
	Contractor	Direct-Field Resources Sdn. Bhd	
	SOW Ref	B12 - OSP Construction & Commissioning	
	LRD	MAXIS SITE RELOCATION KTAR-RAKI	
	Subject	Fiber Technical Proposal	



Region	Eastern		
KV/OKV	OKV		
Point A	KTAR	Point B	RAKI
Address	Bulatan Baharu Pantai Teluk Ketapang, Jalan Tengku Ampuan Bariah - Kuala Terengganu Airport		
Point A	5.370289,103.111217		
Point B	5.3754317,103.1051466		
Structure Owner	MAXIS		

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Section 1: Proposal Sign-off Sheet

This proposal contains the civil design proposal for [MAXIS SITE RELOCATING Bulatan Baharu Pantai Teluk Ketapang, Jalan Tengku Ampuan Bariah - Kuala](#)

All the information presented complies with Maxis Outside Plan technical specifications

- Last Mile Telecommunication Systems Design and Survey (GLD/T)
- GLD/CATE/002 (Outside Plant Design and Build Guideline)
- OSPE GLD/TNE/003 (Horizontal Directional Drilling Procedure & Guidelines)
- OSPE GLD/TNE/004 (Road Reinstatement Work Guideline)

The proposed construction methodologies, materials and Bill of Materials are as follows:

Direct-Field Resources Sdn. Bhd

Name: Sulaiman

Designation: Project Manager

Signature: _____

Check & Approved by: _____

Signature: _____

Submission Date: _____

Maxis OSP Detail Design

Name: Zulkefli Bin Zabri

Designation: _____

Signature: _____

Approval Date: _____



DN
a Terengganu Airport

ecification & guidelines:
(NE/005)

: Guideline)

erified to be correct.



Section 2: Outside Plant Civil Infra Design Summary

Overall proposed OSP Civil Infrastructure Design Distance	1804	meter
a. Horizontal directional drilling	505	meter
b. Carriage way open cut trenching	1293	meter
c. Grass verge open cut trenching	N/A	meter
d. Micro Trenching (mt)	N/A	meter
e. Maxis Pole	N/A	meter
f. Cable trunking	N/A	meter
g. GI Pipes Crossing/Riser	6	meter
h. Cable Ladder/ Tray	N/A	meter
i. Duct GI	N/A	meter

IIP trunking/riser length	N/A	meter
IIP cable length from Maxis fiber tapping point to new termination point at building/cabin	N/A	meter
No. of proposed manhole	8	pc
No. of proposed JB30	N/A	pc
Area of miling work required	N/A	meter

Local council & authority approval requirement		meter
a.		meter
b.		meter
c.		meter

Estimated Cost of the Scheme/Project	#REF!	RM
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Type of building:	
Address:	Bulatan Baharu Pantai Teluk Ketapang, Jalan Tengku Ampuan Bariah - Kuala Terengganu Airport
Contact person:	
Contact no.:	



Existing Infrastructure Information

Preceding duct/sub-duct space	TBD during implementation
Preceding duct/sub-duct condition	TBD during implementation
Existing cable/fiber condition	TBD during implementation
Existing sites power & space	N/A

Tenaga Pole Option

TNB pole availability	N/A
Distance of the TNB poles	N/A
Constraint	N/A

Other Highlights/Remarks

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SLA

Date Survey Triggered

Survey Done (Days)	TP Submission (Days)
3	14

Implementation

Method	Distance (m)	CW (Days)
Underground	50	61
MH	50	FALSE
Total	100	61

Date TP Submission	17/Jan/00
Date CW Completed	21/Mar/00



Section 3

Vicinity Map





maxis. Maxis Broadband (Malaysia) Sdn. Bhd

LEVEL 21, MENARA MAXIS
KUALA LUMPUR CITY CENTER,
50088 KUALA LUMPUR,
MALAYSIA

TITLE :

LOCATION PLAN FOR MAXIS SITE
RELOCATION AT BULATAN BAHARU
PANTAI TELUK KETAPANG THROUGH
JALAN TENGGU AMPUAN BARIAH TO
KUALA TEREANGANU AIRPORT

PREPARE BY : Mohd Nur Hafiz

DESIGNED BY : NEK

JOB NO :

CHECKED BY : ZULKEFLI

DATE : 05/2024

FILE :

APPROVED BY : ZULKEFLI

SHEET NO : 1 OF 1

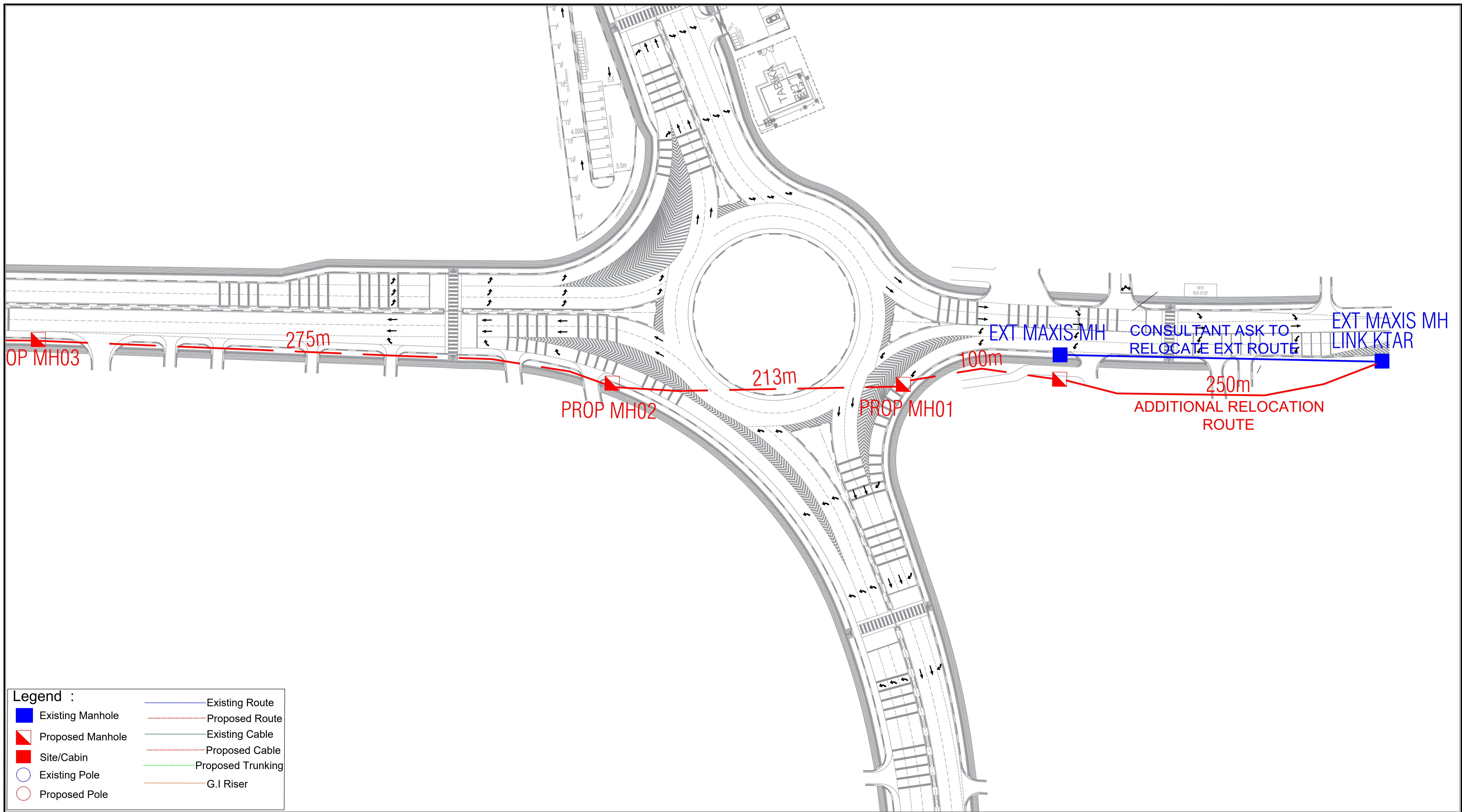
REV :



Section 4

Civil Infrastructure Route Plan & Permit Boundary





Legend :	
	Existing Manhole
	Proposed Manhole
	Site/Cabin
	Existing Pole
	Proposed Pole
	Existing Route
	Proposed Route
	Existing Cable
	Proposed Cable
	Proposed Trunking
	G.I Riser

maxis. Maxis Broadband (Malaysia) Sdn.Bhd

LEVEL 21, MENARA MAXIS
KUALA LUMPUR CITY CENTER,
50088 KUALA LUMPUR,
MALAYSIA

TITLE :
PROPOSED CIVIL ROUTE PLAN FOR MAXIS
SITE RELOCATION AT BULATAN BAHARU
PANTAI TELUK KETAPANG THROUGH
JALAN TENGGU AMPUAN BARIAH TO
KUALA TERENGGANU AIRPORT

PREPARE BY : Direct-Field Resources Sdn. Bhd

DESIGNED BY : NIK KHAIRUL

JOB NO :

CHECKED BY : ZULKEFLI

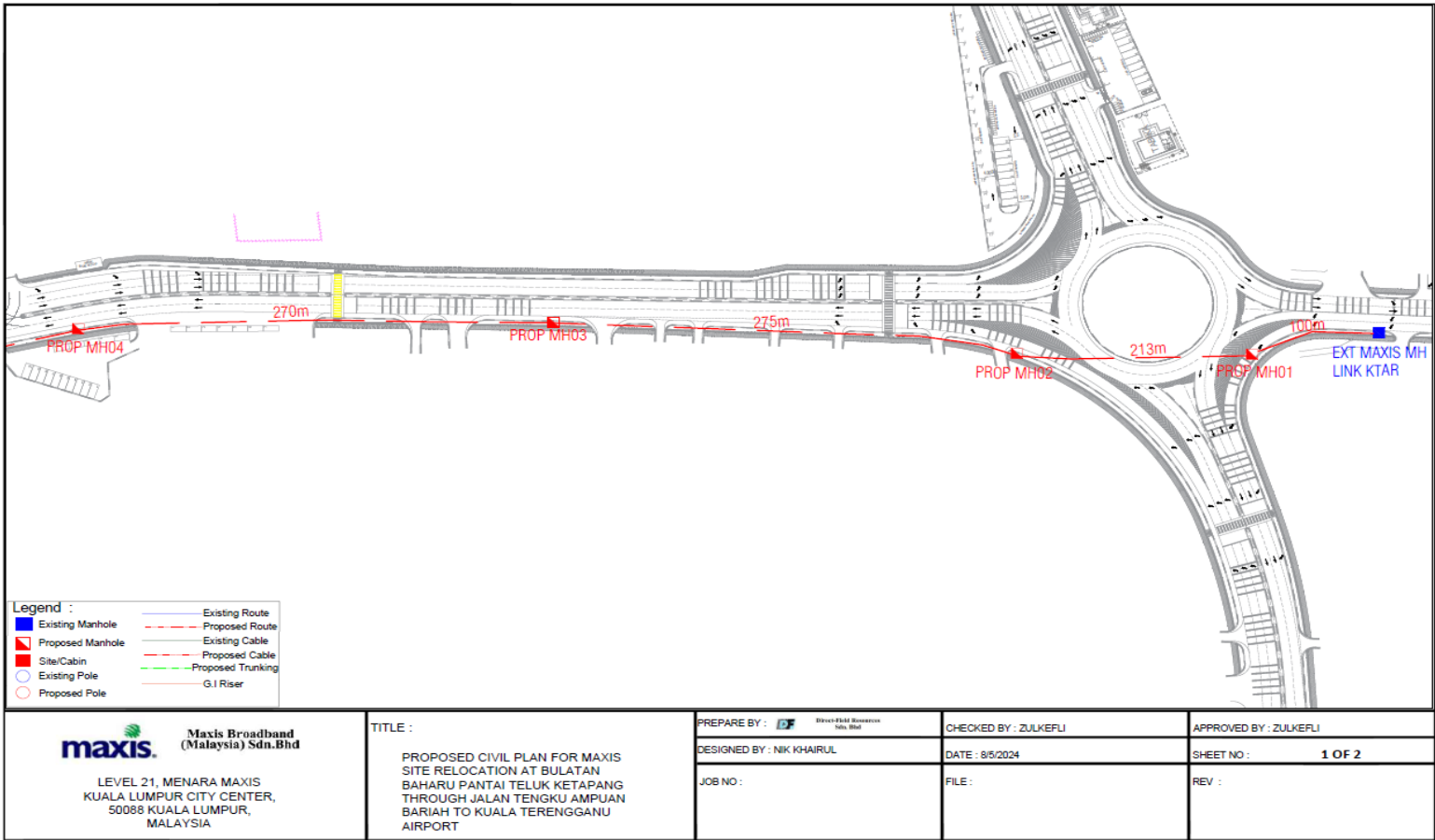
DATE : 8/5/2024

FILE :

APPROVED BY : ZULKEFLI

SHEET NO : **1 OF 2**

REV :



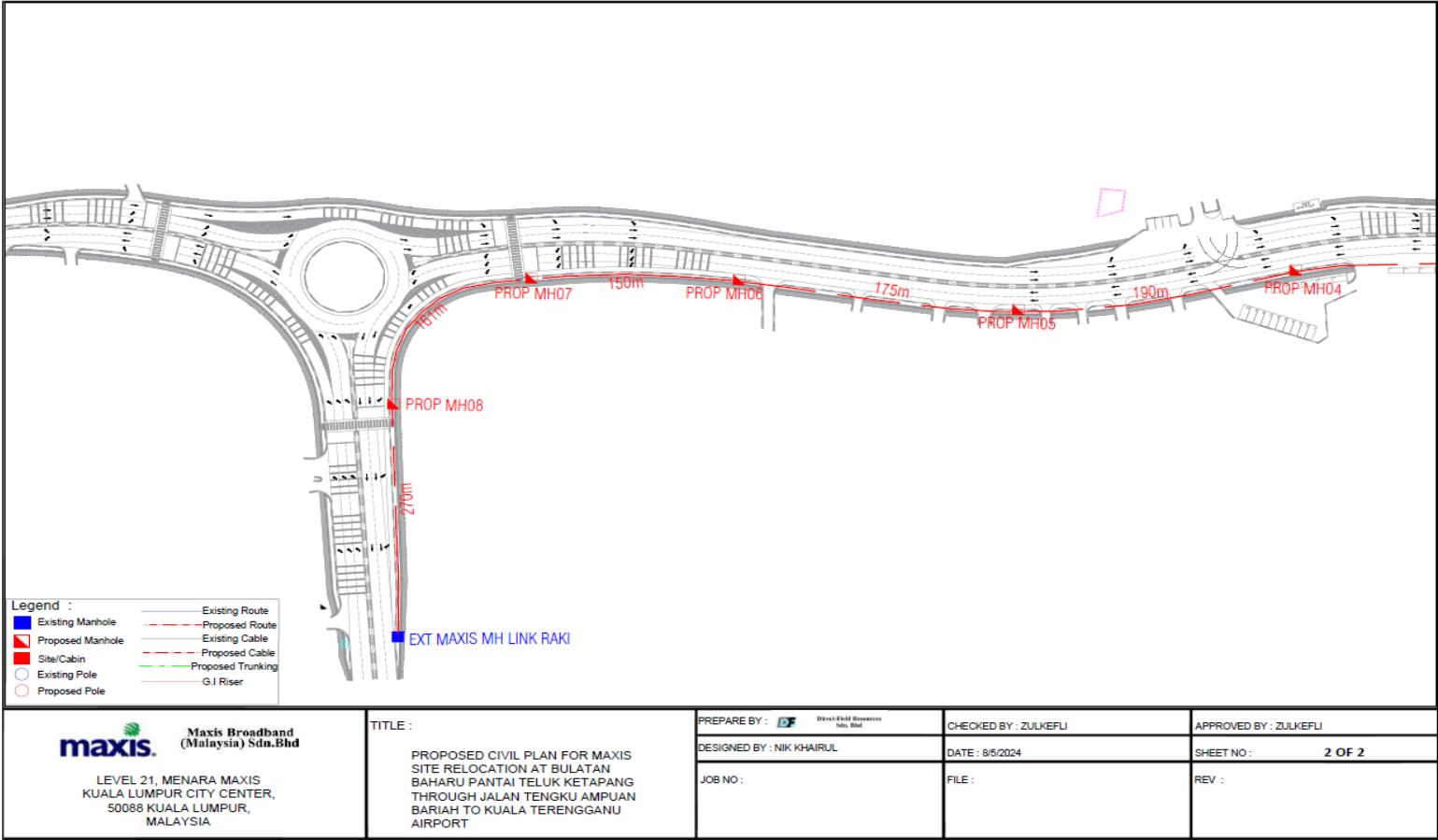
maxis. Maxis Broadband (Malaysia) Sdn.Bhd
 LEVEL 21, MENARA MAXIS
 KUALA LUMPUR CITY CENTER,
 50088 KUALA LUMPUR,
 MALAYSIA

TITLE :
 PROPOSED CIVIL PLAN FOR MAXIS
 SITE RELOCATION AT BULATAN
 BAHARU PANTAI TELUK KETAPANG
 THROUGH JALAN TENGGU AMPUAN
 BARIAH TO KUALA TERENGGANU
 AIRPORT

PREPARE BY : [Signature] Maxis Broadband (Malaysia) Sdn.Bhd
DESIGNED BY : NIK KHAIRUL
JOB NO :

CHECKED BY : ZULKEFLI
DATE : 8/5/2024
FILE :

APPROVED BY : ZULKEFLI
SHEET NO : 1 OF 2
REV :



maxis. Maxis Broadband (Malaysia) Sdn.Bhd
LEVEL 21, MENARA MAXIS
KUALA LUMPUR CITY CENTER,
50088 KUALA LUMPUR,
MALAYSIA

TITLE :
PROPOSED CIVIL PLAN FOR MAXIS
SITE RELOCATION AT BULATAN
BAHARU PANTAI TELUK KETAPANG
THROUGH JALAN TENGGU AMPUAN
BARIAH TO KUALA TERENGGANU
AIRPORT

PREPARE BY : Direct Field Resources M/s. Bhd
DESIGNED BY : NIK KHAIRUL
JOB NO :

CHECKED BY : ZULKEFLI
DATE : 8/5/2024
FILE :

APPROVED BY : ZULKEFLI
SHEET NO : 2 OF 2
REV :



Section 5: Proposed Manhole GPS Coordinate

Structure A	Structure B	Lat. A (Dec)	Long. A (Dec)
EXT MAXIS MH01	PROP MH01	5.370289	103.111217
PROP MH01	PROP MH02	5.370595	103.110862
PROP MH02	PROP MH03	5.371339	103.110524
PROP MH03	PROP MH04	5.37303	103.109361
PROP MH04	PROP MH05	5.374505	103.107928
PROP MH05	PROP MH06	5.374943	103.107677
PROP MH06	PROP MH07	5.375379	103.107376
PROP MH07	PROP MH08	5.376173	103.106824
PROP MH08	EXT MAXIS MH02	5.375854	103.105703
EXT MAXIS MH02		5.3754317	103.1051466



Section 6: Outside Plant Site Snapshot





Proposed 1way 213m
from prop MH01 to prop MH02

PROP MH01
LAT: 5.370595,
LONG : 103.110862



24/Apr 2024 15:39:19
355° N

Jalan Tengku Ampuan Bariah
Kuala Terengganu
Terengganu
Altitude: 9.2m
Speed: 0.0km/h
Index number: 487



Proposed 1way 275m
from prop MH02 to prop MH03

PROP MH02
LAT: 5.371339,
LONG : 103.110524



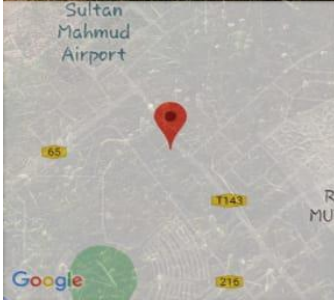
24 Apr 2024 15:44:35
327° NW
6a Jalan Tengku Ampuan Bariah
TAMAN PINGGIRAN AIRPORT
Kuala Terengganu
Terengganu
Altitude:16.7m
Speed:0.0km/h
Index number: 488



PROP MH03
LAT: 5.37303,
LONG : 103.109361

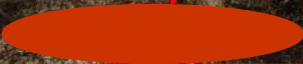
24 Apr 2024 15:50:35
322° NW

18402 Jalan Lapangan Terbang
Kuala Terengganu
Terengganu
Altitude: 13.2m
Speed: 0.0km/h
Index number: 489

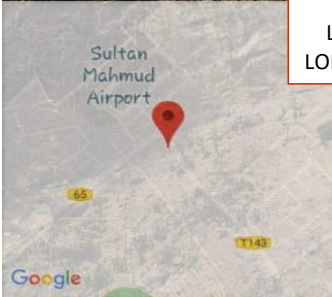




Proposed 1way 190m
from prop MH04 to prop MH05



PROP MH04
LAT: 5.374505,
LONG : 103.107928



24 Apr 2024 15:58:57
317° NW
Kampung Telaga Batin
Kuala Terengganu
Terengganu
Altitude:8.2m
Speed:0.0km/h
Index number: 490



Proposed 1way 190m
from prop MH04 to prop MH05

PROP MH05
LAT: 5.374943,
LONG: 103.107677

24 Apr 2024, 16:05:10
63° NE

5 Jalan Lapangan Terbang
Taman Seri Bayu
Kuala Terengganu
Terengganu
Altitude: 14.8m
Speed: 0.0km/h
Index number: 491



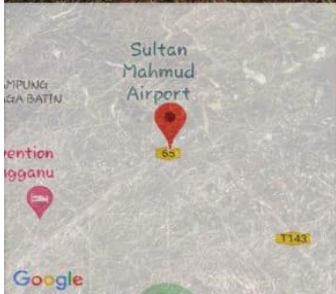


Proposed 1way 175m
from prop MH05 to prop MH06

PROP MH05
LAT: 5.374943,
LONG: 103.107677

24 Apr 2024 16:05:45
229° SW

1 Jalan Lapangan Terbang
Kampung Telaga Batin
Kuala Terengganu
Terengganu
Altitude: 18.3m
Speed: 0.0km/h
Index number: 492





Maxis Confidential



DRO NO:	Checked By:
PR NO:	Checked By:

LRD	RELOCATION KTAR-RAKI	Project
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GL Code:	(Pls Specify)
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Region	<input type="checkbox"/> Central	<input type="checkbox"/> Norther
--------	----------------------------------	----------------------------------

Contractor <i>(pls attach relevant approved form)</i>	<input type="checkbox"/> Dynamic (56001470_OSP)
	<input type="checkbox"/> Forward Res (OA_OSP)
	<input type="checkbox"/> Naxus Communication (O/
	<input checked="" type="checkbox"/> Others (Contractor to fill in
	SAI/SPR No: _____
EWF No: _____	

Scope of Works (SoW)	<input type="checkbox"/> B1-PropCon	<input type="checkbox"/> B8-E1 Im
	<input type="checkbox"/> B2-GSM,AFS	<input type="checkbox"/> B9-VSA1
	<input type="checkbox"/> B3-IBC Cov	<input type="checkbox"/> B10-3G I
	<input type="checkbox"/> B4-Com. Pwr	<input type="checkbox"/> B11-TOC
	<input type="checkbox"/> B5-Asset	<input checked="" type="checkbox"/> B12-OSP
	<input type="checkbox"/> B6-Solar	<input type="checkbox"/> B13-G/SI
	<input type="checkbox"/> B7-E1 Opti	<input type="checkbox"/> B14-TOC

Job Completed Yes <input type="checkbox"/>	Proposed Start Date:
<i>(Pls attach justification/ EWF for Job Completed works)</i>	

Std items	
LVP	
NSI >5K	
Total Quotation Amount	

Scope of Work	Engineering/Planner
Confirmed By:	Signature

Budget Review By:	Budget Cost Management (QS)
-------------------	-----------------------------

Budget Available <input type="checkbox"/>	Signature
Top Up Required <input type="checkbox"/>	

Approved By: <i>AM : Up to 100K</i> <i>Manager : Up to 300K</i> <i>Senior Manager: Above 300K</i>	Implementation
	Signature

Remarks: (e.g: replacement of which DRO, what causes of abnormal cost compared to standard, etc)	
--	--

Date:	Time:
Date:	Time:

Code

n Southern East n East sia

perTell (OA_OSP)

SCM (OA_OSP)

A_OSP) \$ era Utama (OA_OSP)

i)DFRSB(OA-OSP)

SU No:	<input type="text"/>
VRF No:	<input type="text"/>

p	<input type="checkbox"/> M1-R/Top	<input type="checkbox"/> M9-HT&LV	<input type="checkbox"/> M17-M-Trfc
r	<input type="checkbox"/> M2-Optic	<input type="checkbox"/> M10-Fire-E	<input type="checkbox"/> M18-V-Rmt
Jpg	<input type="checkbox"/> M3-ME/CStr	<input type="checkbox"/> M11-Sec-C	<input type="checkbox"/> M19-POTS
-S	<input type="checkbox"/> M4-Test-E	<input type="checkbox"/> M12-CCTV	<input type="checkbox"/> M20-DCPwr
	<input type="checkbox"/> M5-SurgeSS	<input type="checkbox"/> M13-Accs	<input type="checkbox"/> M22-BSCSec
ET	<input type="checkbox"/> M6-UPS Sys	<input type="checkbox"/> M14-Sec-MG	<input type="checkbox"/> M23-BTSPiR
C	<input type="checkbox"/> M7-A/CondS	<input type="checkbox"/> M15-EAS	<input type="checkbox"/> M24-G/set
	<input type="checkbox"/> M8-A/CondH	<input type="checkbox"/> M16-TPM	<input type="checkbox"/> M-LogPrice

Completion date:

QUOTATION SUMMARY

RM 0.00

Name:

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DIRECT-FIELD RESOURCES SDN BHD (357479-A)

No 21, Jalan TPP 1/1, Tmn Industri Puchong

Batu 12, 47160 Puchong, Selangor

Tel : 03-8060 8905 , Fax : 03-8060 8906 , Email : directfrsb@df

Project Code		: RELOCATION (Interim)FOR KT AIRPORT , KUALA TERENGGANU	BOQ date
Project Name			Start Date
Project Type			Complete Date
NO	MM	JOB DESCRIPTION	SOW
		OSP	
1	20059771	OPS,WORK,NEW BUILD,MOBILIZATION	
2	20059752	osp, e2e new fiber infra, S & I 1w,UG	
3	20005842	Cable, Fibre, 1C splicing	
4	60010646	closure 144c	
6	60010735	cable,fiber,optic,144 core ,underground	
8	20045118	Design,detailed,infra, <2km,civil	
DIRECT-FIELD RESOURCES SDN BHD			MAXIS BROADBAI
Checked By			Reviewed By
Name Designation Date			



sb.com

	:11.05.2024		
	:		
	:		
UOM	UNIT RATE	QUANTITY	TOTAL
EA	5,335.00	1.00	5,335.00
m	80.75	1,804.00	145,673.00
C	15.36	288.00	4,423.68
Ea	778.05	1.00	778.05
m	9.18	196.00	1,799.28
KM	1,626.21	1.00	1,626.21
			159,635.22
ND SDN BHD			
		Approved By	
		Name Designation	
		Date	