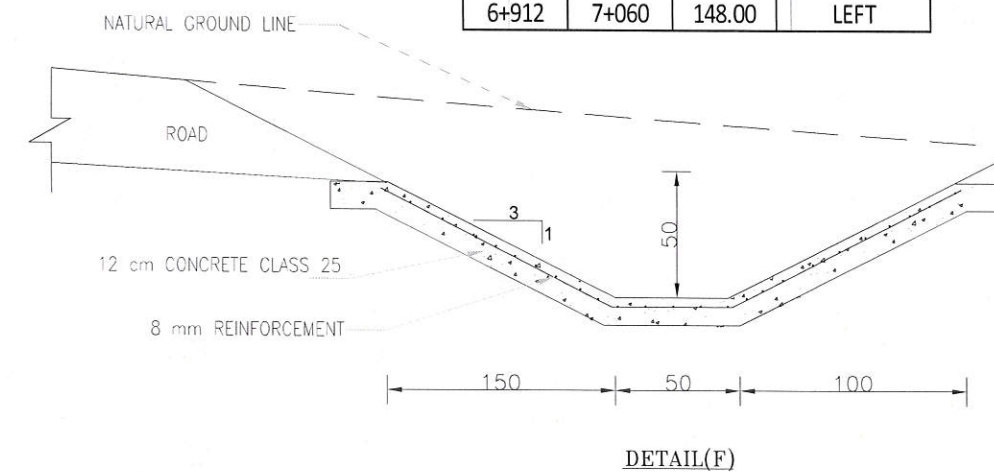
DETAIL(A)  
SCALE 1 : 20



DETAIL(B)  
SCALE 1 : 20



DETAIL(C)  
PAVEMENT LAYERS FOR  
EXISTING BUILDINGS ACCESS  
SCALE 1 : 20



DETAIL(F)

Client: THE HASHEMITE KINGDOM OF JORDAN  
Ministry of Public Works & Housing

Design Consultant: **MOSTAQBAL**  
ENGINEERING AND DEVELOPMENTAL CONSULTANTS (P.S.O.)  
Tel: 00962 6 5923602 Fax: 00962 6 5923601  
P.O.Box: 2084 Amman, Postal Code: 11821 Jordan  
http://www.mostaqbal.jo

Key Plan:

NOTES:  
1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDICATED

Rev.	Revision History	Approved by	DATE
06	STAGE 04		JUNE 2021
05	STAGE 04		MAY 2021
04	REVISED STAGE 03		MAY 2021
03	REVISED STAGE 03		APRIL 2021
02	STAGE 03		MARCH 2021
01	STAGE 02		FEB 2021
00	STAGE 01		JAN 2021

PROJECT NAME: Rehabilitation of Pavement Layers for Cargo Road - Al Qastal

SHEET TITLE: ROAD TYPICAL SECTIONS & DETAILS

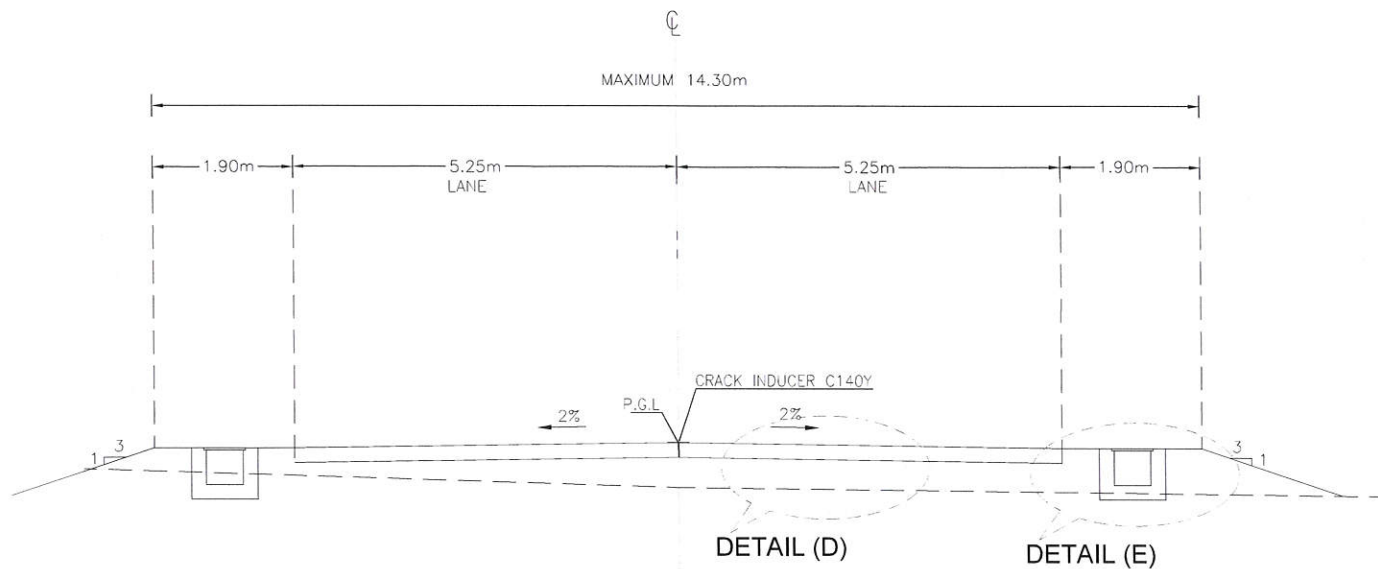
PROJECT MANAGER	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DISCIPLINE	LOT NO.	BASIN NO.	DATE	STAGE	SHEET SIZE
NOUR ALJIL	INFRA TEAM	INFRA TEAM	N.A.	FADNA ABUGHADA	INFRA.			JUNE 2021	STAGE 4	A1

1 UNIT = 10 mm WHEN PRINTED AT A0 SHEET SIZE

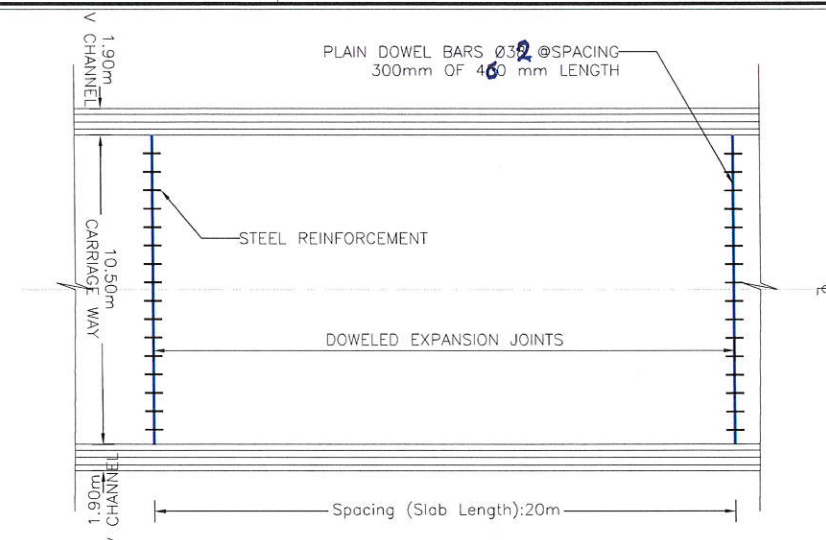
PROJECT NO	ZONE	BUILDING	SHEET NO.
PD-1156			RD-16

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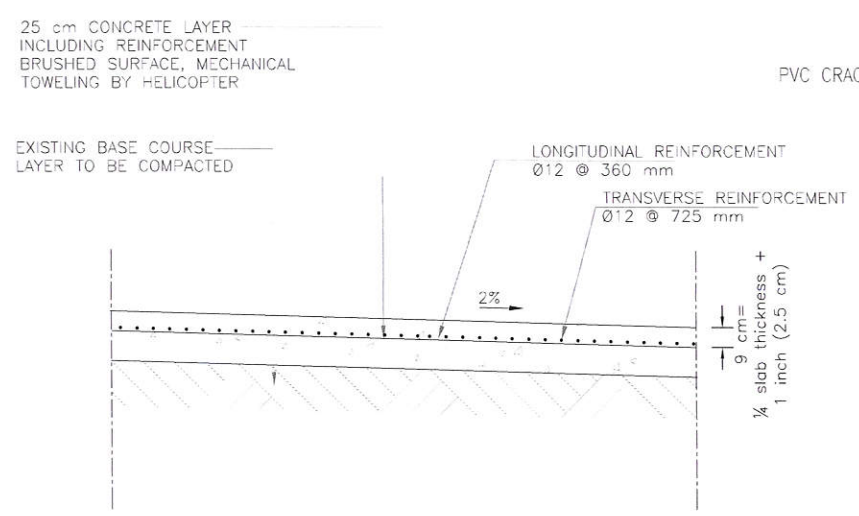
المستقبل



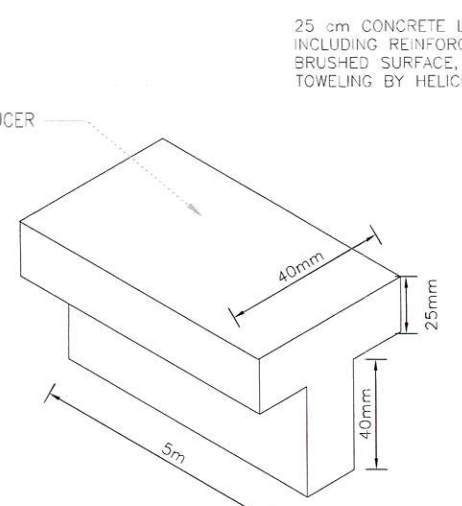
**PROPOSED ROAD TYPICAL CROSS SECTION**  
 FROM STA. 1+100 TO STA. 2+289,  
 SCALE 1 : 50



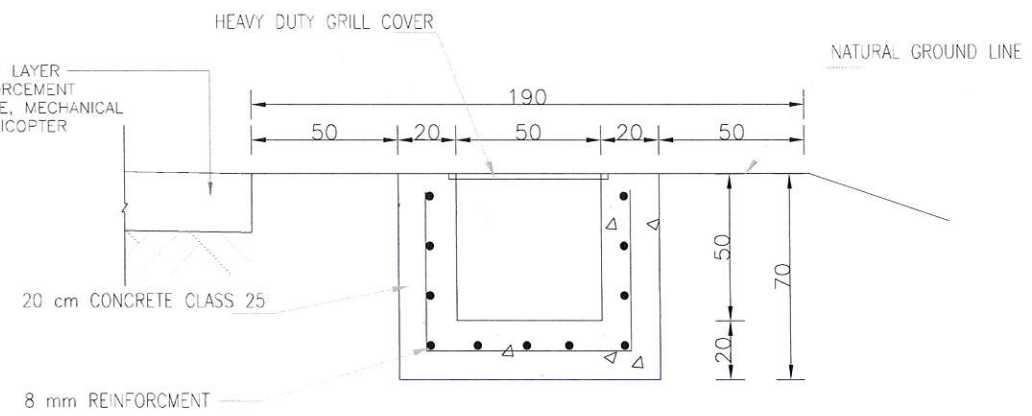
**EXPANSION JOINTS LOCATION PLAN**  
 N.T.S.  
 IMPORTANT NOTE : DOWEL BAR ARE INSERTED INTO CONCRETE BARREL TO CENTERLINE OF ROAD WAY AND THE SURFACE OF THE PAVEMENT



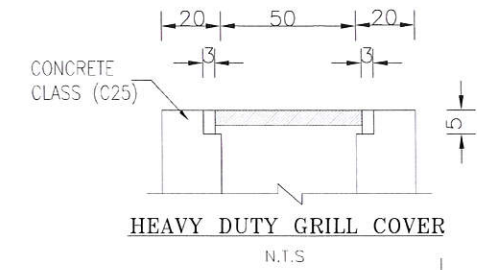
**DETAIL(D)**  
 SCALE 1 : 20



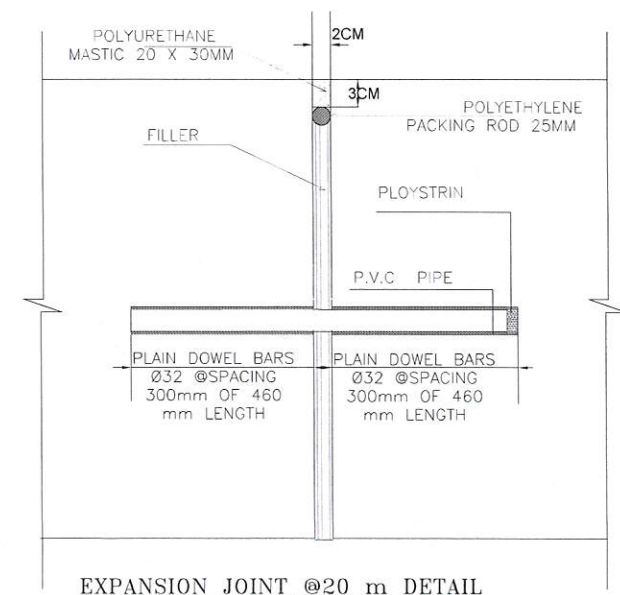
**CRACK INDUCER C140Y**  
 N.T.S.  
 NOTE: TO WORK EFFECTIVELY IT IS RECOMMENDED THAT THE TOTAL DEPTH OF THE TOP OR TOP AND BOTTOM CRACK INDUCERS SHOULD BE BETWEEN 1/4 AND 1/3 OF THE TOTAL SLAB THICKNESS.



**DETAIL(E)**  
 SCALE 1 : 20

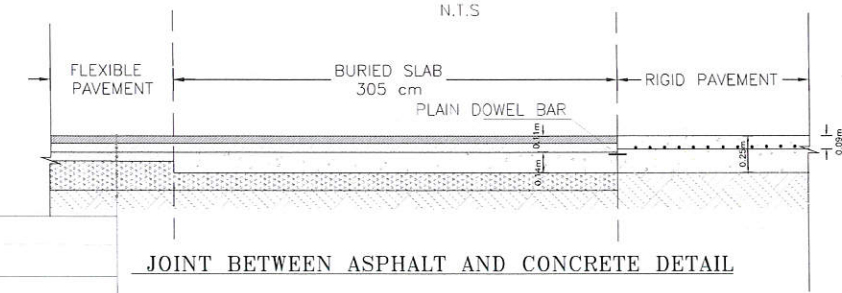


**HEAVY DUTY GRILL COVER**  
 N.T.S.



**EXPANSION JOINT @20 m DETAIL**

- 5cm WEAVING COURSE
- TACK COAT
- 6cm BINDER COURSE
- TACK COAT
- 6cm BINDER COURSE
- PRIME COAT
- 20cm AGGREGATE BASE COURSE CBR > 80
- EXISTING BASE COURSE LAYER TO BE COMPACTED



**JOINT BETWEEN ASPHALT AND CONCRETE DETAIL**

Client :  
 THE HASHEMITE KINGDOM OF JORDAN  
 Ministry of Public Works & Housing

Design Consultant :  
**MOSTAQBAL**  
 ENGINEERING AND ENVIRONMENTAL CONSULTANTS PSC  
 Tel: 00962 6 5923602 Fax: 00962 6 5923601  
 P.O.Box: 2084 Amman, Postal Code: 11821 Jordan  
 http://www.mostaqbal.jo

Key Plan:

- NOTES:
- 1 ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDICATED
  - 2 PROPOSED CONCRETE PIPE WITH ENCASEMENT 10300mm AT THE INTERSECTION WITH EXISTING BUILDING ACCESS AND ENTRANCES TO BE ADDED AS SHOWN IN PLAN
  - 3 V DITCH TO BE COVERED BY HEAVY DUTY GRILL SYSTEM AND TO BE WELDED OR ANY SOLUTION APPROVED BY ENGINEER.

Rev.	Revision History	Approved by	dsbm/yyyy
06	STAGE 04	-	JUNE 2021
05	STAGE 04	-	MAY 2021
04	REVISED STAGE 03	-	MAY 2021
03	REVISED STAGE 03	-	APRIL 2021
02	STAGE 03	-	MARCH 2021
01	STAGE 02	-	FEB 2021
00	STAGE 01	-	JAN 2021

PROJECT NAME  
**Rehabilitation of Pavement Layers for Cargo Road - Al Qastal**

SHEET TITLE  
**ROAD TYPICAL SECTIONS & DETAILS**

SHEET 02 OF 03

PROJECT MANAGER	INFR. TEAM	LOT NO.	-
DESIGNED BY	INFR. TEAM	BASIN NO.	-
DRAWN BY	INFR. TEAM	DATE	JUNE 2021
CHECKED BY	N/A	STAGE	STAGE 4
APPROVED BY	FADWA ABU-GHAIDA	SHEET SIZE	A1
DISCIPLINE	INFR.	SCALE	AS SHOWN

1 UNIT = 10 mm WHEN PRINTED AT A0 SHEET SIZE

PROJECT NO.	ZONE	BUILDING	SHEET NO.
PD-1156			RD-17

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الأشغال الهندسية والبيئية (م.ع.م)  
 ماستاقبال















**DETOUR LENGTHS**  
 Existing Road =9296m  
 New construction =7425m

Client :  
 THE HASHEMITE KINGDOM OF JORDAN  
 Ministry of Public Works & Housing

Design Consultant :  
**MOSTAQBAL**  
 ENGINEERING AND ENVIRONMENTAL CONSULTANTS PRC  
 Tel: 00962 6 5923602, Fax: 00962 6 5923601  
 P.O.Box: 2084 Amman, Postal Code: 11821 Jordan  
 http://www.mostaqbal.jo

Key Plan:  


NOTES:  
 - ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE INDICATED

- LEGEND:
-  EXISTING ROAD CENTERLINE
  -  EXISTING ROAD TO BE USED AS DETOUR
  -  PROPOSED DETOUR
  -  TRAFFIC DIRECTION
  -  FIBER
  -  PVC
  -  BURIED CABLE
  -  AEIAL CABLE
  -  POLE OR EQUIPMENT
  -  GAS LINE
  -  SEWER NETWORK
  -  WATER NETWORK

06	STAGE 04	JUNE 2021
05	STAGE 04	MAY 2021
04	REVISED STAGE 03	MAY 2021
03	REVISED STAGE 03	APRIL 2021
02	STAGE 03	MARCH 2021
01	STAGE 02	FEB 2021
00	STAGE 01	JAN 2021

Rev. | Revision History | Approved by | dghm/yyy

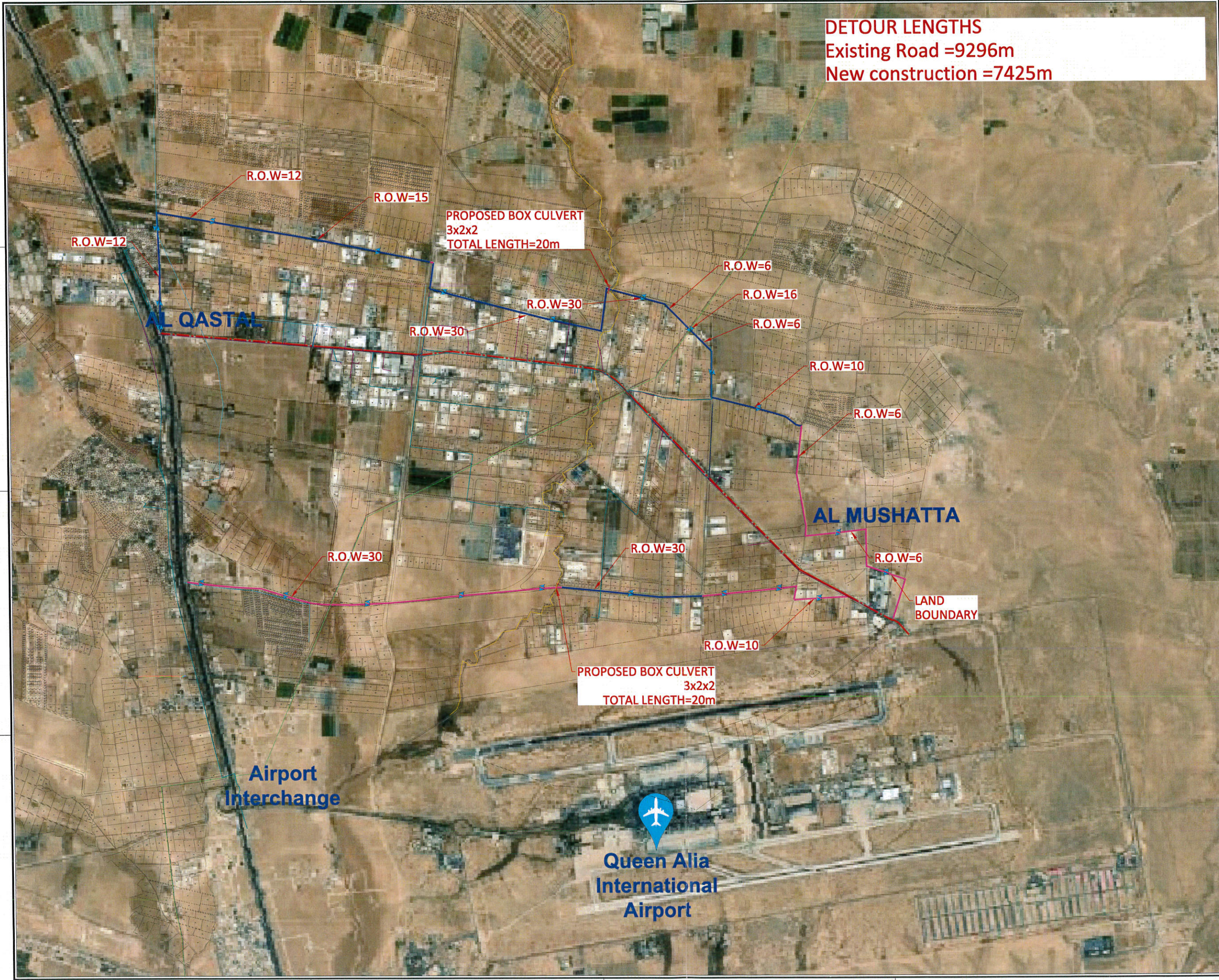
PROJECT NAME:  
 Rehabilitation of Pavement Layers for Cargo Road - Al Qastal

SHEET TITLE:  
 DETOUR OPTION (1)

PROJECT MANAGER	NOUR ALJIL	LOT NO.	-
DESIGNED BY	INFRA. TEAM	BASIN NO.	-
DRAWN BY	INFRA. TEAM	DATE	JUNE 2021
CHECKED BY	N.A.	STAGE	STAGE 4
APPROVED BY	FADWA ABU-GHAIDA	SHEET SIZE	A1
DISCIPLINE	INFRA	SCALE	1:15000

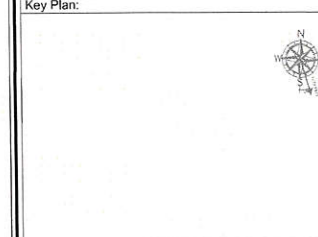
PROJECT NO	ZONE	BUILDING	SHEET NO.
PD-1156	-	-	RD-19

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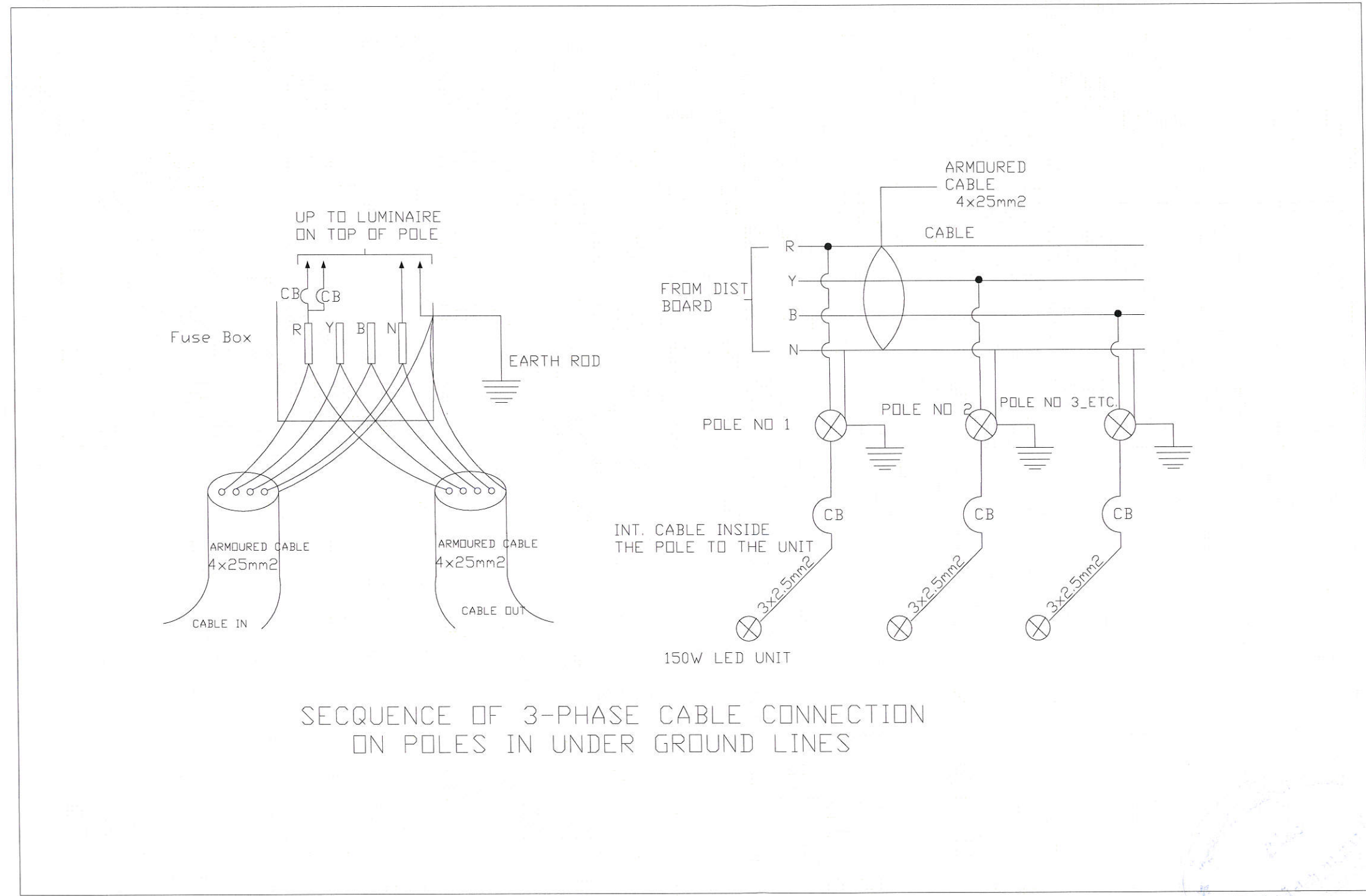


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المشرف



NOTES:



المشرف العام  
 مدير المشروع

Rev.	Revision History	Approved by	dd/mm/yyyy
06	STAGE 04	-	JUNE 2021
05	STAGE 04	-	MAY 2021
04	REVISED STAGE 03	-	MAY 2021
03	REVISED STAGE 03	-	APRIL 2021
02	STAGE 03	-	MARCH 2021
01	STAGE 02	-	FEB 2021
00	STAGE 01	-	JAN 2021

PROJECT NAME:  
 Rehabilitation of Pavement  
 Layers for  
 Cargo Road - Al Qastal

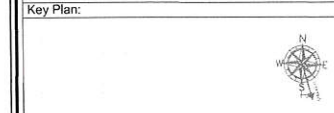
SHEET TITLE:  
 SEQUENCE OF 3-PHASE CABLE CONNECTION  
 ON POLES IN UNDER GROUND LINES

PROJECT MANAGER	MPWH	LOT NO.	-
DESIGNED BY	MPWH	BASIN NO.	-
DRAWN BY	MPWH	DATE	JUNE 2021
CHECKED BY	MPWH	STAGE	STAGE 4
APPROVED BY	MPWH	SHEET SIZE	A1
DISCIPLINE	MPWH	SCALE	AS SHOWN

1 UNIT = 10mm	WHEN PRINTED AT A0 SHEET SIZE		
5	1 2 3 4 5		
PROJECT NO	ZONE	BUILDING	SHEET NO.
PD-115B			LE-01



مخطط! مرفأ



NOTES:

المجلس الوطني  
 لقطاع الأشغال العامة

06	STAGE 04	-	JUNE 2021
05	STAGE 04	-	MAY 2021
04	REVISED STAGE 03	-	MAY 2021
03	REVISED STAGE 03	-	APRIL 2021
02	STAGE 03	-	MARCH 2021
01	STAGE 02	-	FEB 2021
00	STAGE 01	-	JAN 2021

Rev. / Revision History Approved by dsmm/yyyy

PROJECT NAME:  
 Rehabilitation of Pavement  
 Layers for  
 Cargo Road - Al Qastal

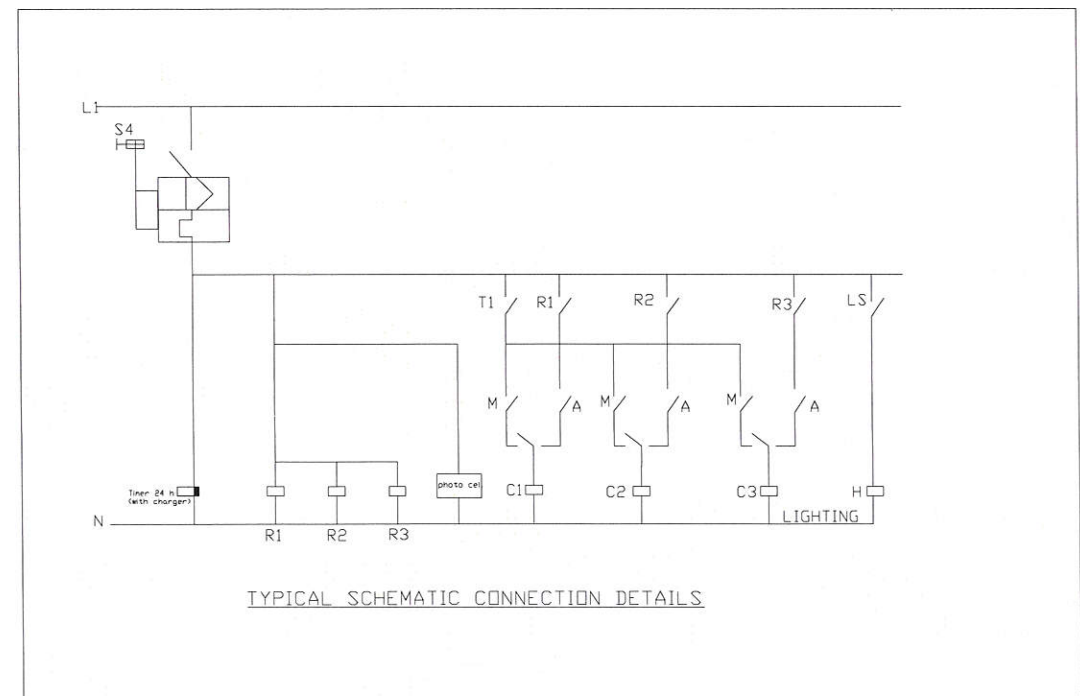
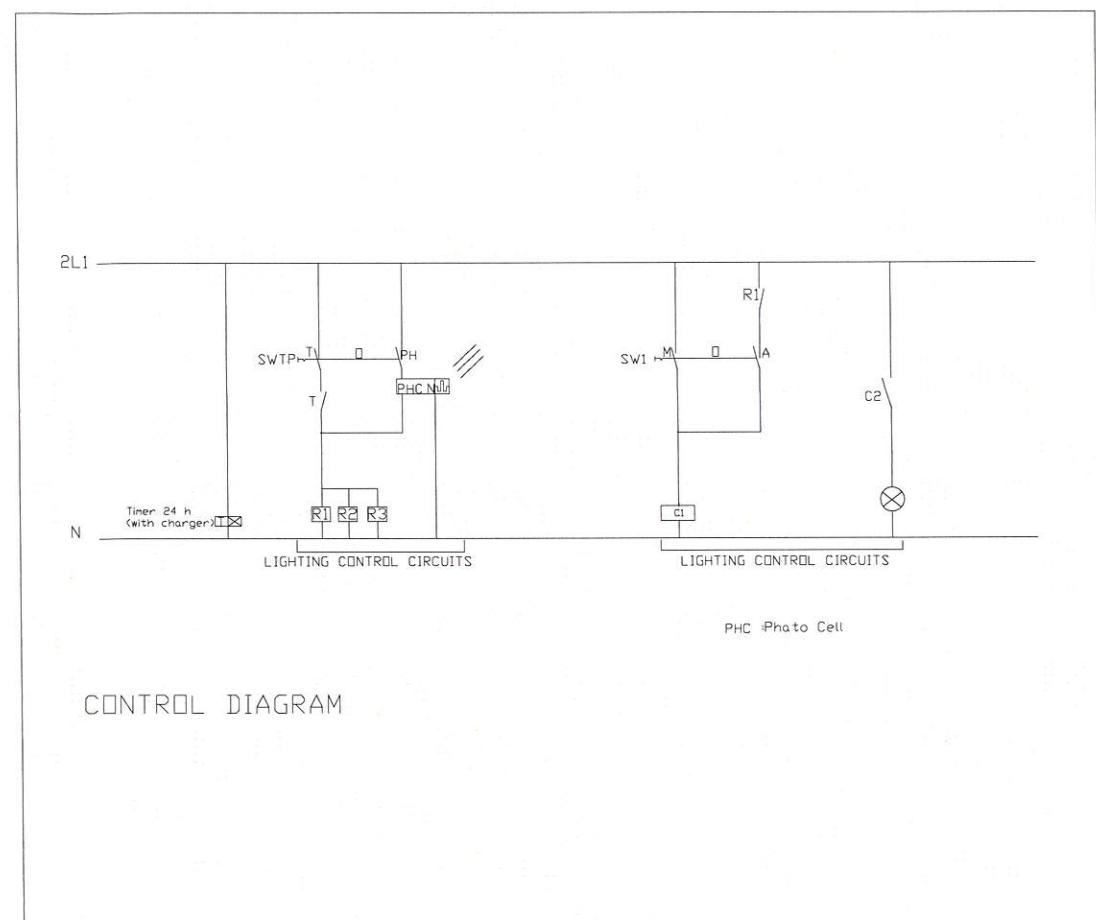
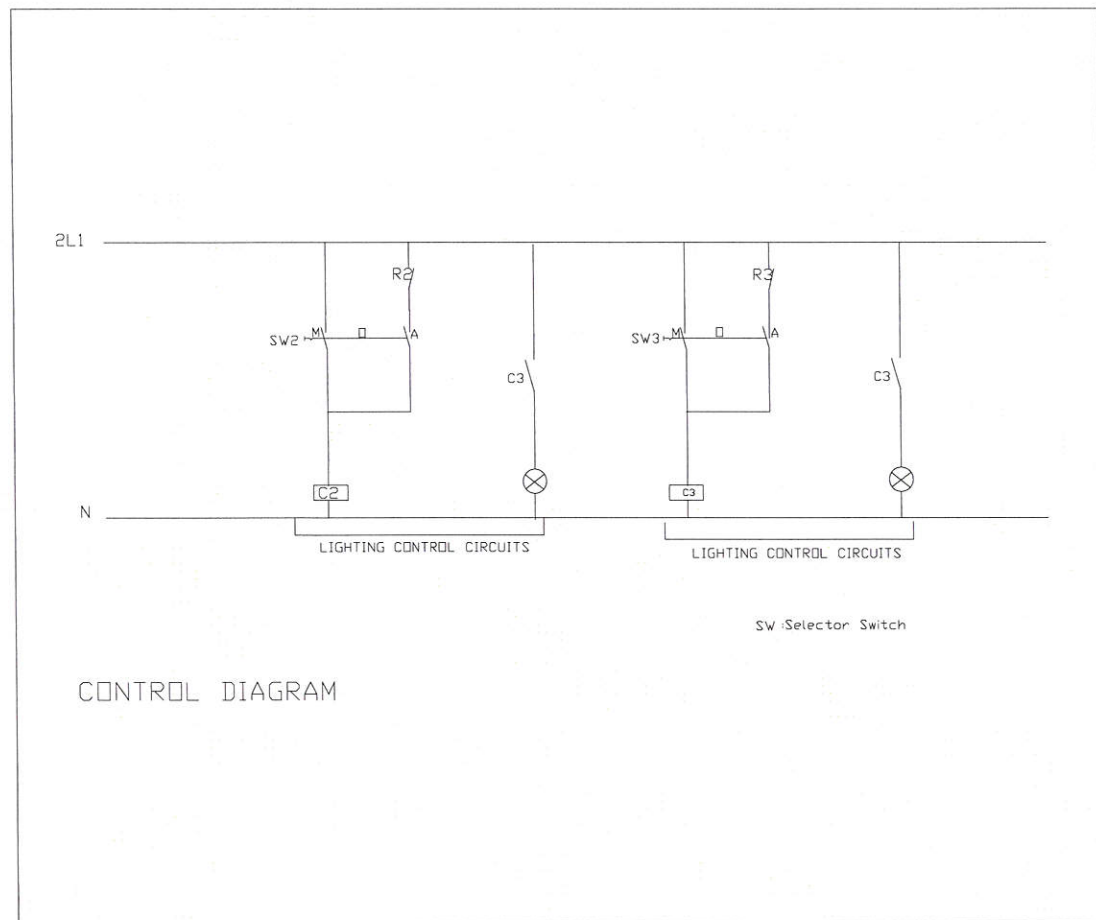
SHEET TITLE:  
 CONTROL DIAGRAM & TYPICAL SCHEMATIC  
 CONNECTION DETAILS

PROJECT MANAGER	MPWH	LOT NO.	-
DESIGNED BY	MPWH	BASIN NO.	-
DRAWN BY	MPWH	DATE	JUNE 2021
CHECKED BY	MPWH	STAGE	STAGE 4
APPROVED BY	MPWH	SHEET SIZE	A1
DISCIPLINE	MPWH	SCALE	AS SHOWN

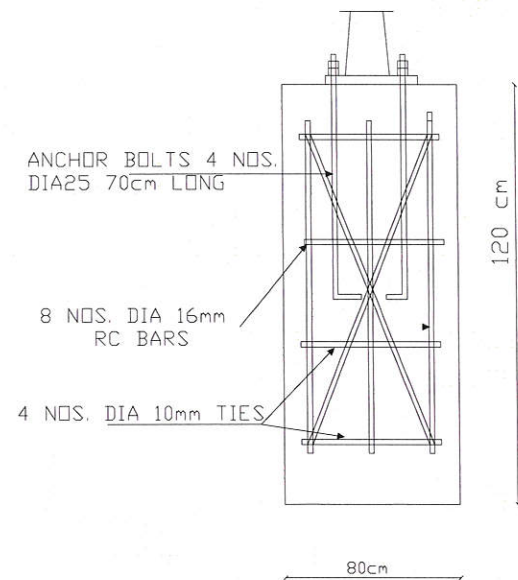
1 UNIT = 10 mm WHEN PRINTED AT A0 SHEET SIZE

PROJECT NO.	ZONE	BUILDING	SHEET NO.
PD-1156			LE-02

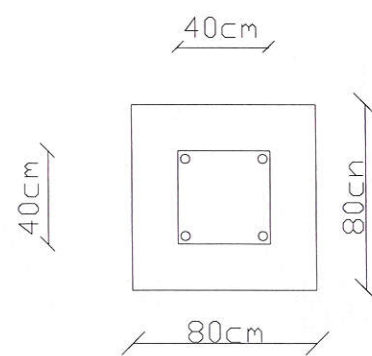
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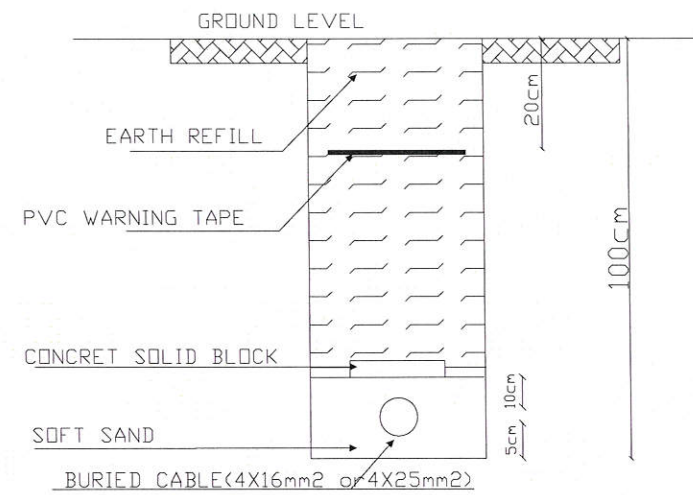
عبدالله ابراهيم



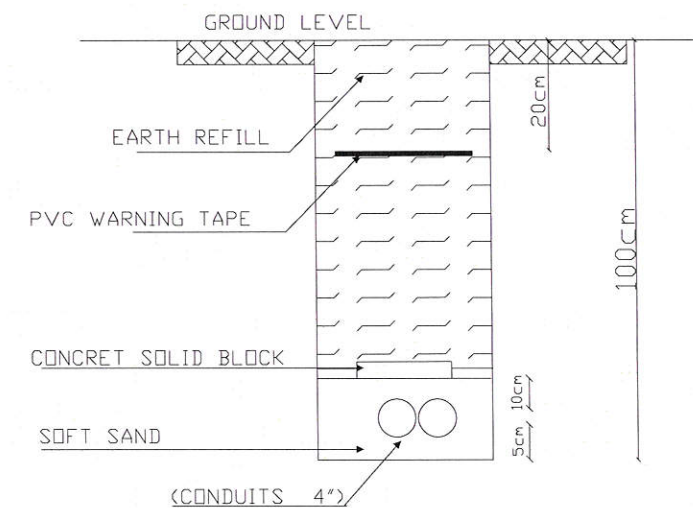
POLE FOUNDATION  
REINFORCEMENT



POLE BASE



TYPICAL DETAIL FOR CABLES IN  
CENTRAL MEDIAN



TYPICAL DETAIL FOR CABLES IN  
ASPHALT MEDIA

Client :

THE HASHEMITE KINGDOM OF JORDAN  
Ministry of Public Works & Housing



Design Consultant :

**MOSTAQBAL**  
ENGINEERING AND ARCHITECTURE CONSULTANTS  
Tel: 00962 6 5923602, Fax: 00962 6 5923601  
P.O.Box: 2084 Amman, Postal Code: 11821 Jordan  
http://www.mostaqbal.jo

Key Plan:



NOTES:

مراجعة المهندس  
مراجعة المهندس

06	STAGE 04	-	JUNE 2021
05	STAGE 04	-	MAY 2021
04	REVISED STAGE 03	-	MAY 2021
03	REVISED STAGE 03	-	APRIL 2021
02	STAGE 03	-	MARCH 2021
01	STAGE 02	-	FEB 2021
00	STAGE 01	-	JAN 2021

Rev. / Revision History Approved by 06mm/yyyy

PROJECT NAME:

Rehabilitation of Pavement  
Layers for  
Cargo Road - Al Qastal

SHEET TITLE:

TYPICAL DETAIL FOR CABLES & POLE

PROJECT MANAGER	MPWH	LOT NO.	-
DESIGNED BY	MPWH	BASIN NO.	-
DRAWN BY	MPWH	DATE	JUNE 2021
CHECKED BY	MPWH	STAGE	STAGE 4
APPROVED BY	MPWH	SHEET SIZE	A1
DISCIPLINE	MPWH	SCALE	AS SHOWN

1 UNIT = 10mm WHEN PRINTED AT A3 SHEET SIZE

PROJECT NO	ZONE	BUILDING	SHEET NO.
PD-1158			LE-03

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Handwritten signature: *sup! bbs*

Client :

THE HASHEMITE KINGDOM OF JORDAN  
Ministry of Public Works & Housing



Design Consultant :

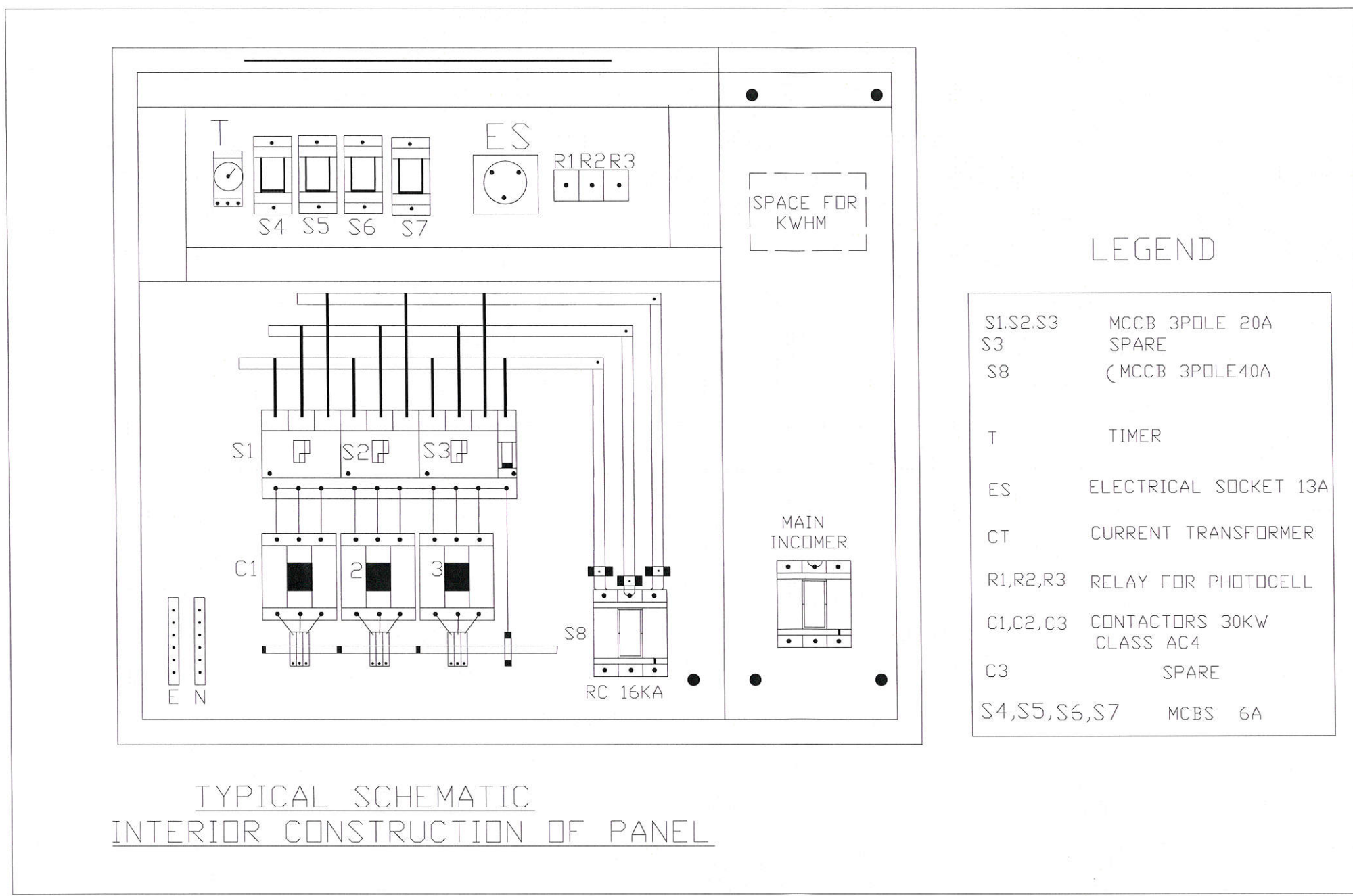


Tel: 00962 6 5923602, Fax: 00962 6 5923601  
P.O.Box: 2084 Amman, Postal Code: 11821 Jordan  
http://www.mostaqbal.jo

Key Plan:



NOTES:



مجلس المهندسين العرب  
مجلس المهندسين الكهربائيين

Rev.	Revision History	Approved by	ddmm/yyyy
06	STAGE 04	-	JUNE 2021
05	STAGE 04	-	MAY 2021
04	REVISED STAGE 03	-	MAY 2021
03	REVISED STAGE 03	-	APRIL 2021
02	STAGE 03	-	MARCH 2021
01	STAGE 02	-	FEB 2021
00	STAGE 01	-	JAN 2021

PROJECT NAME:

Rehabilitation of Pavement  
Layers for  
Cargo Road - Al Qastal

SHEET TITLE:  
TYPICAL SCHEMATIC  
INTERIOR CONSTRUCTION OF PANEL

PROJECT MANAGER	MPWH	LOT NO.	-
DESIGNED BY	MPWH	BASIN NO.	-
DRAWN BY	MPWH	DATE	JUNE 2021
CHECKED BY	MPWH	STAGE	STAGE 4
APPROVED BY	MPWH	SHEET SIZE	A1
DISCIPLINE	MPWH	SCALE	AS SHOWN

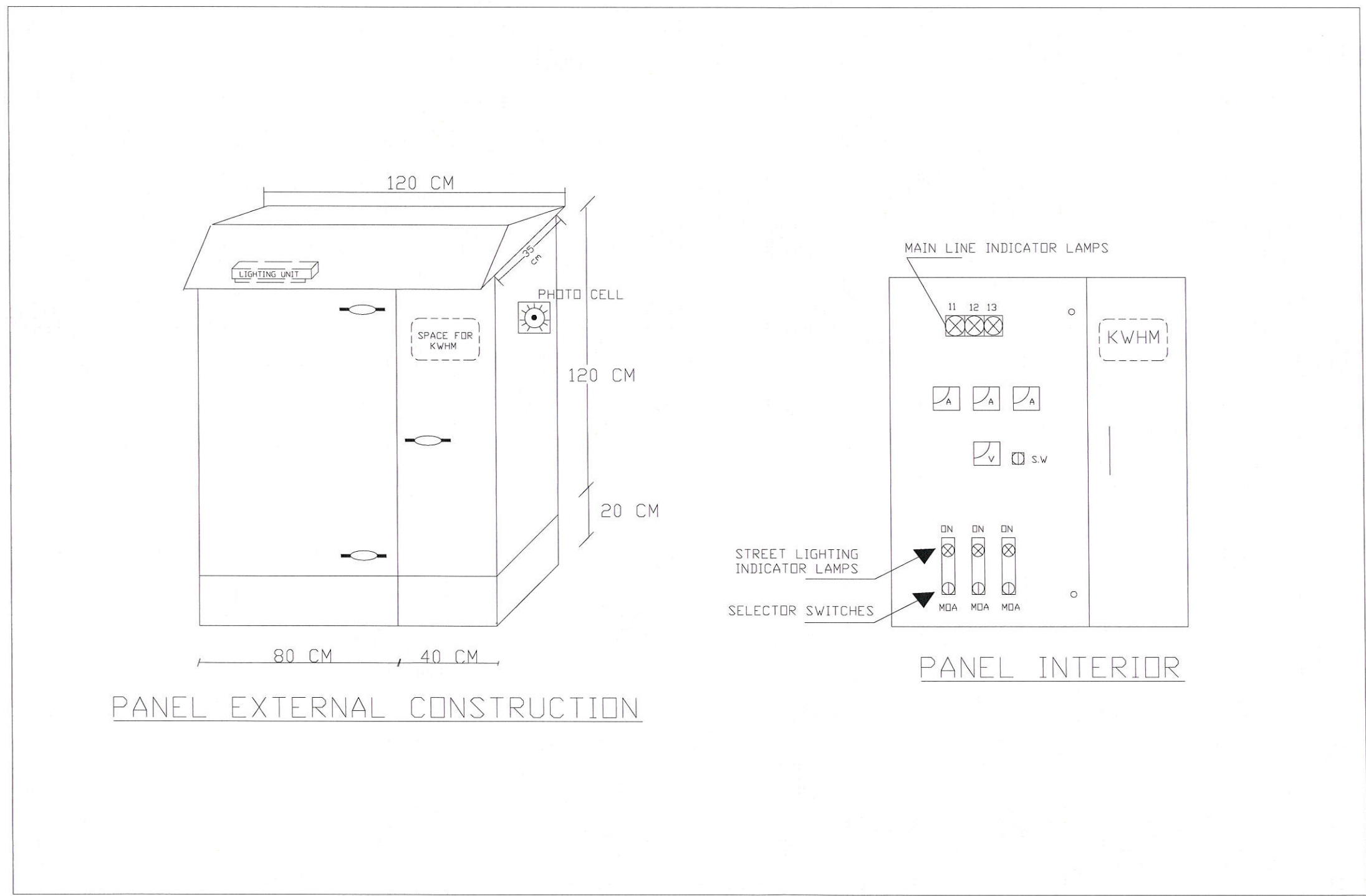
1 UNIT = 10mm WHEN PRINTED AT A0 SHEET SIZE

PROJECT NO	ZONE	BUILDING	SHEET NO.
PD-1156			LE-04

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قطر اصناف



PANEL EXTERNAL CONSTRUCTION

PANEL INTERIOR

مدير المشروع: محمد علي بن النجار  
مهندس التصميم: محمد علي بن النجار

Rev.	Revision History	Approved by	05/06/2021
06	STAGE 04	-	JUNE 2021
05	STAGE 04	-	MAY 2021
04	REVISED STAGE 03	-	MAY 2021
03	REVISED STAGE 03	-	APRIL 2021
02	STAGE 03	-	MARCH 2021
01	STAGE 02	-	FEB 2021
00	STAGE 01	-	JAN 2021

PROJECT NAME:

Rehabilitation of Pavement Layers for Cargo Road - Al Qastal

SHEET TITLE:

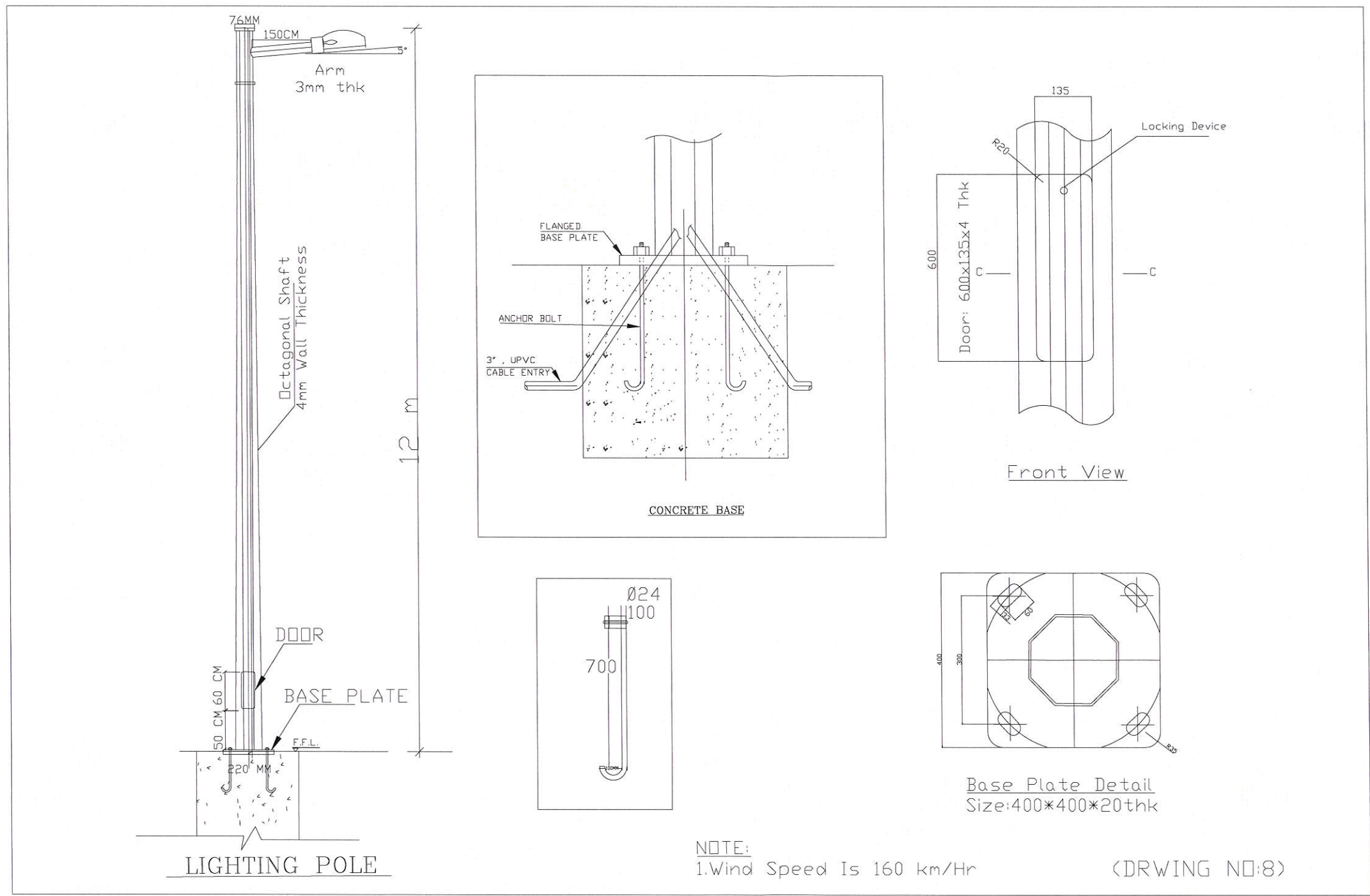
PANEL EXTERNAL CONSTRUCTION & PANEL INTERIOR

PROJECT MANAGER	MPWH	LOT NO.	-
DESIGNED BY	MPWH	BASIN NO.	-
DRAWN BY	MPWH	DATE	JUNE 2021
CHECKED BY	MPWH	STAGE	STAGE 4
APPROVED BY	MPWH	SHEET SIZE	A1
DISCIPLINE	MPWH	SCALE	AS SHOWN

1 UNIT = 10 mm WHEN PRINTED AT A3 SHEET SIZE

PROJECT NO	ZONE	BUILDING	SHEET NO.
PD-1158			LE-05

محمد علي بن النجار



مكتب الدراسات الهندسية  
مستقبل

06	STAGE 04	--	JUNE 2021
05	STAGE 04	--	MAY 2021
04	REVISED STAGE 03	--	MAY 2021
03	REVISED STAGE 03	--	APRIL 2021
02	STAGE 03	--	MARCH 2021
01	STAGE 02	--	FEB 2021
00	STAGE 01	--	JAN 2021

Rev. Revision History Approved by 04mm/yyyy

PROJECT NAME  
**Rehabilitation of Pavement Layers for Cargo Road - Al Qastal**

SHEET TITLE:  
**LIGHTING POLE**

PROJECT MANAGER	MPWH	LOT NO.	--
DESIGNED BY	MPWH	BASIN NO.	--
DRAWN BY	MPWH	DATE	JUNE 2021
CHECKED BY	MPWH	STAGE	STAGE 4
APPROVED BY	MPWH	SHEET SIZE	A1
DISCIPLINE	MPWH	SCALE	AS SHOWN

1 UNIT = 10 mm WHEN PRINTED AT A0 SHEET SIZE			
PROJECT NO	ZONE	BUILDING	SHEET NO.
PD-1158			LE-06

مستقبل