

Procedure for Road & Drainage Submission

Scope of works:

- * All works that need to be taken over by DBKL and coloured accordingly. For those not surrender, we are still responsible technically.
- * Works inside building and internal circulation are under the responsibility of Architect, we are only responsible for pavement design etc.
- * Street lighting and compound lighting is under M/E

DBKL has been taken as a standard as it is usually higher standard (010208). May need modification for other authority.

No.	Task	Action			Remarks
		Yes	No	N.A.	
A	Particulars of Authority				..l.. Authority - Telephone Directory.xls
-	000720:Address : Jabatan Kerja Awam, Dewan Bandaraya Kuala Lumpur, Tingkat 16-19, Bangunan Dewan Bandaraya, Jalan Raja Laut, 50350 Kuala Lumpur				
-	000720:Contact No.: Tel 291 6011 / Fax 291-9149 / Office at 17th Floor				
-	000720:Timbalan Pengarah JKA : Ir. Tan Keng Chok (Ext 3605 / Direct Line 299 3605)				
-	000720:Engineer : Ir. Wan Mohd Nor Bin Wan Yaacob (Ext 3607 / Direct Line 299 3607)				
-	000720:Technical Assistant : En. Ahmad Kamal bin Alias / En. Sharif bin Sohoh (Ext 3606)				
-	000720:File Controller : Pn. Dzarina (Ext 3604) - in-charge of file opening / file ref. no.				
-	000720:As of year 2000, the authority in-charge of the local area are as follows:-				
	000720:BANGSAR => Jurutera = Wang Seng / PT = Badrul / Juruteknik = Kamaruzaman				
	000720:CHERAS => Jurutera = Wan Mohd. Nor / PT = Sarif & Abdul Kamal / Juruteknik = Kamarunizam				
	000720:DAMANSARA => Jurutera = Yew Khoi Seng / JT = Omar / JT = Zawawi				
	000720:SETAPAK => Jurutera = Mohd. Yasin Bin Jamaludin (ext.3592) / PTK = Kasmah Binti Hassim (ext.3577) / PT = Hamdan				
B	Planning Approval Stage - Technical Requirements by Authority				
-	To check with the authority on their requirements for the development.				
	The information on the technical requirements by the Authority may be obtained by the Architect or the Engineer - to be incorporated into the proposed planning layout.				For project with big land area, we may have to help to sort out the Drain Reserve if exist (in many case, redesign to reduce the width provision), road reserve provision, water supply provision from JBA, and sewer requirement from JPP (whether treatment plant at site or central sewer).
1	Road Reserve Requirement				
	In Project 152 - Jalan Cheras & Jalan Peel 100 ft road reserve and Jalan Shelley 50 ft road reserve. The existing Jalan Timun within the site is to be demolished. The existing Jalan Bayam within the site is to be replaced with a 50 ft road reserve for commercial development, leading to a perpendicular 50 ft road reserve (between Shop/Office and Apartment/Retail Podium) out into Jalan Shelley.				Architect indicated in the layout.
2	Setback Requirement				

	In Project 152 - Additional 25 feet setback requirement for future Service Road / Jalan Susur along the Jalan Cheras 100 ft road reserve. This requirement affects the existing site boundary facing the Jalan Cheras main road.				Architect indicated in the layout.
3	Nearby Highway Requirement - Info from Lembaga Lebuhraya Malaysia				
	In Project 152 - There is a proposed highway leading to KLIA, starting at Bulatan Pandan (intersection of Jalan Tun Razak and Jalan Kampung Pandan), linking Technology Park to KLIA. There is no interchange at Taman Maluri area, except for road ramps. The proposed highway does not affect this project site.				Info from Pn. Nazrul, the Engineer in Bahagian Teknikal of Lembaga Lebuhraya Malaysia (Tel 837 3000 / Fax 837 5339)
4	Request to submit Road and Drainage (RD) Layout Plan during Planning approval stage				Submit to Local Authority, JKR and JPS
	Some local Authority (like MPMBB) may requested for Road and Drainage Layout to be submitted during planning approval stage, to see the conceptual design of the Road and Drain system (direction of flow and how they connect to existing system).				No need to be very detail design. The important thing is to show the Authority that the concept of road and drainage design is workable and able to connect to existing system.
	Prepare a cover for the above (RD plan) submission. Submit together the planning layout plan (from planner or Architect) and survey plan.				1=Preliminary & Planning Stage Sample Letter\1_1=JKR Melaka planning approval submission.doc
C	Architect to Obtain the Development Order (Surat Perintah Pembangunan) and the Approved / Endorsed Planning Layout from Planning Department				To obtain 1 copy each from the Architect for submission to Authority
1	The Development Order - Engineer to study all the requirements on the civil works.				
2	The Approved / Endorsed Planning Layout - Engineer to study and identify the road reserve / area to be surrendered to Authority.				
D	Detailed Submission Stage - Important Items to Incorporate in Road & Drainage Plans (to be continually updated)				DBKL will only accepted these submission with DO attached
1	Layout Plan				
-	To indicate northing point				
-	Do not show the carparking line (on surrendered road) in the layout plan. This is to avoid confusion that the carparking proposal is approved by JKA. In actual fact, the carparking proposal is to be submitted by the Architect to Jabatan Pengangkutan Bandar for approval. In the past, there are some who argued that it is already approved by JKA, based on the approved r&d plan.				
-	DBKL's Earthwork Submission Checklist Requirements as below:				..1..Standard Guidelines4447x7\DBKL Checklist for Submission of Road and Drainage=990811.xls
1	Sesalinan Borang JKAL1/ dan 3 yang telah diisi dengan sepenuhnya hendaklah dikemukakan.				
2	Kesemua pelan hendaklah disahkan dengan pengesahan piawai Jabatan ini yang berbunyi seperti berikut : " I hereby certify that these works have been designed by me in accordance with sound engineering practice and that I take full responsibility for the design and proper performance of the same." dan seterusnya ditandatangani di bawahnya oleh tuan.				For all plans and reports.

	All plans to be P.E. endorsed with JKA's piawai jabatan "I hereby certify that these works have been designed by me in accordance with sound engineering practice and that I take full responsibility for the design and proper performance of the same" .			
3	Sesalinan Perintah Pembangunan berkaitan dan sesalinan Pelan Tapak yang pihak berkuasa Jabatan Perancang & Kawalan Bangunan hendaklah dikemukakan. Sila nyatakan syarat manakah yang berkaitan dengan pengemukaan tuan. Sila maklum hanya kawasan di mana kelulusan perancangan telah diberi sahaja yang boleh dipertimbangkan oleh Jabatan ini.			
4	Pelan lokasi yang lengkap dengan jalan-jalan yang boleh digunakan untuk menuju ke tapak hendaklah dikemukakan. Lokasi tapak hendaklah diwarnakan. Anak panah arah Utara hendaklah ditunjukkan. Sila berikan nama tiga batang jalan sekitar tapak bagi memudahkan lawatan tapak dijalankan kelak.			
	Key plan and location plan of the project site to be included in the layout plan. Location plan to be used as a guide for the Authority to reach the site for site visit. To include the names of 3 roads that lead to the project site.			Layout to incorporate site key plan and location plan - NOT in separate A4 or A3 Drawings.
5	Kesemua pelan dan Borang JKAL/1 dan 3 hendaklah mengandungi maklumat seperti berikut iaitu nama penuh alamat surat menyurat dan juga tandatangan perunding dan juga pemilik.			
6	Seal Jurutera Profesional (Awam) berkenaan hendaklah dimeterikan di atas pelan-pelan dan Borang JKAL/1 dan 3.			
7	Setiap kali pengemukaan dibuat, hendaklah disertakan surat yang mengandungi maklumat atau penerangan berkaitan dengan pengemukaan tersebut. Surat tersebut hendaklah dialamatkan kepada Pengarah, Jabatan Kerja Awam & Lalulintas.			
8	Kesemua gambarajah yang dikemukakan hendaklah diwarnakan. Butir-butir yang berlainan hendaklah diwarnakan dengan warna yang berbeza.			As described in Section D____
9	Semua pelan-pelan yang berkenaan hendaklah dikemukakan dalam dua (2) salinan.			
10	Dinding batu-bata berukuran 9" tebal hendaklah dibina kepada ketinggian maksimum 3' 6" dan ditambah menjadi 13.5" bagi ketinggian melebihi 3' 6" tetapi tidak melebihi 5' 0".			
	Drain brickwall height and thickness as below :- 0 < wall ht < 3'-6" (1050mm) to use thickness 9" (225mm) 3'6" < wall ht < 5'-0" (1500mm) to use thickness 13.5" (338mm)			
11	Bahagian jalan masuk yang menghubungkan slab culvert pintu masuk dan jalan sediaada hendaklah dibina daripada 2" (50mm) premix di atas 8" (200mm) batu crusher run.			
	Connecting road between the existing road and the entrance slab culvert to be 2" (50mm) premix on top of 8" (200mm) crusher run.			
12	Bahagian teratas slab culvert pintu masuk hendaklah dibina rata dan separas dengan bahagian jalan dalam rezab jalan.			
	The top of the entrance slab culvert to same level with the road level.			
13	Butir-butir besi tetulang untuk slab culvert pintu masuk hendaklah dibatalkan.			reinforcement details are not required.
14	Sila nyatakan di dalam pelan tuan samada butir-butir culvert pintu masuk yang diberikan adalah mewakili kedua-dua culvert pintu masuk atau tidak. Butir binaan untuk setiap culvert pintu masuk hendaklah dapat dirujuk.			
15	Longkang tepi jalan hendaklah dibina di luar lot yang mana bersempadan dengan garisan sempadan yang baru dan sistem perparitan yang baru ini hendaklah dapat dihubungkan dengan baiknya dengan sistem yang sediaada.			
	External roadside drain to be along the boundary line and to connect to the existing drainage system downstream.			
16	Longkang tepi jalan hendaklah dicadangkan dari jenis 12" HRGW atau yang sama seperti yang sediaada. Sila sahkan samada longkang tepi jalan disekitar lot adalah sediaada atau tidak.			

	The proposed roadside drain to be 12" (300mm) HRGW or its equivalent of the existing. To indicate the drain at the perimeter of the lot to be proposed or existing.			
17	<i>Dinding batu-bata 9" tebal hendaklah diplaster dengan simen mortar setebal 3/4" tebal. Sila tunjukkan dalam gambarajah keratan rentas.</i>			
	Drain brickwall to be covered with 3/4" (18mm) thick cement mortar. To indicate in the drain cross-section details.			
18	<i>Tebal minimum slab culvert pintu masuk ialah 4" (100mm) tebal.</i>			
	Minimum thickness of entrance culvert slab to be 4" (100mm).			
19	<i>M.S. Grating dari jenis "Removable Type" hendaklah dicadangkan dengan saiz minima 18" x 24" dan hendaklah ditempatkan di tengah-tengah culvert pintu masuk.</i>			
	To propose m.s. grating of removable type at the centre of the entrance culvert. Minimum size to be 18" x 24".			
20	<i>Panjang wing wall hendaklah tidak melebihi lebar span culvert pintu masuk.</i>			
	Length of the wing wall to be not greater than the span of the entrance culvert			<i>To add to Standard Notes</i>
21	<i>Panjang culvert pintu masuk hendaklah dicadangkan di antara 12' 0" hingga 20' panjang.</i>			
	Length of the entrance culvert to be 12'-0" (3600mm) to 20'-0" (6000mm).			
22	<i>Dinding-dinding batu-bata 9" tebal hendaklah berada di atas "concrete haunching".</i>			
	Brickwall for drain to be on the concrete haunching.			
23	<i>Tebal konkrit asas longkang hendaklah sekurang-kurangnya 6" tebal.</i>			
	Minimum thickness of drain concrete base to be 6" (150mm).			
24	<i>Sila tunjukkan garisan sempadan di dalam gambarajah keratan rentas tuan.</i>			
	To indicate the boundary lines in the cross-section plans.			
25	<i>Sila nyatakan/tunjukkan jalan keluar dan masuk (Access road) bagi tapak ini. Jalan masuk hendaklah ditunjukkan bermula dari jalan besar/utama yang sediaada dan mematuhi seperti yang diluluskan oleh Jabatan Perancang & Kawalan Bangunan.</i>			
	To indicate the access road to the project site. To indicate the access into the site from the existing main road (with IN & OUT direction arrows) and to comply to the approved planning layout approved by Jabatan Perancang & Kawalan Bangunan..			
26	<i>Sila maklum bahawa pelan-pelan untuk jalan-jalan yang akan diserahkan sebagai jalan awam sahaja yang perlu dikemukakan untuk pertimbangan jabatan ini. Cadangan kerja di dalam lot-lot persendirian adalah tidak berkaitan pengemukaan ini.</i>			
	The proposed roads to be surrendered to DBKL as public roads are required to be submitted for approval. The proposed works within the lot is not included in the submission.			
27	<i>Maklumat mengenai jalan, perparitan dan lampu jalan hendaklah ditunjukkan di dalam pelan tapak tuan. Keadaan atau taraf setiap satu daripada infrastruktur tersebut hendaklah dinyatakan samada sediaada berkeadaan baik ataupun ia merupakan cadangan yang baru. Hanya butir-butir cadangan yang baru diluar lot sahaja yang perlu diwarnakan.</i>			
	To indicate the existing and proposed roads and drains on layout plan. To colour the proposed works outside the lot which is to be surrendered to DBKL.			
28	<i>Cadangan untuk kerja-kerja di dalam rezab parit/sungai dan lengungan saluran (sekiranya ada) hendaklah dirujukkan untuk kelulusan Jabatan Pengairan dan Saliran. Guardrail yang sesuai hendaklah dicadangkan disepanjang parit induk.</i>			
-	To submit the proposed works within the main drain reserve and/or any diversion of main drain to Jabatan Pengairan dan Saliran for approval. To propose guardrail along the main drain.			

29	<i>Selaku jurutera perunding bagi cadangan di atas, tuan dikehendaki mengesahkan secara bertulis pengesahan seperti berikut: "The finished level of the proposed roads and platform levels proposed are such that it will permit connection to adjoining existing or future roads."</i>																				
	To note - The finished level of the proposed roads and platform levels are such that they will permit connection of roads to adjoining existing or future roads				<i>To add to Standard Notes</i>																
30	<i>Untuk kesemua jalan lebar rezab jalan 66'-0" atau kurang, longkang-longkang tepi jalan hendaklah ditutupkan dengan precast r.c. slab.</i>																				
	To propose precast r.c. slab over the roadside drains within road reserve of 66'-0" or less.																				
31	<i>Siarkaki hendaklah dicadangkan di dalam skim ini dan butir-butir binaannya hendaklah dikemukakan. Siarkaki hendaklah dari jenis "homogenous tiles".</i>																				
	To propose unglazed homogeneous granite tiles 95mmx95mmx11mm or 97mmx97mmx15mm (or its approved equivalent) for the walkway pavement - instead of interlocking pavier blocks. Detail to DBKL Standard Dwg. No. JPB/SP/CON/003/8-97 - Installation of Granite Tiles. Incorporated into Dwg. No. _____				<i>unglazed homogeneous granite tiles on (1) base course / subgrade (2) precast slab over the drain to form part of the walkway pavement</i>																
32	<i>Rekabentuk rezab jalan hendaklah mematuhi kehendak DBKL seperti berikut:</i>																				
	<table border="1"> <thead> <tr> <th><u>Rezab Jalan</u></th> <th><u>Lebar Jalan</u></th> <th><u>Kawasan Hijau</u></th> <th><u>Siarkaki/Longkang</u></th> </tr> </thead> <tbody> <tr> <td>66'-0"</td> <td>40'-0"</td> <td>2x6'-0"</td> <td>2x7'0" / 3'0"</td> </tr> <tr> <td>50'-0"</td> <td>38'-0"</td> <td>2x3'-0"</td> <td>2x3'-0"</td> </tr> <tr> <td>40'-0"</td> <td>28'-0"</td> <td>2x3'-0"</td> <td>2x3'-0"</td> </tr> </tbody> </table>	<u>Rezab Jalan</u>	<u>Lebar Jalan</u>	<u>Kawasan Hijau</u>	<u>Siarkaki/Longkang</u>	66'-0"	40'-0"	2x6'-0"	2x7'0" / 3'0"	50'-0"	38'-0"	2x3'-0"	2x3'-0"	40'-0"	28'-0"	2x3'-0"	2x3'-0"				
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33	<i>Acceleration/Deceleration lane yang sesuai hendaklah dicadangkan dan dihubungkan dengan jalan sediaada dengan garis lengkung (curve) yang sesuai. Butir-butir bagi tanda-tanda jalan (Road Marking) untuk acceleration / deceleration lane tersebut hendaklah ditunjukkan di atas pelan.</i>																				
	To propose acceleration / deceleration lane to connect to the existing road. To indicate the details of road markings for the acceleration / deceleration lane.																				
	To specify the proposed drain details in layout - type of drain, width of drain, minimum brickwall/rubble wall height and drain gradient.																				
	50 ft Road Reserve with 10 ft width walkway on both sides & a 30 ft width carriageway / 40 ft Road Reserve with 6 ft width walkway on both sides & a 28 ft width carriageway / 25 ft Road Reserve without 5 ft width walkway (to maximise the road pavement).				<i>Mr. Tan of JKA informed that the DBKL's Rekabentuk dan Keratan Rentas Jalan-Jalan Di Kawasan Perumahan is not officially endorsed by JKA.</i>																
	Commercial Development Pavement Design :- 38mm thk premix wearing course 50mm thk binder course 230mm thk crusher run or wet mix macadam as specified 50mm thk sub-base on top of earth formation to be compacted to 95% of the maximum density (measured in accordance with BS 1377 1975 Test 12).																				
	To propose the upgrade of existing external roads and drains along the site boundary lines and to connect to the existing road and drainage system downstream. Drains to be 12" (300mm) HRGW or its equivalent to the existing drain type.																				
	To propose the drain within the road reserve to be 12" (300mm) HRGW																				
	To propose precast slab over the drain to form part of the walkway pavement. To propose unglazed homogeneous granite tiles (or its approved equivalent) on the precast slab and on the base course/subgrade.																				
	To propose m.s. grating at 6.0m c/c over the drain (alternate with precast slab) to cater for the surface run-off rainwater.																				
	No concrete planter box is allowed at the walkway within the road reserve																				

-	Minimum 900mm ϕ pipe culvert to allow access for maintenance - as per DBKL's requirement.			
-	To propose m.s. grating on top of drain. Detail to DBKL Standard Dwg No. JKAL/SP/0003/11.90 Syit 18. Incorporated into Dwg. No. 152-CVL-RD-28 as standard drawing.			
-	To propose MI Kerb detail to DBKL Standard Dwg No. JKAL/SP/0003/11.90 Syit 10. Incorporated into Dwg. No. 152-CVL-RD-24 as standard drawing.			<i>Incorporated 225mm dia. glazed ware pipe in the kerb outlet detail</i>
-	No carparking lines to be incorporated in the layout - Architect to submit the carpark proposal separately to Jabatan Pengangkutan Bandar.			
-	To indicate the width of the proposed road reserve / road width / walkway pavement - in the layout and road section			
-	To indicate the proposed drain connecting to the existing drain / sump at appropriate levels.			
-	To indicate (by hatch - lines) the extent of the PROPOSED ROAD TO BE SURRENDERED as indicated in the approved planning layout.			
-	To indicate (by hatch - dots) the extent of the UPGRADE OF EXISTING EXTERNAL ROAD (outside the site boundary).			
-	For case where the column is at the perimeter of the building and they are no apron, to take care that the perimeter pilecap may need to be lowered to avoid the drain			<i>This need to be taken care of at least before the issue of construction drawings. If possible, to indicate the level.</i>
-	Hanya cadangan saluran utama perlu diwarnakan merah. Cadangan sistem parit tepi jalan tidak perlu diwarnakan.			For 163 Main drain - JS&PS.
-	Inspection opening' 600mmx600mm dengan penutup 'grating' hendaklah ditempatkan di tepi box culvert dan dipasang 'cat ladder'			For 163 Main drain - JS&PS.
-	Sump untuk Maindrain hendaklah dari jenis 'reinforced concrete'.			For 163 Main drain - JS&PS.
-	The maximum depth of roadside drain is 1500mm (brickwork or rubble pitching). If drain capacity not enough, to increase the width.			For 154 RD - JPS Selangor (20000529)
-	The minimum width of roadside drain is 600mm.			For 154 RD - JPS Selangor (20000529)
-	No strut is allowed along the drain. Reason: take care of aesthetic value of town (as most of the contractor unable to construct the strut properly, in line and same size) and also prevent rubbish stuck in the drain.			For 154 RD - JPS Selangor (20000529)
	Minimum PIPE culvert sizes 750mm diameter.			For 154 RD - JPS Selangor (20000529)
	Minimum BOX culvert sizes 750mm depth x 750mm wide.			For 154 RD - JPS Selangor (20000529)
	As a good practise, for main access road for 100 feet near junction, the gradient $\leq 2\%$. Other place, $\leq 10\%$			
	As a good practise, if entrance (road) is higher than main road, than 'cattle trapdrain' need to be provided			
2	Road Section			
(a)	To indicate the proposed the road section to be symmetrical with the carriageway at the centre of road reserve.			
(b)	To indicate site boundary lines			
(c)	To indicate the width of the proposed road reserve / road width / walkway pavement - in the layout and road section			
(d)				
(e)				
(f)				
3	Drain Details			
(a)	half round salt glazed ware drain detail			
(b)	pipe culvert detail			
(c)	sump detail			

3	To stamp on all plans and reports (1) PE - Jurutera Profesional (Awam) seal and (2) JKA's piawai jabatan " I hereby certify that these works have been designed by me in accordance with sound engineering practice and that I take full responsibility for the design and proper performance of the same ".			
4	1 copy of Borang JKA 1 - Pihak Jurutera Perunding mengemukakan cadangan bagi kerja-kerja Kerja Tanah dan bertanggungjawab sepenuhnya ke atas segala rekabentuk dan perjalanan kerja-kerja tersebut. Pengesahkan dari Pihak Pemilik/Pemaju juga dikehendaki.			..\Standard Form 2227x7\Borang DBKL Submission 4427x7\Borang JKA 1.xls
	- Project Title			
	- Type of Works Submitted - Kerja Tanah / Jalan & Perparitan			
	- Plan Reference Numbers			
	- Engineer - Name, Address, PE Endorsement & Signature			
	- Owner/Developer - Name, Address, Signature & Name of Signatory			
5	1 copy of Borang JKA 3 - Pihak Jurutera Perunding mengesahkan perlantikan sebagai Jurutera Perunding yang bertanggungjawab bagi menyelia kerja-kerja pembinaan Kerja Tanah. Pengesahkan dari Pihak Pemilik/Pemaju juga dikehendaki.			..\Standard Form 2227x7\Borang DBKL Submission 4427x7\Borang JKA 3.xls
	- Project Title			
	- Type of Works Submitted - Kerja Tanah / Jalan & Perparitan			
	- Engineer - Name, Address, PE Endorsement & Signature			
	- Owner/Developer - Name, Address, Signature & Name of Signatory			
6	To write to the Architect for a copy of the Development Order (Surat Perintah Pembangunan) and the approved & endorsed Planning Layout (Pelan Tatatur/Tapak) as approved by Jabatan Perancang & Kawalan Bangunan.			
7	Two (2) sets of the PE endorsed Road & Drainage Report			..\Project Report 222487\152 Jalan Shelley\152_R&D Report.doc
8	Engineer's P.E. Endorsement - To arrange for Mr.Neo to P.E. endorse on the followings: -			
	- Road & Drainage Drawings			
	- Borang JKA 1 & 3			
	- Road & Drainage Report			
9	Owner/Developer's Endorsement - To write to Client for the Owner/Developer's endorsement on the followings: -			2=Design & Submission Stage_Sample Letter\2_1=Base=DBK_Letter to Client=Plans for Endorsement.doc
	- Road & Drainage Drawings			
	- Borang JKA 1 & 3			
10	No Processing Fee is required until the inspection stage.			
F	Checklist of Items - Submission to Jabatan Kerja Awam, DBKL			
1	Road & Drainage Submission Cover Letter			2=Design & Submission Stage_Sample Letter\2_2=Base=DBKL_Letter to Authority=Submission for Approval.doc

2	1 copy of Borang JKA 1 - Pihak Jurutera Perunding mengemukakan cadangan bagi kerja-kerja Kerja Tanah dan bertanggungjawab sepenuhnya ke atas segala rekabentuk dan perjalanan kerja-kerja tersebut. Pengesahkan dari Pihak Pemilik/Pemaju juga dikehendaki.			
3	1 copy of Borang JKA 3 - Pihak Jurutera Perunding mengesahkan perlantikan sebagai Jurutera Perunding yang bertanggungjawab bagi menyeliaikan kerja-kerja pembinaan Kerja Tanah. Pengesahkan dari Pihak Pemilik/Pemaju juga dikehendaki.			
4	1 copy of the Development Order (Surat Perintah Pembangunan yang berkaitan untuk keseluruhan pembangunan) as approved by Jabatan Perancang & Kawalan Bangunan. Authority will only process the submission when the planning layout has been approved.			As described in Section C. There is complication if project is divided into parcel and DO is only obtained for certain parcel only but submission is for whole. For DBKL case, special permission needs to be obtained from Planning Dept. (ref: 163. Approval can be obtained if there is no big complicaition on earthworks.)
5	1 copy of the approved & endorsed Planning Layout (Pelan Tatatur/Tapak) as approved by Jabatan Perancang & Kawalan Bangunan. Authority will only process the submission when the planning layout has been approved.			As described in Section C
6	Two (2) sets of the PE endorsed Road & Drainage Report			
7	Two (2) sets of the Road & Drainage Drawings			
G Follow-up With Authority				
1	Immediately upon submission, to inform the technical assistant / engineer-in-charge so. Normally, file is submitted to the admin who will then distribute to the relevant department for processing.			To ensure that they are aware that our proposal has been submitted for their comments/approval.
2	To follow-up with the authority 2 weeks after submission, and subsequently at a regular interval.			
3	To update the Status of Authority Follow-up file accordingly.			..\..\Status of Follow up 2422x4
4	If resubmission is required, to proceed accordingly.			
H Upon Approval -To Issue Road & Drainage Construction Drawings				
1	Upon confirmation by the authority, to arrange to collect from them the approval letter, endorsed plans and reports.			
2	To forward a copy of the approval letter to Client, Architect, QS and M&E consultants, attached to our cover letter.			
3	To file a copy of the approval letter each in the Correspondence File and in the Authority File. To update the Status of Follow up			
4	The original approval letter and endorsed plans and reports to be kept in the cabinet in Mr Neo's room.			
5	Admin will scan the contents of the approval letter and email to the engineer-in-charge.			
6	The engineer will incorporate the SYARAT-SYARAT KELULUSAN into a new drawing entitled "ROAD & DRAINAGE APPROVAL NOTES" with the last drawing number in the list. The date and reference of the approval letter to be stated.			A1 Plan, Scale 1:100

7	To check all the endorsed plans. To take note and incorporate all markings, if any, made by the Authority on the plans. To update the drawing files accordingly.				
8	All drawings in the Transition folder to be saved as =99 and =Approved so that they can be transferred to Project Drawing folder.				
9	Approved layout plan to be issued to Client, Architect, QS and M&E consultants for Construction. Full set of approved plans to be issued to Contractor for Construction.				
I To Monitor the Road & Drainage Construction at Site					
(a)	To inform JKA via Borang JKAL/4 giving four (4) days notice for the inspection of crusher run base course on all roads before premix.				To submit (1) Borang JKAL/4, (2) Two (2) sets of plans indicating the roads completed, (3) cheque payment of RM 300.00 inspection fee payable to Bendahari Bandaraya.
(b)	To inform JKA via Borang JKAL/4 giving four (4) days notice for the inspection of premixed wearing course.				
(c)	To make payment of RM 300.00 inspection fee via cheque/postal order/bank draft payable to Bendahari Bandaraya (for the inspection of crusher run base course)				
(d)	To submit Borang JKAL/5&6 upon the completion of all works for a final site inspection, prior to the issuance of Sijil Kelayakan.				To submit (1) Borang JKAL/5&6, (2) as-built transparencies
-	Authority Clearance is required for CF application				Formal process: Architect written to Majlis/Local Authority for CF. The relevant authority will write to individual department include JPP. We help to follow up. In practice, the client want the process to be expediate and may want to deal with JPP immediately after work completed.

N.A. for Not Applicable

To study and incorporate the comment from 163

Based on the discussion with En Ahmad Kamal of JKA, DBKL on 11 August, 1999 (Tel: 03-2916011 Ext.3606; 17th Floor DBKL):

1) Sesalinan Perintah Pembangunan yang berkaitan untuk keseluruhan pembangunan yang jelas dan sesalinan Pelan Tapak yang diluluskan oleh Jabatan Perancang & Kawalan Bangunan hendaklah dikemukakan. Sila maklum bahawa hanya kawasan di mana kelulusan perancangan telah diberi sahaja yang boleh dipertimbangkan oleh Jabatan ini.

We have submitted a copy of D.O. and approved layout plan. En Kamal said the D.O. is only for Parcel A although approval for layout plan for all parcels is obtained. Explained that for infra planning, the overall project site needs to be considered. En Kamal then discussed with his Boss, Ir Wan Mohd but insisted that D.O. for the remaining parcels must be attached together or must obtain a letter of confirmation from Jabatan Perancang & Kawalan Bangunan. Will speak to Ir Wan Mohd if we could insert a note in the layout stating that if the final D.O. approval affect our infra design, it would be our responsibility to inform the authorities and resubmit if required. Same for Earthworks Submission.

2) Cadangan utk kerja-kerja di dalam rezab parit/sungai dan lengungan saliran (sekiranya ada) hendaklah dirujuk untuk kelulusan Jabatan Pengairan.

Have already submitted to JS&PS, DBKL (File Ref: JSPS 15/99). To attach approval letter (if available).

3) Untuk kesemua jalan dan lebar rezab jalan 66'0" atau kurang, longkang tepi jalan hendaklah ditutup dengan precast r.c. slab. Have already complied.

4) Rekabentuk rezab jalan hendaklah mematuhi kehendak DBKL seperti berikut:-

Rezab Jalan	Lebar Jalan	Kawasan Hijau	Siarkaki/longkang
66'	40'	2 x 6'	2 x 7' ² / ₃ '
50'	38'	2 x 3'	2 x 3'
40'	28'	2 x 3'	2 x 3'

5) Acceleration/Deceleration lane yang sesuai hendaklah dicadangkan dan dihubungkan dengan jalan sedia ada dengan garis lengkung yang To provide two - one at entrance to Parcel A, B, C and another one at entrance to Parcel D.

6) Longkang tepi jalan hendaklah dibina di luar lot yang mana bersempadan dengan garis sempadan yang baru dan sistem perparitan yang Road side drains to be of HRGW.

**Checklist for Submission of Plans to JPS Selangor
 (last update: 11 March 1999)**

For Updated Checklist, Click Here =>

[\\NT98\Prj_Gen_222\Authority_222447\Standard Guidelines4447x7](#)

No.	Task	Action			Remarks
		Yes	No	N. A.	
1	Surat Hakmilik / Kelulusan Tukar Syarat				
2	Pelan Pertapakan yang diluluskan oleh JPBD				
3	Sumbangan Saliran (Bil.)				
4	Pelan kontor / ukur (Disahkan oleh Jurukur)				
5	Saluran Keluar Utama (dari tapak ke sungai/parit utama sediada):				
	(i) Pelan ukur saluran keluar (level, size, detail, etc)				
	(ii) Struktur sediada (level, size, detail, etc)				
	(iii) Kiraan hidrolik saluran keluar (capacity and upgrading)				
	(iv) Kiraan hidrolik struktur (capacity and upgrading)				
	(v) Surat kebenaran tuan tanah terlibat				
6	Kerjatanah:				
	(i) Pelan tapak kerjatanah (overall earthwork layout)				
	(ii) Aras tapak (platform level)				
	(iii) Cut & fill slopes outside boundary				
	(iv) Keratan rentas di tempat strategik (cut & fill slopes)				
	(v) Aras sediada dilot bersebelahan (drain, platform)				
	(vi) Drain at toe of slopes				
	(vii) Perangkap kelodak dan struktur berkaitan				
	(viii) Kiraan hidrolik untuk perangkap kelodak				
	(ix) Perimeter drains, dykes				
7	Parit Utama (dalam kawasan):				
	(i) Pelan tapak sistem saliran (overall drainage layout)				
	(ii) Keratan memanjang + platform level, Q100 profile, invert				
	(iii) Keratan rentas (typical X-section)				
	(iv) Infall & outfall structure				
	(v) Other structure: culvert, bridges, drops				
	(vi) Kiraan hidrolik untuk parit utama dan struktur lain				
8	Parit Dalam (Internal Drain):				
	(i) Pelan tapak sistem saliran (overall drainage layout) direction of flow, invert, type, gradient, culvert size, platform				
	(ii) Keratan memanjang + platform level, invert				
	(iii) Keratan rentas (typical X-section various drain)				
	(iv) Other structure detail: culvert, crossing, sump, cascade, outfall to main drain				
	(v) Kiraan hidrolik				
9	Kolam Takungan (Retention Pond):				
	(i) Luas seperti dalam pelan pertapakan yang diluluskan				
	(ii) Pelan tapak kolam takungan (+ platform, invert, size, access, maintenance path, trash-screen, desilting basin				
	(iii) Keratan rentas: slopes, platform, invert, max. water level				
	(iv) Inlet (+ weir,) & outlet structure (+ spillways)				
	(v) Kiraan hidrolik				
	(vi) Other detail: desilting basin, trash-screen, outfall structure				

N.A for Not applicable

JPS Negeri Selangor Guidelines

No.	Task	Action			Remarks
		Yes	No	N. A.	
	BUTIR-BUTIR YANG PERLU DITUNJUKKAN DALAM PELAN UKUR				<i>SURVEY PLAN</i>
1	Semua aras ukur hendaklah berdasarkan kepada aras Ordinance Datum Jabatan Ukur sebenar				
2	Bagi tanah curam atau berbukit, garisan kontor mestilah tidak lebih jarak 5 kaki				
3	Bagi tanah rata, titik aras (spot level) mestilah tidak melebihi jarak 50 kaki				
4	Pelan ukur mestilah menunjukkan semua 'feature' yang sedia ada di atas tanah seperti sungai, parit, kolam, jalan, pemetung dan lain-lain bangunan jika ada				
5	Ukuran dan aras sungai, parit, kolam, jalan, pemetung dan lain-lain mestilah ditunjukkan				
6	Pelan ukur mestilah disediakan dalam skil 1 inci : 1 rantai atau 1 inci : 2 rantai, mana yang sesuai				
7	Pelan ukur mestilah ditandatangani oleh Jurukur Tanah Berlesen				
8	Pelan ukur mestilah menunjukkan jajaran pengeluaran air dari (outlet) kawasan pembangunan hingga ke sungai / parit utama sedia ada				
	LAMPIRAN A - PELAN DAN BUTIR-BUTIR YANG DIPERLUKAN SEMASA MENGEMUKAKAN PELAN PERTAPAKAN UTUK PERTIMBANGAN				<i>PLANNING LAYOUT SUBMISSION</i>
1	Pelan Lokasi (location plan) skil 1 inci = 8 rantai yang menunjukkan lot atau lot-lot berkaitan, serta menunjukkan lot-lot sekelilingnya yang telah diberi kelulusan jika ada. Tunjukkan dengan teliti di atas pelan nombor syit, mukim dan daerah, skil dan arah utara (north point), jalan dan sungai.				
2	Pelan tadahan (catchment) skil 1:10,000 (atau 1:25,000) untuk menunjukkan tadahan yang terlibat dengan kawasan yang dipohon.				
3	Pelan kontor jarak maksima 5 kaki atau jarak yang kurang dari itu jika diperlukan, dalam skil 1 inci = 1 rantai / 2 rantai yang menunjukkan juga aliran parit/sungai/kolam dan lain-lain 'feature' yang sedia ada di dalam dan di sekitar kawasan.				
4	Pelan pertapakan (layout plan) skil 1 inci = 1 rantai / 2 rantai. Paras 'platform' yang dicadangkan serta kawasan yang diratakan atau dikambus hendaklah ditandakan dengan teliti.				
5	Pelan sistem saliran (drainage system) yang dicadangkan bagi kawasan dengan skil 1 inci = 1 rantai / 2 rantai, termasuk saluran keluar darinya ke sungai atau saluran utama. Ukuran dan paras bagi parit, pemetong, jambatan dan terjunan saliran (outfalls) hendaklah ditunjukkan. Jika saluran keluar yang dicadangkan dari kawasan ke sungai/saluran utama itu melalui tanah orang lain, surat kebenaran dari tuan-tuan tanah berkenaan hendaklah disertakan.				
6	Semua paras hendaklah berdasarkan kepada paras Ordinance Datum Jabatan Ukur.				
7	Kiraan hidrolik (hydraulic design calculation) bagi sistem saliran bagi kawasan dan saluran keluar dan binaan-binaan hidrolik (hydraulic structures) seperti tersebut dalam A5, berpandukan kepada 'Urban Drainage Design Standard and Procedures For Peninsular Malaysia - Planning and Design Procedures No 1' yang diterbitkan oleh Bahagian Pengairan dan Saliran - Kementerian Pertanian dan Pembangunan Luar Bandar, Malaysia.				
8	Kiraan hidrolik bagi sistem saliran di atas hendaklah disediakan dan ditandatangani oleh Jurutera Berdaftar (Professional Engineer).				

	LAMPIRAN B - PELAN DAN BUTIR YANG DIPERLUKAN SEMASA MENGEMUKAKAN PELAN PEMBANGUNAN BAGI JABATAN PENGAIRAN DAN SALIRAN NEGERI SELANGOR				<i>BUILDING PLAN SUBMISSION</i>
1	Pelan Pertapakan yang telah diluluskan oleh Jabatan Perancang Bandar & Desa Negeri Selangor.				
2	Resit bayaran sumbangan saliran bagi keseluruhan kawasan pembangunan.				
3	Pelan ukur / pelan kontor bagi kawasan pembangunan yang disahkan oleh Jurukur Berlesen.				
	A. PELAN KERJA TANAH				
	Pemohon adalah bertanggung jawab untuk mengambil semua langkah perlu bagi mencegah banjir dan hakisan tanah dikawasan yang dibangunkan. Pelan-pelan yang dikemukakan melalui pihak berkuasa tertentu kepada Jabatan Pengairan Dan Saliran Negeri Selangor hendaklah menunjukkan butir-butir berikut:				
a)	Cadangan perangkap kelodak (silt trap) lengkap dengan kiraannya mengikut "Urban Drainage Design Standards And Procedures for Peninsular Malaysia - Planning And Design Procedures No. 1".				
b)	Semua paras "platform" ditapak kerja yang dicadangkan termasuk kontor dan lain-lain "feature" yang sediada.				
c)	Butir kerja menggali dan mengambus tanah (cut and fill) termasuk keratan rentas (cross section) yang menunjukkan slop dan cerun yang dicadangkan.				
	B. PELAN SALIRAN				
a)	Pemohon bertanggungjawab bagi pembinaan sistem saliran dalam kawasan yang dimajukan, struktur-struktur hidrolik dan saluran keluar darinya ke sungai atau saluran utama yang dipersetujui oleh Jabatan Pengairan Dan Saliran Negeri Selangor termasuk membina pemetung dan lain-lain binaan yang diperlukan.				
b)	Seandainya tiada saluran keluar dari tapak yang dipohon itu, pemohon mestilah mencadangkan saluran keluar ke sungai atau parit utama yang sediada dan pemohon bertanggungjawab meminta kebenaran bertulis dari tuan tanah persendirian atau Pentadbir Tanah Daerah jika tanah kerajaan sekiranya saliran yang dicadangkan itu melalui tanah-tanah berkenaan.				
	C. PELAN-PELAN YANG DIKEMUKAKAN UNTUK PERTIMBANGKAN HENDAKLAH MENGANDUNGI DAN MENUNJUKKAN BUTIR-BUTIR BERIKUT:				
a)	Pelan lokasi (location plan) skil 1 inci: 8 rantai, menunjukkan lot-lot sekelilingnya yang telah diberi kelulusan jika ada. Tunjukkan dengan teliti Nombor Syit, Mukim, dan Daerah, skil dan arah utara (north point), jalan dan sungai.				
b)	Pelan Am (general plan) menunjukkan keseluruhan sistem saliran yang mengandungi butir-butir paras "invert", aras saliran, jenis parit dan saiz struktur-struktur hidrolik. Pelan hendaklah juga menunjukkan saluran keluar bagi sistem saliran kawasan berkenaan ke sungai atau parit utama.				
c)	Pelan menunjukkan rekabentuk parit utama yang dicadangkan termasuk struktur saluran keluar (outfall structure) ke sungai lengkap dengan keratan bujur dan memanjang (longitudinal and cross section).				
d)	Pelan menunjukkan susunan jambatan, pemetung dan butir-butir struktur hidrolik yang lain yang dicadangkan.				
e)	Kiraan hidrolik untuk parit infrastruktur, parit utama dan sungai hendaklah berpandukan kepada Urban Drainage Design Standards And Procedures For Peninsular Malaysia -Planning And Design Procedure No. 1 yang diterbitkan oleh Bahagian Pengairan dan Saliran, Kementerian Pertanian Dan Pembangunan Luar Bandar, Malaysia. Pelan hendaklah juga menunjukkan butir-butir kawasan tadahan bagi keseluruhan sistem saliran tersebut. Kiraan hidrolik juga dikehendaki bagi struktur-struktur seperti jambatan, pemetung, terjunan (drop) "bed control" dan lain-lain.				

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N.A for Not applicable

Standard Notes - to be incorporated into Road & Drainage Layout Plan

1)	All existing survey information is based on _____'s Survey Plan No. _____ dated _____
2)	All compaction shall be done as per specification.
3)	All levels shown are in metres.
4)	Any soft soil excavated at building area to be removed during the stripping of topsoil.
5)	The design and construction of earthwork to comply with the following Codes of Practice: -
	a) Site Investigation – BS 5930 : 1981
	b) Earthwork – BS 6031 : 1981
	c) Foundation – BS 8004 : 1986
	d) Undang-Undang Kecil Kerja Tanah (Wilayah Persekutuan Kuala Lumpur) 1988.
	e) The requirements of the Local Authority
6)	Trees shall not be fell before the commencement of earthwork.
7)	Safety fencing surrounding the site that is approved by the Local Authority to be constructed before the commencement of earthwork.
8)	The Contractor to ensure that the construction of earthwork will not cause any damage to the adjacent properties.
9)	The Contractor shall execute the works by such method or in such order that the existing drainage paths or other watercourses shall not be obstructed before the construction of the temporary diversion works.
10)	The site shall be cleared of all existing buildings and man-made features that obstruct the construction works of the building.
11)	The finished level of the proposed roads and platform levels are such that they will permit connection of roads to adjoining existing or future roads.
12)	No ponding will occur as a result of the proposed earthworks.
13)	No encroachment into adjacent lot will occur.
14)	Maximum cut slope is 1:1 and fill slope is 1:1.5. All slopes to be closely turfed upon completion of the slope construction. Berms and cut-off drains to be proposed for slope higher than 15 feet.
15)	Maximum gradient for the proposed roads permitted is 1:10.
16)	Temporary earthdrain to be provided to trap surface run-off into silt trap and finally discharged into the existing drain. The exact location of temporary earthdrain to be adjusted in accordance to the sequence of works carried out by the Contractor.
17)	Temporary silt trap to be provided to store sediment from erodible areas in order to protect the downstream existing drainage from excessive siltation; and to be removed upon completion of the earthwork construction. The exact location of temporary silt trap to be determined on site.
18)	Wash trough to be provided for washing the tyres of all lorries leaving the construction site in order to ensure that the tyres are properly cleaned off mud. The exact location of the wash trough to be at the exit of the site.
19)	Heavy-duty interlocking concrete paving block to be provided at the entrance/exit of the construction site. Details to DBKL Standard Dwg. No. JKA/SP/0026 /01-96.