

ANNEX A

OVERALL BPPS PIPELINE ROUTE

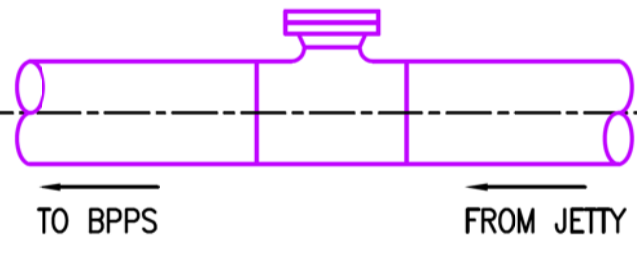
PROPOSED 30" BPPS PIPELINE ROUTE				
ROUTE INTRUDES INTO THE RESTRICTED ZONES				
BOUNDARY LIMIT	KP	CO-ORDINATES (m) - HK 1980 GRID SYSTEM		LOCATION
		EASTING (E)	NORTHING (N)	
BL1	13.414	802436.003	804897.180	ROUNDBOUT BOUNDARY LIMIT
BL2	15.962	800787.539	806780.310	ROUNDBOUT BOUNDARY LIMIT
BL3	25.458	802942.492	815478.689	PROPOSED HKLR BOUNDARY LIMIT
BL4	25.638	802992.428	815651.624	PROPOSED HKLR CENTER BOUNDARY LIMIT
BL5	25.818	803042.363	815824.559	PROPOSED HKLR BOUNDARY LIMIT
BL6	26.530	803239.915	816508.706	MARINE PARK BOUNDARY LIMIT
BL7	38.115	804745.673	827892.165	MARINE PARK BOUNDARY LIMIT
BL8	42.018	806188.754	831136.068	URMSTON ROAD CHANNEL BOUNDARY LIMIT
BL9	42.620	806762.746	831316.275	URMSTON ROAD CHANNEL BOUNDARY LIMIT

PIPELINE ROUTE DATA					
LOCATION	KP	CO-ORDINATES (m) - HK 1980 GRID SYSTEM		GRID AZIMUTH	TURNING RADIUS (m)
		EASTING (E)	NORTHING (N)		
TIE-IN POINT	0.000	814153.302	802064.769	233°46'50"	-
PC1	0.178	814009.439	801959.403	-	-
IP1	-	813656.750	801701.090	-	1800
PT1	1.036	813224.866	801633.327	-	-
PC2	1.939	812333.246	801493.430	261°04'58"	-
IP2	-	812257.400	801481.530	-	1800
PT2	2.092	812182.842	801463.215	-	-
PC3	2.891	811406.620	801272.531	256°11'54"	-
IP3	-	811332.080	801254.220	-	1800
PT3	3.045	811259.370	801229.630	-	-
PC4	3.948	810404.120	800940.390	251°18'53"	-
IP4	-	810331.410	800915.800	-	1800
PT4	4.101	810256.871	800897.489	-	-
PC5	5.346	809047.675	800600.442	256°11'54"	-
IP5	-	808198.470	800391.830	-	1800
PT5	6.974	807509.578	800930.436	-	-
PC6	14.264	801766.983	805420.249	308°01'11"	-
IP6	-	800902.180	806096.390	-	3000
PT6	16.368	800678.007	807171.005	-	-
PC7	18.455	800251.893	809213.655	348°13'00"	-
IP7	-	800065.640	810106.490	-	3000
PT7	20.226	800407.849	810951.911	-	-
PC8	21.555	800906.605	812184.078	22°02'14"	-
IP8	-	801059.600	812562.050	-	3000
PT8	22.366	801307.930	812885.474	-	-
PC9	24.130	802382.176	814284.567	37°31'03"	-
IP9	-	802727.580	814734.420	-	3000
PT9	25.251	802884.923	815279.319	-	-
PC10	31.367	804581.839	821155.975	16°06'23"	-
IP10	-	804689.096	821527.423	-	3000
PT10	32.136	804698.673	821913.928	-	-
PC11	34.459	804756.205	824235.828	01°25'10"	-
IP11	-	804757.244	824277.779	-	3000
PT11	34.543	804757.110	824319.743	-	-
PC12	39.430	804741.464	829206.936	359°49'00"	-
IP12	-	804736.747	830680.204	-	2000
PT12	41.970	806142.376	831121.507	-	-
PC13	42.776	806911.763	831363.059	72°34'12"	-
IP13	-	807753.830	831627.430	-	2000
PT13	44.439	808516.683	831183.555	-	-
TIE-IN POINT (TOE OF SEA WALL)	44.987	808991.190	830907.458	120°11'36"	-

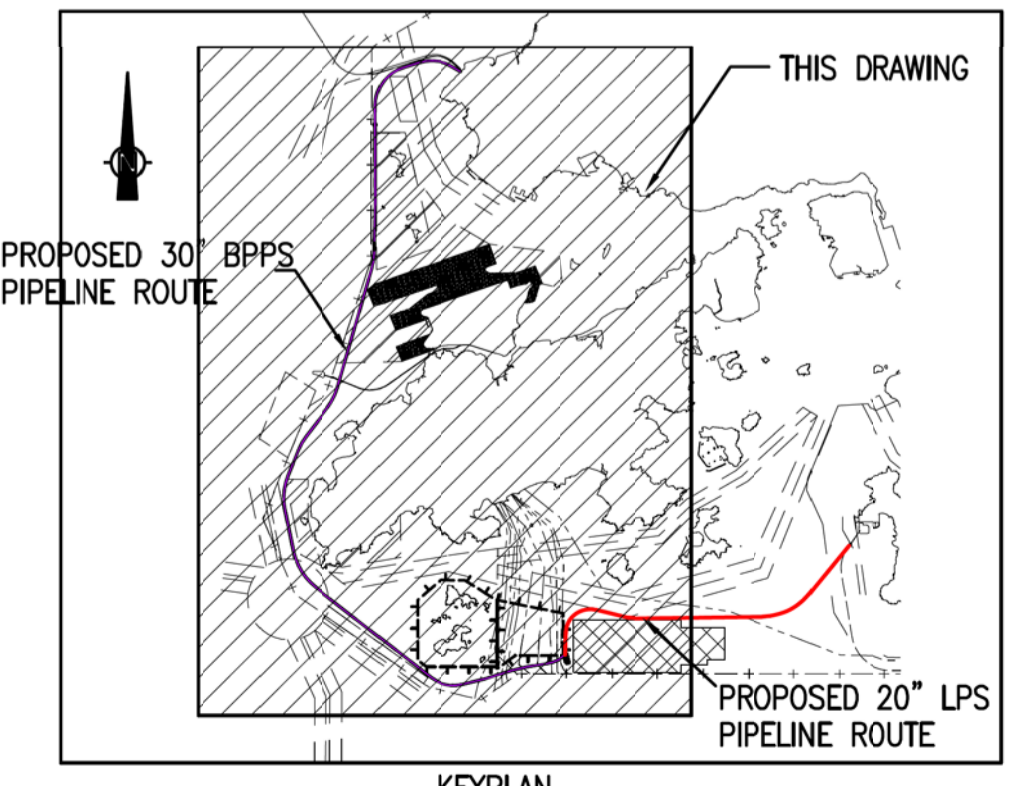
CROSSING LOCATIONS					
CROSSING LABEL	CROSSING DESCRIPTION	CROSSING ANGLE (°)	KP	CO-ORDINATES (m) - HK 1980 GRID SYSTEM	
				EASTING (E)	NORTHING (N)
CR10	FLAG-SEG-P1	55	0.262	813940.442	801911.304
CR9	APCN-SEG-B17 (OUT OF SERVICE)	66	0.519	813717.383	801785.303
CR8	AAG-SEG-2	77	0.816	813439.748	801680.655
CR7	FLAG-SEG-N	61	1.492	812774.281	801562.629
CR6	APCN-SEG-B8 (OUT OF SERVICE)	57	2.243	812036.539	801427.274
CR2	FNAL-SEG-DC	58	2.746	811547.948	801307.249
CR5	APCN2-SEG-S3	56	3.102	811205.298	801211.343
CR4	AAG-SEG-11	64	3.326	810992.847	801139.494
CR3	APCN2-SEG-S2	61	3.553	810778.007	801066.836
CR1	FNAL-SEG-E	52	4.429	809938.071	800819.174

PROPOSED TIE-IN POINT (TOE OF SEA WALL)
N 830907.458m
E 808991.190m
KP 44.987

PROPOSED FUTURE TIE-IN
SEE DETAIL 'A'
N 828276.815m
E 804744.443m
KP 38.500



SCALE(A1) 1:55000



- NOTES**
- ALL COORDINATES AND DIMENSIONS ARE IN METRES. THE COORDINATES ARE REFERENCED TO HONG KONG 1980 GRID SYSTEM.
 - PROPOSED PIPELINE TIE-IN POINT AT JETTY (MD1) IS AT THE ADJOINING PIPE JOINT TO THE TIE-IN SPOOL END.
 - FOR FSRO GAZETTE AREA ALONG THE PROPOSED PIPELINE ROUTE, REFER TO BPPS PIPELINE ALIGNMENT SHEETS.
 - CROSSING LOCATION SHOWN IN TABLE IS BASED ON CABLE DETECTED DATA FROM EGS SURVEY, HK242716 AND HK242718.
 - PIPELINE BEARINGS ARE MEASURED CLOCKWISE FROM NORTH TO PIPELINE FLOW DIRECTION.

- LEGEND**
- PROPOSED 30" BPPS PIPELINE ROUTE
 - PROPOSED 20" LPS PIPELINE ROUTE
 - SHIPPING CHANNEL
 - BOUNDARY OF HONG KONG SPECIAL ADMINISTRATIVE REGION
 - PROPOSED MARINE PARK
 - EXISTING SUBMARINE CABLE
 - EXISTING PIPELINE
 - IDENTIFIED MARINE PARK

- BPPS BLACK POINT POWER STATION
- BL BOUNDARY LIMIT
- CR CROSSING
- E EASTING
- FSRO FORESHORE AND SEA-BED (RECLAMATIONS) ORDINANCE
- HKZMB HONG KONG-ZHUHAI-MACAO BRIDGE
- IP INTERSECTION POINT
- KP KILOMETRE POST
- LPS LAMMA POWER STATION
- MD MOORING DOLPHIN
- N NORTHING
- PC POINT OF CURVATURE
- PT POINT OF TANGENCY
- R RADIUS
- 3RS THREE-RUNWAY SYSTEM

REFERENCE DOCUMENTS	
D 14AUG20	Issued for Design
C1 25JUL20	Issued for Review
C 25MAR20	Issued for Review
B 12MAR20	Internally Approved
A 03MAR20	Discipline Internal Check

CLIENT				JOB No.	
CuiSM		Offshore Oil Engineering Co., Ltd.		202B-DD02	
SIGNATURE				DATE	
CuiSM		14AUG20		PROJECT: HONG KONG OFFSHORE LNG TERMINAL PROJECT PACKAGE B	
DESIGNED				CERTIF. No. A112002816	
CHECKED				DRAWING TITLE: BPPS PIPELINE OVERALL ROUTE LAYOUT DRAWING	
REVIEWED				DWG. No. HKOLNG-CO0EC-11EKA-MTA010-0201	
EXAMINED				REV. D	
APPROVED					