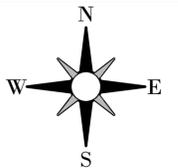


ITEM No.	DRAWING No.	DRAWING TITLE
1	C1546-00	LIST OF DRAWINGS
2	C1546-01	GENERAL SITE PLAN SHEET 1 OF 2
3	C1546-02	GENERAL SITE PLAN SHEET 2 OF 2
4	C1546-03	WATER LAYOUT
5	C1546-04	WATER DETAIL
6	C1546-05	SEWER LAYOUT
7	C1546-06	SEWER LONGITUDINAL SECTIONS SHEET 1
8	C1546-07	SEWER LONGITUDINAL SECTIONS SHEET 2
9	C1546-08	SEWER DETAILS SHEET 1
10	C1546-09	SEWER DETAILS SHEET 2
11	C1546-10	PACKAGE TREATMENT PLANT AND SIGNAL HOUSE

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No.	DATE	AMENDMENT	D.P.W.

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cad file name: Autocad page type: A 1



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BMK
CONSULTING ENGINEERS
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Pinewood Office Park Fax : (011) 234 0146
Woodmead, 2191 Email: admin@bmkgroup.co.za

discipline: CIVIL
service:
PAFURI LAND PORT OF ENTRY:
RELOCATION OF WET SERVICES
TO MAKE WAY FOR THE SOLAR
POWER PANEL PROJECT

Approved by Design Leader
NAME: T. RAMJOGI
PR. TECH.ENG
REG NO:2021200997 

WCS number: 052476

drawing title:

LIST OF DRAWINGS

ref.no. designed TT MPHLOANE
scale 1:1 000 drawn H MALUWA
date JUNE 2023 checked T RAMJOGI

DPW drawing number

C1546/00



GENERAL SITE PLAN
SCALE 1:1 000

LEGEND:

- CT COMMUNICATION TOWER
- TP TELEPHONE POLE
- WR WATER RESERVOIR/ELEVATED WATER TANK
- EXISTING FRENCH DRAIN
- MC/PH MOBILE HOME/PARK HOME
- NEW SOLAR PANEL FOOTPRINT
- SEWER MANHOLE
- CONSERVANCY TANK
- PUMP
- PACKAGE TREATMENT PLANT
- 110mm Ø SEWER PIPE
- EXISTING SEWER PIPE
- EXISTING LOCATION FOR PH1 & NEW LOCATION FOR PH2
- EXISTING SEPTIC TANK
- 1:200 OBSERVED FLOOD LEVEL
- 1:100 OBSERVED FLOOD LEVEL
- HC - HOUSE CONNECTION
- PACKAGE TREATMENT PLANT FOOTPRINT

SEPTIC TANK COORDINATES
WGS84 DATUM Lo 31°

SEPTIC TANK NAME	Y	X
S1	-32 118.336	2 483 444.865
S2	-32 151.440	2 483 441.184
S3	-32 182.794	2 483 446.141
S4	-32 214.480	2 483 458.651
S5	-32 219.745	2 483 529.896
S6	-32 217.814	2 483 436.107
S7	-32 246.326	2 483 465.799
S8	-32 323.618	2 483 465.799
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S10	-32 321.046	2 483 472.418
S11	-32 421.966	2 483 484.728
S12	-32 421.469	2 483 488.119
S13	-32 421.078	2 483 543.823
S14	-32 374.832	2 483 516.514
S15	-32 313.201	2 483 521.301
S16	-32 312.756	2 483 524.757

SITE BOUNDARY COORDINATES
WGS84 DATUM Lo 31°

POSITION	Y	X
A	-32 081.452	2 483 399.952
B	-32 129.739	2 483 406.472
C	-32 126.220	2 483 427.629
D	-32 251.302	2 483 445.469
E	-32 134.114	2 483 380.147
F	-32 259.198	2 483 397.987
G	-32 254.897	2 483 423.852
H	-32 464.961	2 483 453.298
I	-32 505.456	2 483 584.077
J	-32 401.540	2 483 571.154
K	-32 342.976	2 483 549.170
L	-32 201.347	2 483 529.481
M	-32 203.286	2 483 518.446
N	-32 067.506	2 483 498.951

BENCH MARK SETTING OUT COORDINATES
WGS84 DATUM Lo 31°

BENCH MARK	Y	X	Z
BM1	-32 111.681	2 483 504.578	202.921
BM2	-32 283.767	2 483 540.102	199.249
BM3	-32 502.479	2 483 576.761	196.267

TENDER PURPOSES ONLY

No.	DATE	AMENDMENT	D.P.W.

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Department: Public Works
REPUBLIC OF SOUTH AFRICA

<p>Consultant</p> <p>BMK CONSULTING ENGINEERS</p> <p>Office F10, 33 Riley Road Pinewood Office Park Woodmead, 2191</p> <p>discipline CIVIL</p> <p>service</p>	<p>Tel : (011) 234 0321 Fax : (011) 234 0146 Email: admin@bnkgroup.co.za</p>
---	--

PAFURI LAND PORT OF ENTRY: RELOCATION OF WET SERVICES TO MAKE WAY FOR THE SOLAR POWER PANEL PROJECT

Approved by Design Leader
NAME: T. RAMJOGI
 PR. TECH.ENG
 REG NO:2021200997

WCS number	052476
drawing title	GENERAL SITE PLAN (ORTHO PHOTO) SHEET 1 OF 2
ref. no.	designed TT MPHULOANE
scale 1:1 000	drawn H MALUWA
date JUNE 2023	checked T RAMJOGI
DPW drawing number	

C1546/01

NOTES :

A. GENERAL

1. ALL SETTING OUT TO BE UNDERTAKEN BY A REGISTERED PROFESSIONAL LAND SURVEYOR.
2. ALL WORK AREAS TO BE REINSTATED (PREMIX, CONCRETE, ETC.)
3. MUNICIPALITY TO EXECUTE ALL CONNECTIONS INTO MUNICIPAL LINES.
4. ALL LEVELS AND DIMENSIONS TO BE VERIFIED ON SITE.
5. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE STRUCTURAL ENGINEERING AND ARCHITECTURAL DRAWINGS.
6. CONTRACTOR TO PROVIDE AN AS-BUILT SURVEY OF ALL WORKS CONSTRUCTED UPON COMPLETION OF THE PROJECT.
7. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT SABS 1200 SPECIFICATIONS.
8. THE CONTRACTOR MUST GIVE THE ENGINEER 48 HOURS WRITTEN NOTICE OF INSPECTIONS PRIOR TO COVERING UP ANY WORKS.
9. THE CONTRACTOR MUST ARRANGE FOR CONTROL TESTING AT FREQUENCIES SPECIFIED IN THE RELEVANT SANS 1200 SPECIFICATIONS. COSTS FOR CONTROL TESTING WILL BE FOR THE CONTRACTORS ACCOUNT.
10. ONCE THE WORKS ARE SET OUT THE CONTRACTOR MUST CALL THE ENGINEER FOR INSPECTION PRIOR TO COMMENCING WITH CONSTRUCTION.
11. SHOULD THE CONTRACTOR DISCOVER ANY DISCREPANCIES IN THE DRAWINGS, THESE DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY. NO ASSUMPTIONS MUST BE MADE.
12. SHOULD THE CONTRACTOR WISH TO USE ANY MATERIALS OTHER THAN THOSE SPECIFIED, HE MUST OBTAIN WRITTEN APPROVAL FROM THE ENGINEER TO DO SO.
13. ANY DESIGN CHANGES DURING CONSTRUCTION MUST BE ISSUED UNDER SITE INSTRUCTION, AFTER APPROVAL BY THE PRINCIPAL AGENT
14. ALL BRICKS USED TO CONSTRUCT SEWER AND STORMWATER MANHOLES MUST BE NFX LOAD BEARING BRICKS CONFORMING TO SANS 1200 LD.
15. ALL EXISTING SERVICES TO BE PROVED PRIOR TO WORK COMMENCING. ANY EXISTING SERVICE THAT IS DAMAGED BY THE CONTRACTOR AND IS SHOWN ON THE CONSTRUCTION DRAWINGS OR INDICATED TO THE CONTRACTOR ON SITE BY THE ENGINEER, MUST BE REPAIRED BY THE CONTRACTOR AT HIS OWN COST.

NOTES

EARTHWORKS :

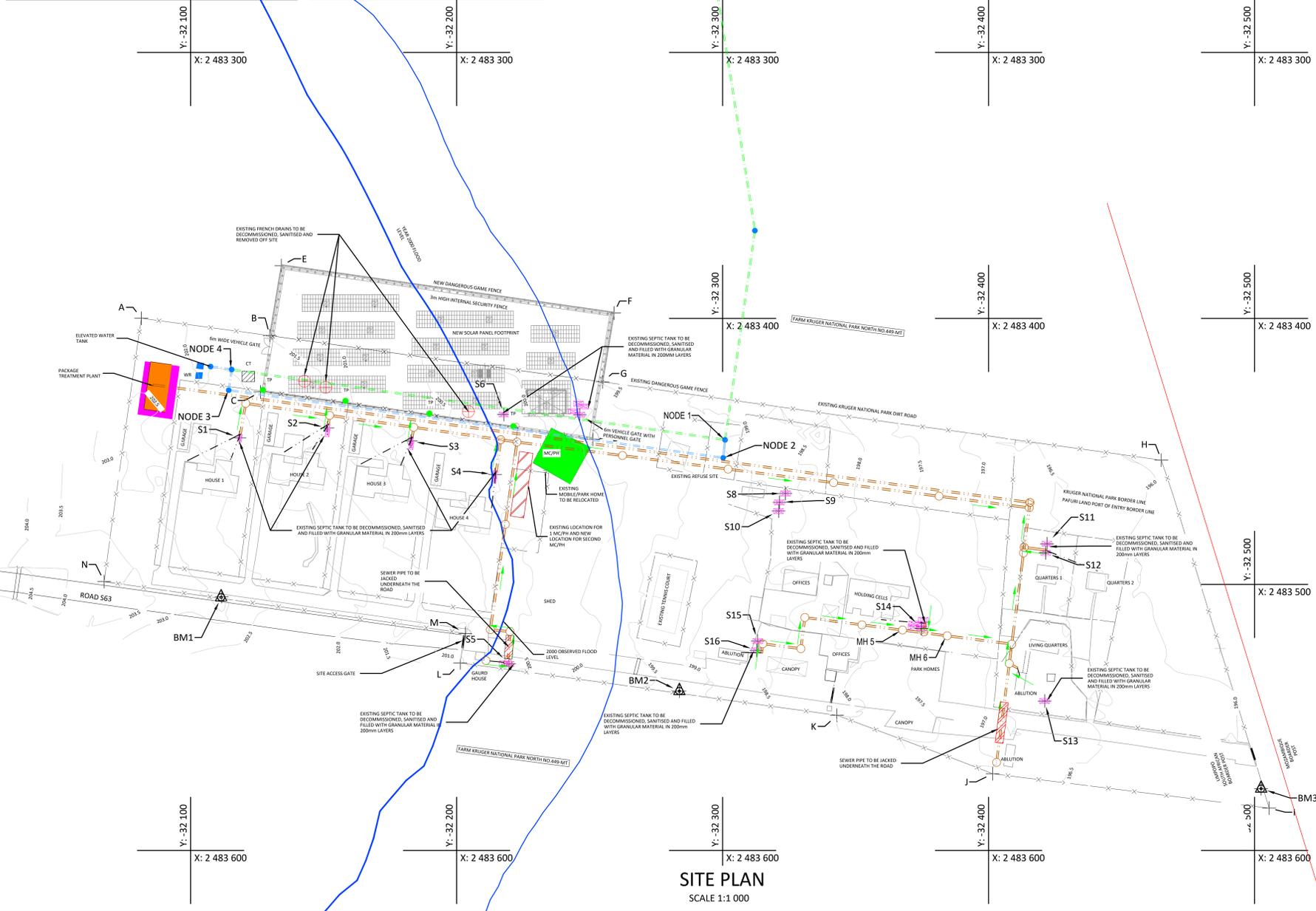
1. 100mm TOPSOIL TO BE STRIPPED AND STOCKPILED AS INSTRUCTED.
2. UNSUITABLE MATERIAL TO BE SPOILT AS INDICATED BY THE ENGINEER.
3. IN SITU MATERIAL TO BE COMPACTED TO 93% MOD. AASHTO DENSITY.
4. FILL TO BE COMPACTED IN MAX. 200mm THICKNESS TO 93% MOD. AASHTO DENSITY.
5. ALL BATTERS TO BE TOPSOILED WITH MATERIAL FROM STOCKPILE.

SEWER

1. ALL SEWER PIPES ARE 110mm NOMINAL DIAMETER CLASS 34 HEAVY DUTY UPVC PIPES.
2. ALL SEWER PIPES TO BE LAID ON CLASS B BEDDING.
3. ALL SEWER PIPES TO COMPLY WITH SANS 1601 STANDARDS.
4. ALL SEWER PIPES IN PARKING AREAS/ROAD CROSSING TO BE CONCRETE ENCASED 150mm ALL ROUND WITH 25MPa CONCRETE AT 28 DAYS STRENGTH.

WATER RETICULATION

1. BULK WATER MAIN : 50mm Ø uPVC CLASS 10
2. BEDDING TO SUIT FLEXIBLE PIPES.
3. PIPES TO BE INSTALLED WITH ALL COUPLINGS AND TO BE TESTED AND DISINFECTED.
4. INSTALLATION TO COMPLY WITH SANS 1200.
5. THRUST BLOCKS TO BE 25MPa CONCRETE AT 28 DAYS STRENGTH.
6. CONTRACTOR TO ENSURE THAT ALL INDIVIDUAL DOMESTIC SUPPLY WATER MAINS ARE CONNECTED TO THE POTABLE WATER RETICULATION AND NOT THE FIRE RETICULATION.
7. PRECAST MARKERS TO BE INSTALLED TO INDICATE TO THE RELEVANT UNDERGROUND SERVICES (WATER LINES, VALVES, FIRE LINES ETC.)
8. MINIMUM COVER TO BURIED PIPES SHALL BE 800mm, EXCEPT AT ROAD CROSSINGS WHERE THE COVER SHALL BE INCREASED TO 1000mm.



LEGEND:

- CT COMMUNICATION TOWER
- TP TELEPHONE POLE
- WR WATER RESERVOIR/ELEVATED WATER TANK
- EXISTING FRENCH DRAIN
- MC/PH MOBILE HOME/PARK HOME
- NEW SOLAR PANEL FOOTPRINT
- SEWER MANHOLE
- CONSERVANCY TANK
- PUMP
- PACKAGE TREATMENT PLANT
- 110mm Ø SEWER PIPE
- EXISTING SEWER PIPE
- EXISTING LOCATION FOR PH1 & NEW LOCATION FOR PH2
- EXISTING SEPTIC TANK
- 1:200 OBSERVED FLOOD LEVEL
- 1:100 OBSERVED FLOOD LEVEL
- HC - HOUSE CONNECTION
- PACKAGE TREATMENT PLANT FOOTPRINT

SEPTIC TANK COORDINATES
WGS84 DATUM Lo 31°

SEPTIC TANK NAME	Y	X
S1	-32 118.336	2 483 444.865
S2	-32 151.440	2 483 441.184
S3	-32 182.794	2 483 446.141
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S14	-32 374.832	2 483 516.514
S15	-32 313.201	2 483 521.301
S16	-32 312.756	2 483 524.757

SITE BOUNDARY COORDINATES
WGS84 DATUM Lo 31°

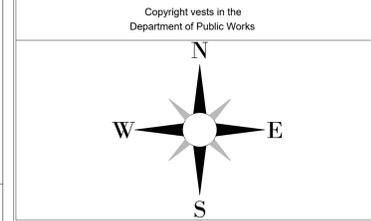
POSITION	Y	X
A	-32 081.452	2 483 399.952
B	-32 129.739	2 483 406.472
C	-32 126.220	2 483 427.629
D	-32 251.302	2 483 445.469
E	-32 134.114	2 483 380.147
F	-32 259.198	2 483 397.987
G	-32 254.897	2 483 423.852
H	-32 464.961	2 483 453.298
I	-32 505.456	2 483 584.077
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BENCH MARK SETTING OUT COORDINATES
WGS84 DATUM Lo 31°

BENCH MARK	Y	X	Z
BM1	-32 111.681	2 483 504.578	202.921
BM2	-32 283.767	2 483 540.102	199.249
BM3	-32 502.479	2 483 576.761	196.267

TENDER PURPOSES ONLY

No.	DATE	AMENDMENT	D.P.W.



cad file name: Autocad page type: A 1



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discipline: CIVIL

service
**PAFURI LAND PORT OF ENTRY:
RELOCATION OF WET SERVICES
TO MAKE WAY FOR THE SOLAR
POWER PANEL PROJECT**

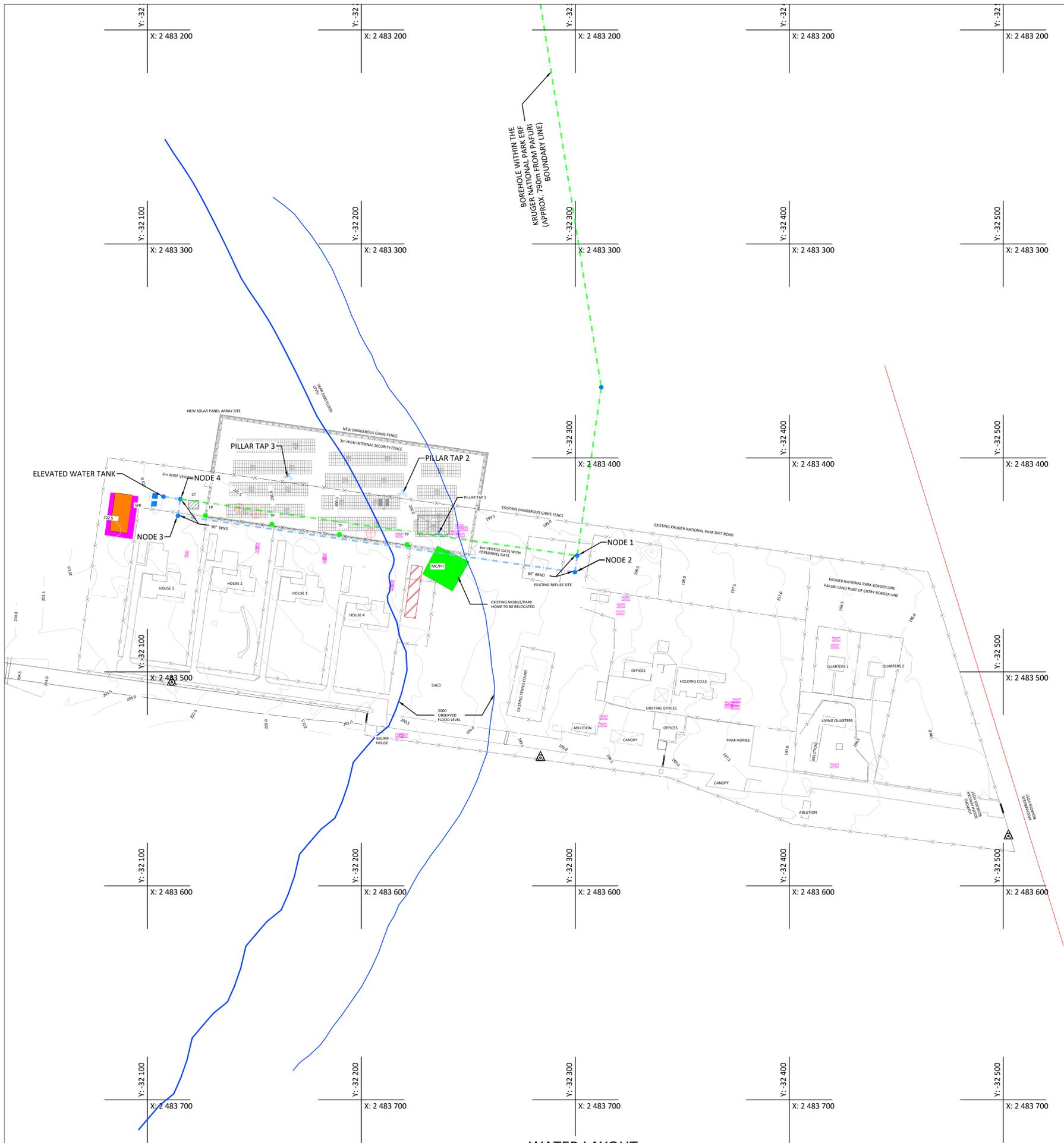
Approved by Design Leader
NAME: T. RAMJOGI
PR. TECH.ENG
REG NO:2021200997

WCS number: 052476

drawing title:
**GENERAL SITE PLAN
SHEET 2 OF 2**

ref. no. designed: TT MPHLOANE
scale: 1:1 000 drawn: H MALUWA
date: JUNE 2023 checked: T RAMJOGI
DPW drawing number

C1546/02



WATER LAYOUT
SCALE 1:1 000

LEGEND:

- CT ■ COMMUNICATION TOWER
- TP ● TELEPHONE POLE
- WR ■ WATER RESERVOIR/ELEVATED WATER TANK
- EXISTING FRENCH DRAIN ⊕
- MC/PH ■ MOBILE HOME/PARK HOME
- EXISTING 50mm Ø WATER LINE TO BE RELOCATED - - - - -
- NEW ALIGNMENT FOR 50mm Ø WATER LINE - - - - -
- NEW SOLAR PANEL FOOT PRINT
- EXISTING LOCATION FOR PH1 & NEW LOCATION FOR PH2
- EXISTING SEPTIC TANK
- 1:200 OBSERVED FLOOD LEVEL —
- 1:100 OBSERVED FLOOD LEVEL —
- NEW PILLAR TAP

STRUCTURE/NODE COORDINATES WGS84 DATUM Lo 31°		
STRUCTURE/NODE NAME	Y	X
ELEVATED WATER TANK	-32 107.511	2 483 418.083
EXISTING BOREHOLE	-32 192.939	2 482 615.708
NODE 1	-32 300.934	2 483 445.671
NODE 2	-32 299.832	2 483 453.401
NODE 3	-32 114.327	2 483 426.984
NODE 4	-32 115.435	2 483 419.213
PILLAR TAP 1	-32 235.727	2 483 435.818
PILLAR TAP 2	-32 219.216	2 483 416.832
PILLAR TAP 3	-32 165.522	2 483 409.174

NOTES :

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No.	DATE	AMENDMENT	D.P.W.

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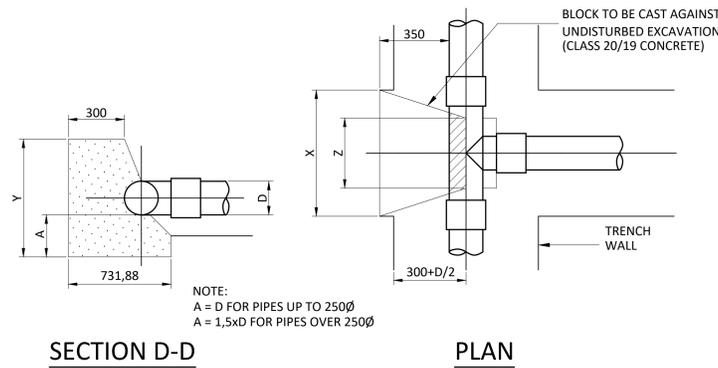
Office F10, 33 Riley Road Tel : (011) 234 0321
 Pinewood Office Park Fax : (011) 234 0146
 Woodmead, 2191 Email: admin@bmkgroup.co.za

discipline: CIVIL
 service: PAFURI LAND PORT OF ENTRY: RELOCATION OF WET SERVICES TO MAKE WAY FOR THE SOLAR POWER PANEL PROJECT

Approved by Design Leader
NAME: T. RAMJOGI
 PR. TECH.ENG
 REG NO:2021200997

WCS number: 052476
 drawing title: WATER LAYOUT
 ref. no. designed: TT MPHLOANE
 scale: 1:1 000 drawn: H MALUWA
 date: JUNE 2023 checked: T RAMJOGI
 DPW drawing number

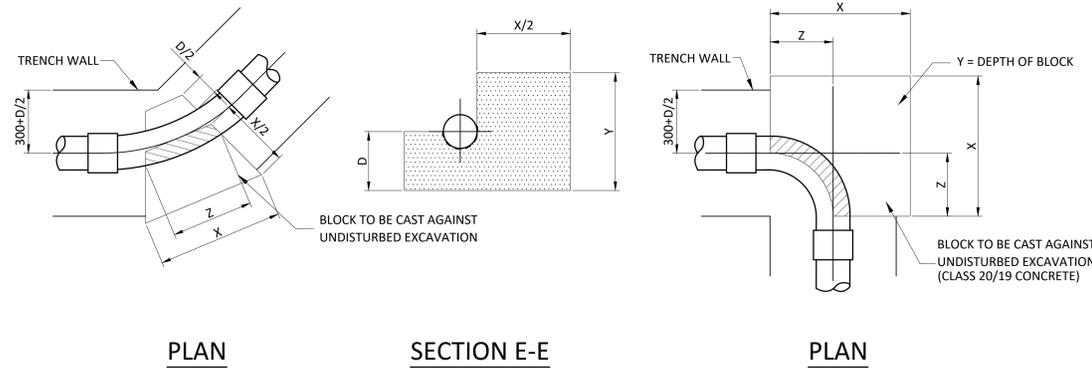
C1546/03



SECTION D-D

PLAN

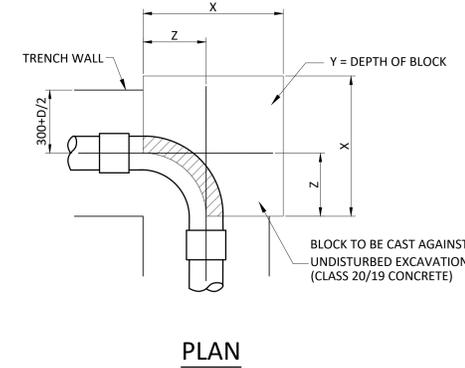
THRUST BLOCK DETAIL FOR TEE PIECE
SCALE 1:25



PLAN

SECTION E-E

THRUST BLOCK DETAIL FOR BENDS < 90°
SCALE 1:25



PLAN

THRUST BLOCK DETAIL FOR 90° BENDS
SCALE 1:25

THRUST BLOCK FOR TEE IN PRESSURE PIPELINES			
PIPE DIAMETER	X	Y	Z
75	500	300	100
150	520	300	250
200	625	400	400

THRUST BLOCK FOR 11,25° BENDS IN PRESSURE PIPELINES			
PIPE DIAMETER	X	Y	Z
75	500	300	100
150	610	300	115
200	610	400	150

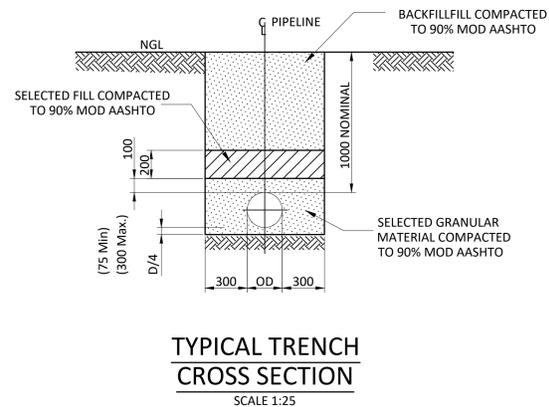
THRUST BLOCK FOR 22,5° BENDS IN PRESSURE PIPELINES			
PIPE DIAMETER	X	Y	Z
75	500	300	100
150	650	300	195
200	660	400	245

THRUST BLOCK FOR 45° BENDS IN PRESSURE PIPELINES			
PIPE DIAMETER	X	Y	Z
75	500	300	100
150	780	300	325
200	800	400	380

THRUST BLOCK FOR 90° BENDS IN PRESSURE PIPELINES			
PIPE DIAMETER	X	Y	Z
75	500	300	100
150	1000	600	400
200	1300	800	475

No.	DATE	AMENDMENT	D.P.W.

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TYPICAL TRENCH CROSS SECTION
SCALE 1:25

- NOTES :**
- GENERAL
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cad file name: Autocad page type: A 1

Client

Department: Public Works
REPUBLIC OF SOUTH AFRICA

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discipline: CIVIL

service

PAFURI LAND PORT OF ENTRY (LPOE): SUPPLY AND INSTALLATION OF SOLAR PANEL AND WATER FACILITY

Approved by Design Leader
NAME: T. RAMJOGI
PR. TECH.ENG
REG NO:2021200997

WCS number: 052476

drawing title: WATER DETAILS

ref.no.	designed	TT MPHLOANE	
scale	As-Shown	drawn	H MALUWA
date	JUNE 2023	checked	T RAMJOGI

DPW drawing number: C1546/04