



NOTES :

1. NO DIMENSIONS TO BE SCALED. ANY DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
2. TOPOGRAPHICAL SURVEY BY FRIEDLAENDER, BURGER & VOLKMAN OF FEBRUARY 2020.
3. SURVEY EXTENDED BY FRIEDLAENDER, BURGER & VOLKMAN OF MARCH 2021.
4. FINAL ARRANGEMENT OF BUILDING TO BE CONFIRMED BY ARCHITECT.
5. FINAL ARRANGEMENT OF EXTERNAL FINISHES AND LANDSCAPING TO BE CONFIRMED BY LANDSCAPE ARCHITECT.
6. EXISTING BULK SERVICES & NEW SERVICES CONNECTIONS TO BE EXPOSED AND VERIFIED PRIOR TO WORKS COMMENCING.

LEGEND

BUILDING AND FINISHED SURFACES

- NEW BUILDINGS SURFACE BED TO ENGINEER'S DETAIL
- CONCRETE SPLASHPAD FOR RW DOWNPIPE

PEDESTRIAN SPACE

- LOW WALLS
- BERA GRAVEL FIX PRO
- BERA GRAVEL FIX PRO

CAR PARK

- BERA GRAVEL FIX PRO ON 150mm THICK GS SUBBASE
- BERA GRASS FIX ECO ON 150mm THICK GS SUBBASE
- BELLMOUTH FINISH STILL TO BE CONFIRMED
- BRICK EDGING

LOW WALLS & FINISHES TO LANDSCAPE ARCHITECT'S DISCRETION & DETAILS

0 10 20 30 40 50 60 70 80 90

ON ORIGINAL (mm)

REV.	DESCRIPTION	DATE
D	BUFFER ZONES ADDED	03 FEB 2022
C	BERMS REVISED	26 MAR 2021
B	SURVEY UPDATED WITH 11kV O/H CABLE	17 MAR 2021
A	ISSUED FOR APPROVAL	04 MAR 2021

M&A

M. HURWORTH & ASSOCIATES CC

LANDSCAPE ARCHITECTS & ENVIRONMENTAL ENGINEERS

Environmental & Landscape Engineering

KENILWORTH STUDIO

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061 424 0044 (OFFICE)

061 424 0044 (FAX)

061 424 0044 (EMAIL)

061 424 0044 (WEB)

Reg. No.

Sign.

CLIENT: BOSCHENDAL ESTATE

PROJECT: BERTHA RETREAT PTN 11 OF FARM 1674

DRAWING TITLE: GENERAL ARRANGEMENT

THIS DRAWING IS TO BE USED FOR APPROVAL PURPOSES ONLY

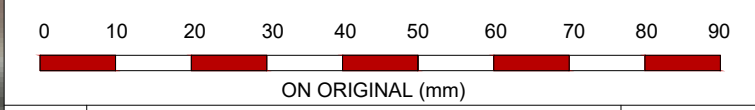
DRAWN	DATE	SCALE
GLYNIS	JANUARY 2021	A0 AT 1:300

JOB No	DRG No / CAD FILE	REVISION
C5960	C5960/03	D



LAYOUT PLAN
SCALE 1 : 1000

- NOTES :
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 2. TOPOGRAPHICAL SURVEY BY FRIEDLAENDER, BURGER & VOLKMAN OF FEBRUARY 2020.
 3. SURVEY EXTENDED BY FRIEDLAENDER, BURGER VOLKMAN OF MARCH 2021.
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REV.	DESCRIPTION	DATE
C	BUFFERS SHOWN	05 FEB 2022
B	BERMS REVISED	26 MAR 2021
A	ISSUED FOR INFORMATION	18 MAR 2021

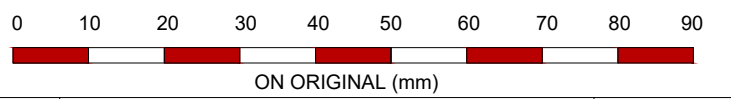
M&A M. HURWORTH & ASSOCIATES CC
REGISTERED CIVIL ENGINEERS
PROFESSIONAL ENGINEERING
REGISTERED IN THE REPUBLIC OF SOUTH AFRICA
PROVIDING ENGINEERING SERVICES
SINCE 1980
KENILWORTH STUDIO

Reg. No. _____
Sigsbee _____

CLIENT :	BERTHA FOUNDATION		
PROJECT :	BERTHA RETREAT PTN 11 OF FARM 1674		
DRAWING TITLE :	PROPOSED BULK WATER LINK		
THIS DRAWING IS TO BE USED FOR APPROVAL PURPOSES ONLY			
DRAWN GLYNIS	DATE JANUARY 2021	SCALE AS AT 1 : 1000	
JOB No C5960	DRG No / CAD FILE C5960/06	REVISION C	



- NOTES :
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B	BUFFERS SHOWN	03 FEB 2022
A	ISSUED FOR INFORMATION	08 OCT 2021
REV.	DESCRIPTION	DATE

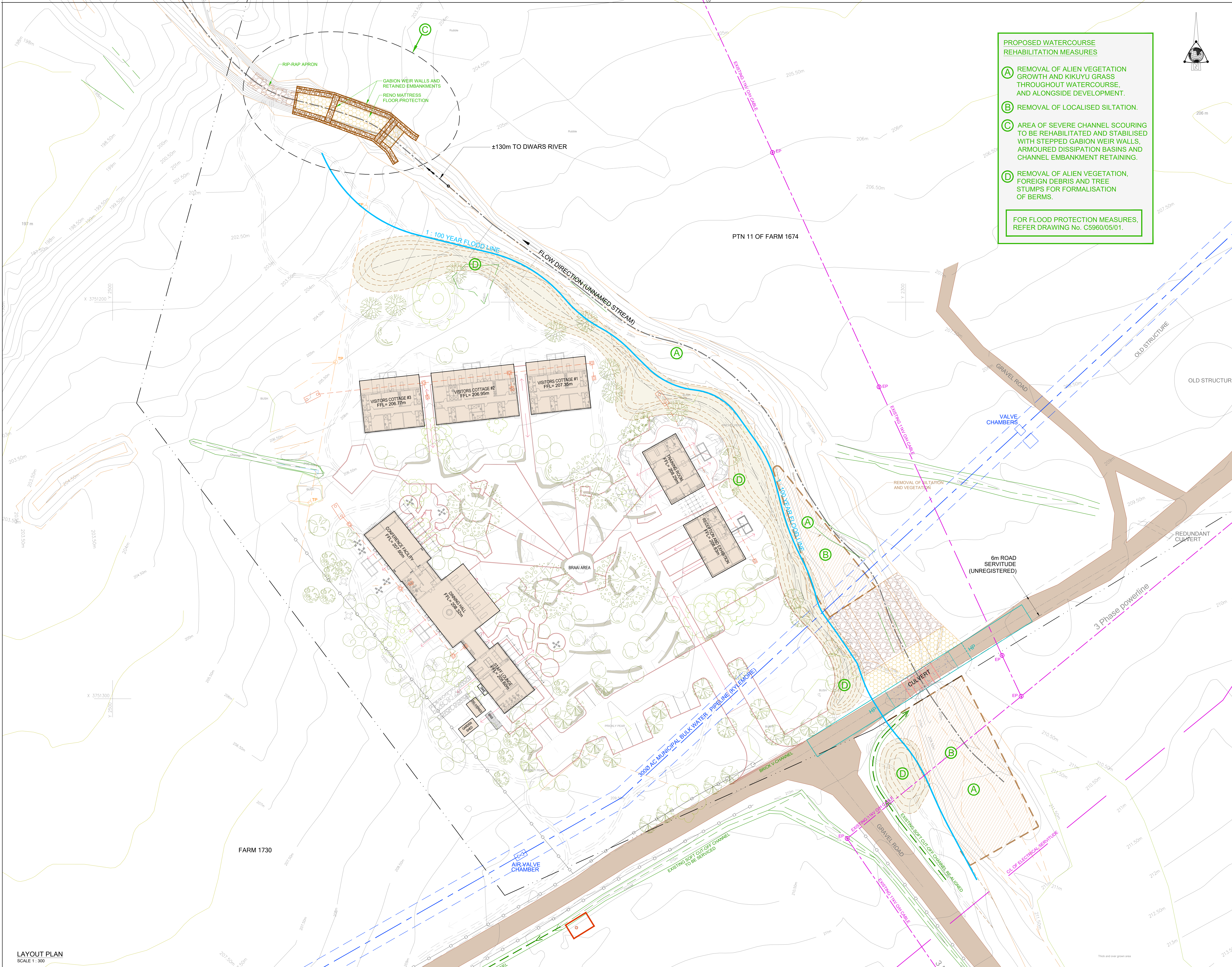
MH&A M. HURWORTH & ASSOCIATES cc
CONSULTING CIVIL AND STRUCTURAL ENGINEERS
PROJECT MANAGERS
Engagement through Engineering

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Email: admin@mh-a-engineers.co.za

Reg. No. _____
Sign: _____

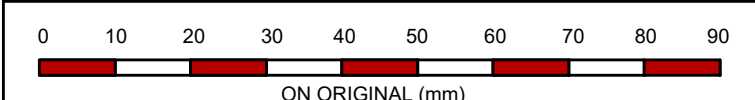
KENILWORTH STUDIO

CLIENT :	BERTHA FOUNDATION		
PROJECT :	BERTHA RETREAT PTN 11 OF FARM 1674		
DRAWING TITLE :	TEMPORARY MAIN WATER SUPPLY		
THIS DRAWING IS TO BE USED FOR INFORMATION PURPOSES ONLY			
DRAWN GLYNIS	DATE JANUARY 2021	SCALE A1 AT 1 : 500	
JOB NO C5960	DRG NO / CAD FILE C5960/07	REVISION B	



- PROPOSED WATERCOURSE REHABILITATION MEASURES**
- (A)** REMOVAL OF ALIEN VEGETATION GROWTH AND KIKUYU GRASS THROUGHOUT WATERCOURSE, AND ALONGSIDE DEVELOPMENT.
 - (B)** REMOVAL OF LOCALISED SILTATION.
 - (C)** AREA OF SEVERE CHANNEL SCOURING TO BE REHABILITATED AND STABILISED WITH STEPPED GABION WEIR WALLS, ARMoured DISSIPATION BASINS AND CHANNEL EMBANKMENT RETAINING.
 - (D)** REMOVAL OF ALIEN VEGETATION, FOREIGN DEBRIS AND TREE STUMPS FOR FORMALISATION OF BERMS.
- FOR FLOOD PROTECTION MEASURES, REFER DRAWING No. C5960/05/01.**

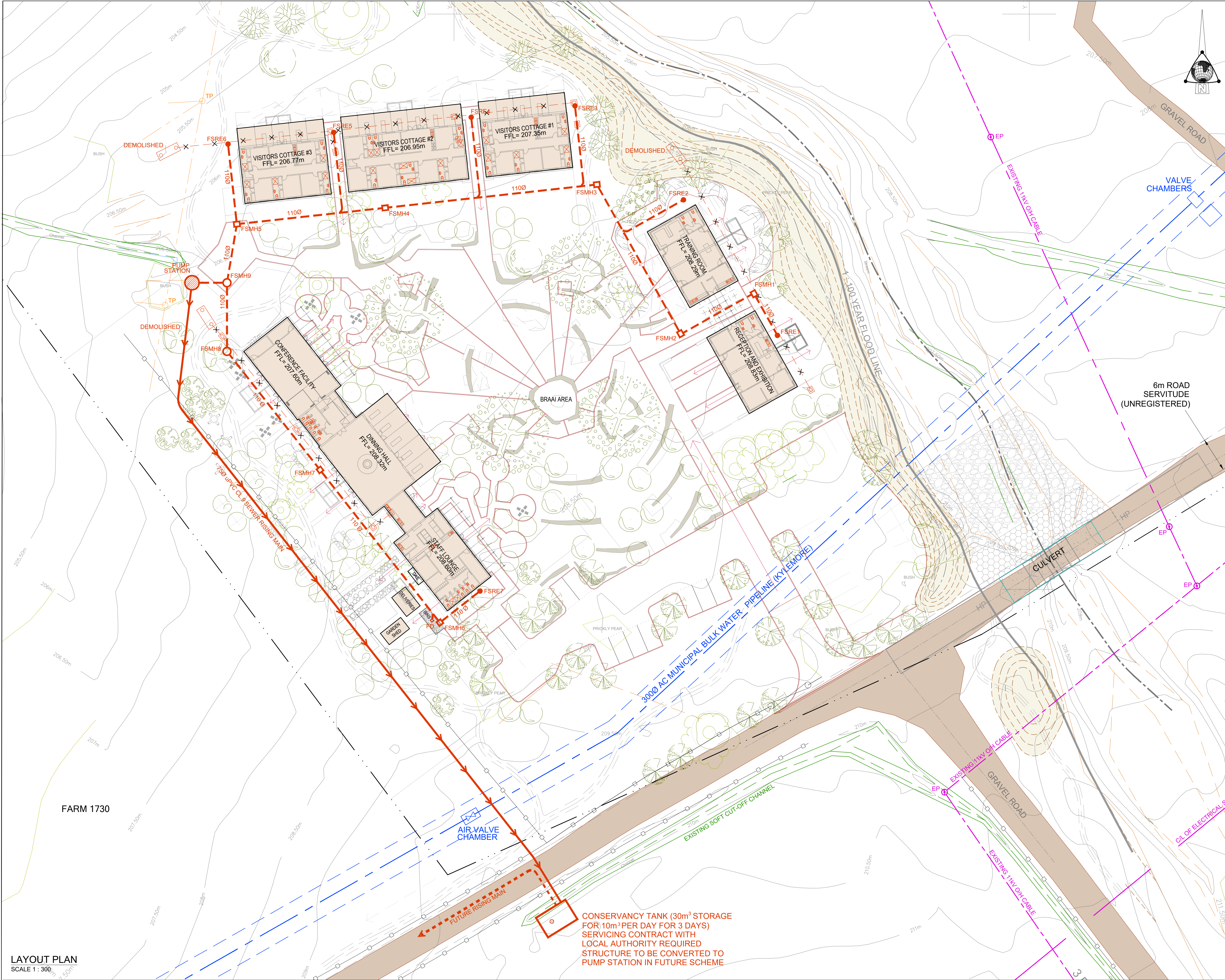
- NOTES :**
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REV.	DESCRIPTION	DATE
D	BERMS REVISED	26 MAR 2021
C	GABIONS ADDED & SURVEY UPDATED WITH HLV	19 MAR 2021
B	FINISH WORKS EXPANDED	10 MAR 2021
A	ISSUED FOR INFORMATION	



CLIENT:	BOSCHENDAL ESTATE
PROJECT:	BERTHA RETREAT PTN 11 OF FARM 1674
DRAWING TITLE:	WATERCOURSE REHABILITATION MEASURES
THIS DRAWING IS TO BE USED FOR INFORMATION PURPOSES ONLY	
DRAWN: GJVS	DATE: JANUARY 2021
JOB No: C5960	SCALE: AS AT 1:300
	REVISION: D



NOTES :

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LEGEND : EXISTING SERVICES

- EXISTING 3000 MUNICIPAL WATER PIPELINE
- FSMH - EXISTING SEWER PIPE AND BRICK MANHOLE
- EP - EXISTING ELECTRIC POLE
- EXISTING 11kV O/H CABLE
- CL OF ELECTRICAL SERVITUDE
- TP - TELEPHONE/ELECTRIC POLE
- O/H TELEPHONE/ELEC CABLE

LEGEND : PROPOSED SERVICES

FOUL SEWER

- EX. SEWER PIPE REMOVED & MANHOLE DEMOLISHED
- SEWER PIPE uPVC CL. 34
- FSMH - SEWER MANHOLE (PC RINGS)
- FSMH - SEWER MANHOLE (BRICKWORK, 450x600 INT.)
- FSRE - SEWER RODDING EYE
- FD - FLOOR DRAIN WITH TRAP
- SEWER PUMP STATION COMPRISING 2 x 1.5 kW (400V) SEWER PUMPS, 50mm SOLIDS HANDLING, WITH FLEX HOSES, QUICK COUPLINGS, NRV'S & 3 x FLOAT SWITCHES. ALL MECHANICAL AND ELECTRICAL INSTALLATION BY PUMP SPECIALIST
- RISING MAIN (Ø AS PER LAYOUT)

0 10 20 30 40 50 60 70 80 90

ON ORIGINAL (mm)

H	BERMS REVISED	26 MAR 2021
G	SURVEY UPDATED WITH 11kV O/H CABLE	17 MAR 2021
F	SEWER AT PUMP STATION REVISED	10 MAR 2021
E	SURVEY UPDATED, ISSUED FOR APPROVAL	04 MAR 2021
D	GENERAL UPDATES	25 FEB 2021
C	LANDSCAPE LAYOUT UPDATED & SEWER ADJUSTED TO ACCOMMODATE ELEC. CABLES & COMMS	24 FEB 2021
B	ISSUED FOR INFORMATION	15 FEB 2021
A	ISSUED FOR INFORMATION	12 FEB 2021
REV.	DESCRIPTION	DATE

MH&A

M. HURWORTH & ASSOCIATES cc

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Kenilworth Studio

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Reg. No. _____
Sign _____

CLIENT : BERTHA FOUNDATION

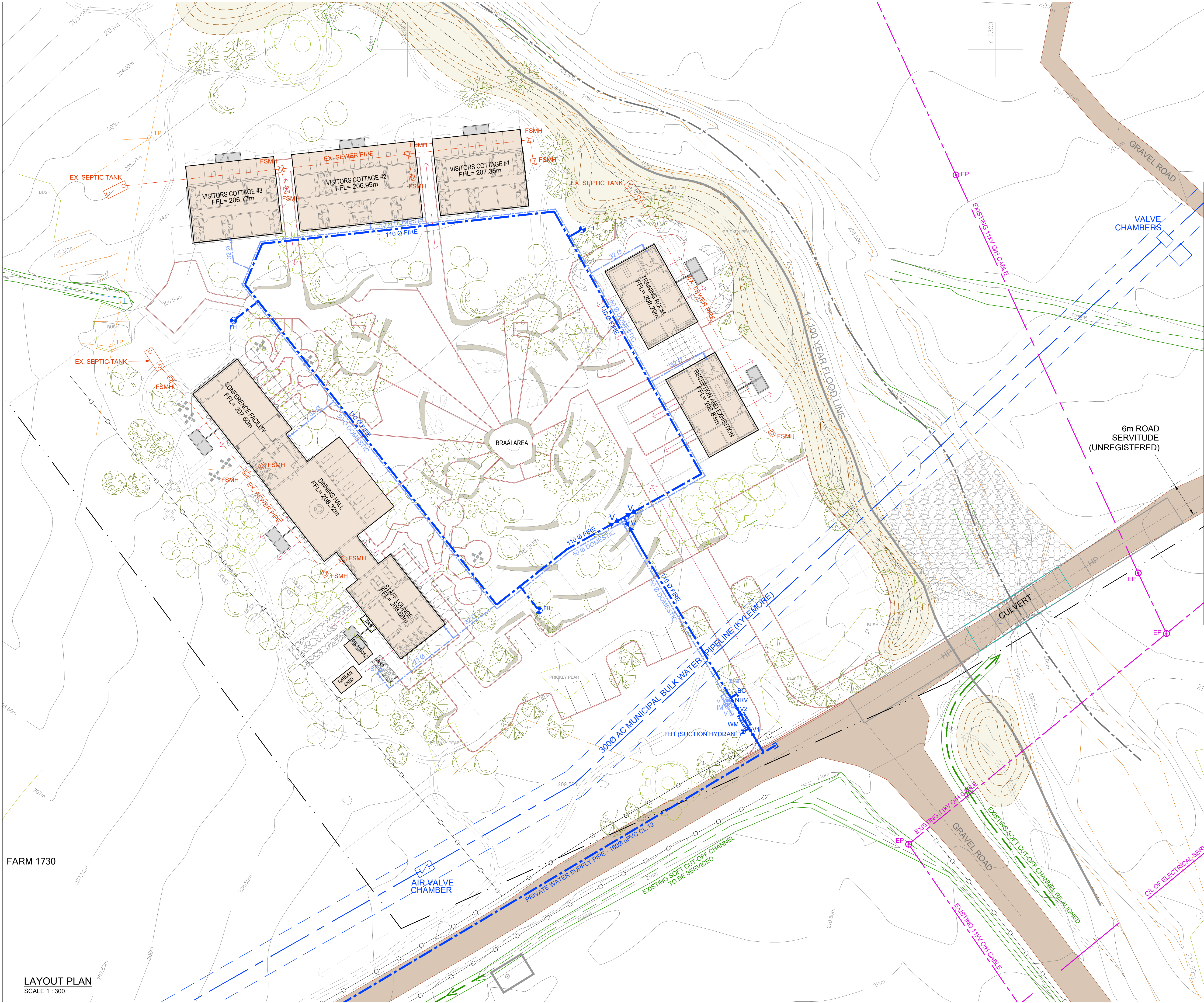
PROJECT : BERTHA RETREAT PTN 11 OF FARM 1674

DRAWING TITLE : PROPOSED FOUL SEWER RETICULATION

THIS DRAWING IS TO BE USED FOR APPROVAL PURPOSES ONLY

DRAWN	DATE	SCALE
GLYNIS	JANUARY 2021	A1 AT 1 : 300
JOB No	DRG No / CAD FILE	REVISION
C5960	C5960/04/01	H

LAYOUT PLAN
SCALE 1 : 300



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LEGEND

EXISTING WATER

3000 AC MUNICIPAL BULK WATER PIPELINE

PROPOSED

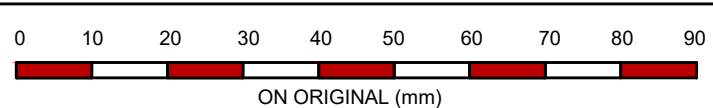
FIRE WATER

- 1100 FIRE RING
- ALL UNDERGROUND FIRE PIPEWORK TO BE UPVC CL16, AND TO ADAPT BELOW GROUND TO G.M.S. FOR ALL ABOVE GROUND PIPEWORK
- WM
- MAIN METER CHAMBER, 100mm Ø SENSUS MEISTREAM PLUS METER, WITH STRAINER AND READ SWITCH CAPABILITY
- V1
- GATE VALVE WITH CAP TOP IN BELL TOBY
- V2
- GATE VALVE WITH HAND WHEEL IN VALVE CHAMBER
- V
- GATE VALVE, IN BELL TOBY
- NRV
- NON RETURN VALVE IN VALVE CHAMBER
- BC
- DOUBLE BOOSTER CONNECTION
- FH
- UPSTAND FIRE HYDRANT

ALL GMS PIPEWORK TO BE COATED WITH 'CARBOGUARD 891' BY CARBOLINE (OR SIMILAR APPROVED)

DOMESTIC WATER

- 500 MAIN (uPVC CLASS 12)
- DM
- DOMESTIC WATER METER CHAMBER 50mm Ø METER BY SENSUS (SPECIFICATION TBC)
- IM
- IRRIGATION WATER METER CHAMBER 50mm Ø METER BY SENSUS (SPECIFICATION TBC)
- V
- BALL VALVE IN VALVE CHAMBER
- SP
- WALL MOUNTED STAND PIPE



H	BERMS REVISED	26 MAR 2021
G	SURVEY UPDATED WITH 11kV O/H CABLE	17 MAR 2021
F	SURVEY UPDATED, ISSUED FOR APPROVAL	04 MAR 2021
E	GENERAL UPDATES	25 FEB 2021
D	LANDSCAPE LAYOUT UPDATED & WATER ADJUSTED TO ACCOMMODATE ELEC. CABLES & COMMS	24 FEB 2021
C	PRIVATE WATER MAIN IN ROAD RESERVE	16 FEB 2021
B	FIRE ENGINEER'S UPDATES	15 FEB 2021
A	ISSUED FOR INFORMATION	12 FEB 2021
REV.	DESCRIPTION	DATE

MH&A M. HURWORTH & ASSOCIATES cc
CONSULTING CIVIL AND STRUCTURAL ENGINEERS
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Fax: 021 791 9055
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Reg. No. _____
Sign _____

CLIENT: BERTHA FOUNDATION

PROJECT: BERTHA RETREAT
PTN 11 OF FARM 1674

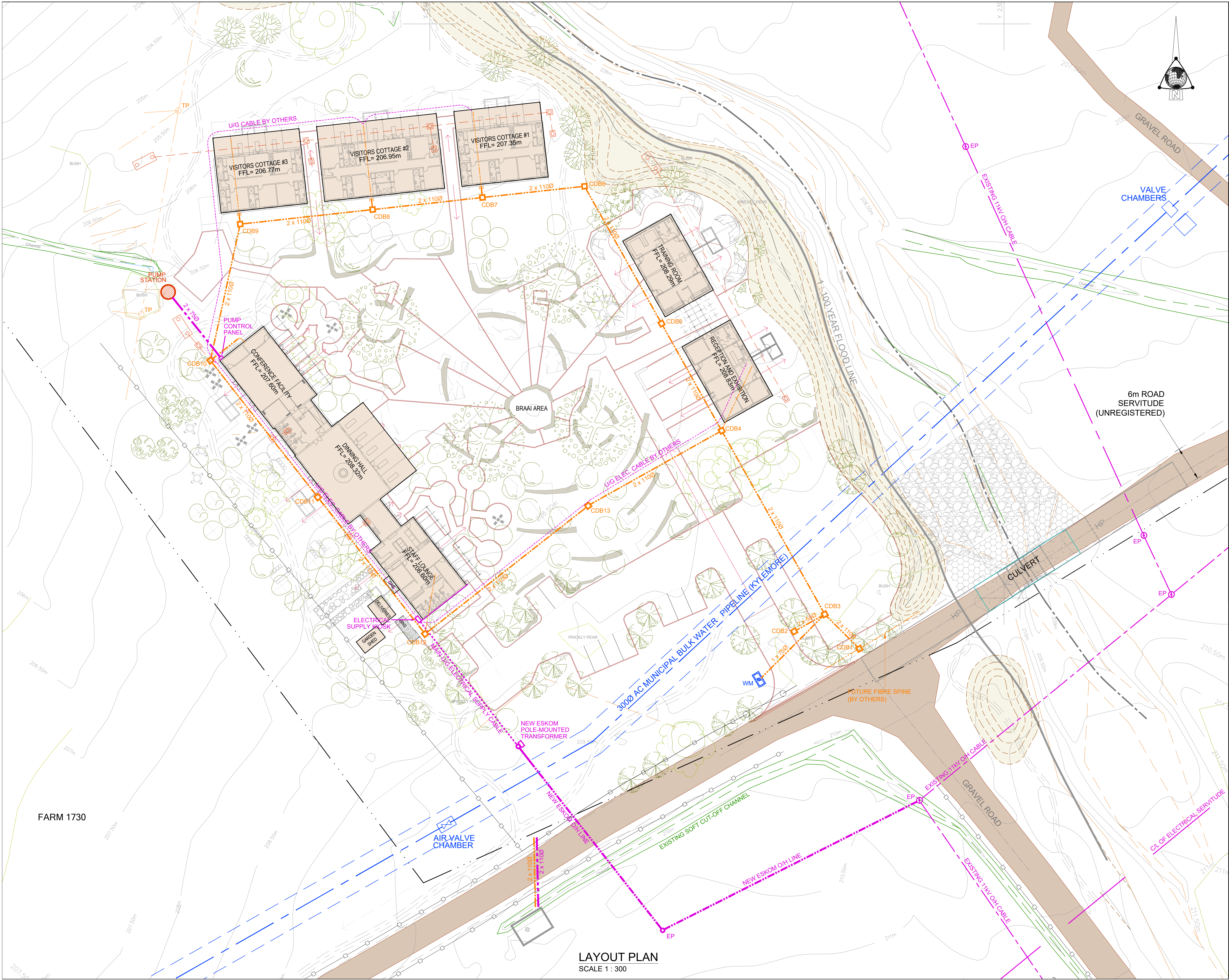
DRAWING TITLE: PROPOSED FIRE & DOMESTIC
WATER LAYOUT

THIS DRAWING IS TO BE USED FOR
APPROVAL PURPOSES ONLY

DRAWN GLYNIS	DATE JANUARY 2021	SCALE A1 AT 1 : 300
JOB No C5960	DRG No / CAD FILE C5960/04/02	REVISION H

FARM 1730

LAYOUT PLAN
SCALE 1 : 300



NOTES :

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LEGEND

EXISTING SERVICES

- EXISTING 3000 MUNICIPAL WATER PIPELINE
- EXISTING SEWER PIPE AND BRICK MANHOLE
- EXISTING ELECTRIC POLE
- EXISTING 11KV O/H CABLE
- C/L OF ELECTRICAL SERVITUDE
- TELEPHONE/ELECTRIC POLE
- O/H TELEPHONE/ELEC CABLE

PROPOSED SERVICES

SLEEVES

ELECTRICAL

- 11KV ELECTRICAL CABLE
- UG ELECTRICAL CABLE
- ELECTRICAL DUCT 750 UPVC CLASS 6 1100 DOUBLE WALLED HDPE DUCT
- ELECTRICAL SUPPLY KIOSK
- ESKOM POLE-MOUNTED TRANSFORMER
- UG ELECTRICAL CABLE BY OTHERS
- ESKOM POLE

COMMUNICATION / DATA

- COMMUNICATION/DATA DUCT 750 UPVC CLASS 6 1100 DOUBLE WALLED HDPE 'KABELFLEX' BY NEXXTUBE
- COMMS DRAWBOX (600x600)
- END CAP

0 10 20 30 40 50 60 70 80 90

ON ORIGINAL (mm)

F	BERMS REVISED	26 MAR 2021
E	EX O/H CABLES UPDATED AS PER LATEST SURVEY	16 MAR 2021
D	DUCTS TO PUMP STATION REVISED	10 MAR 2021
C	SURVEY UPDATED, ISSUED FOR APPROVAL	04 MAR 2021
B	GENERAL UPDATES	25 FEB 2021
A	ISSUED FOR INFORMATION	24 FEB 2021
REV.	DESCRIPTION	DATE

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Reg. No. _____
Sign. _____

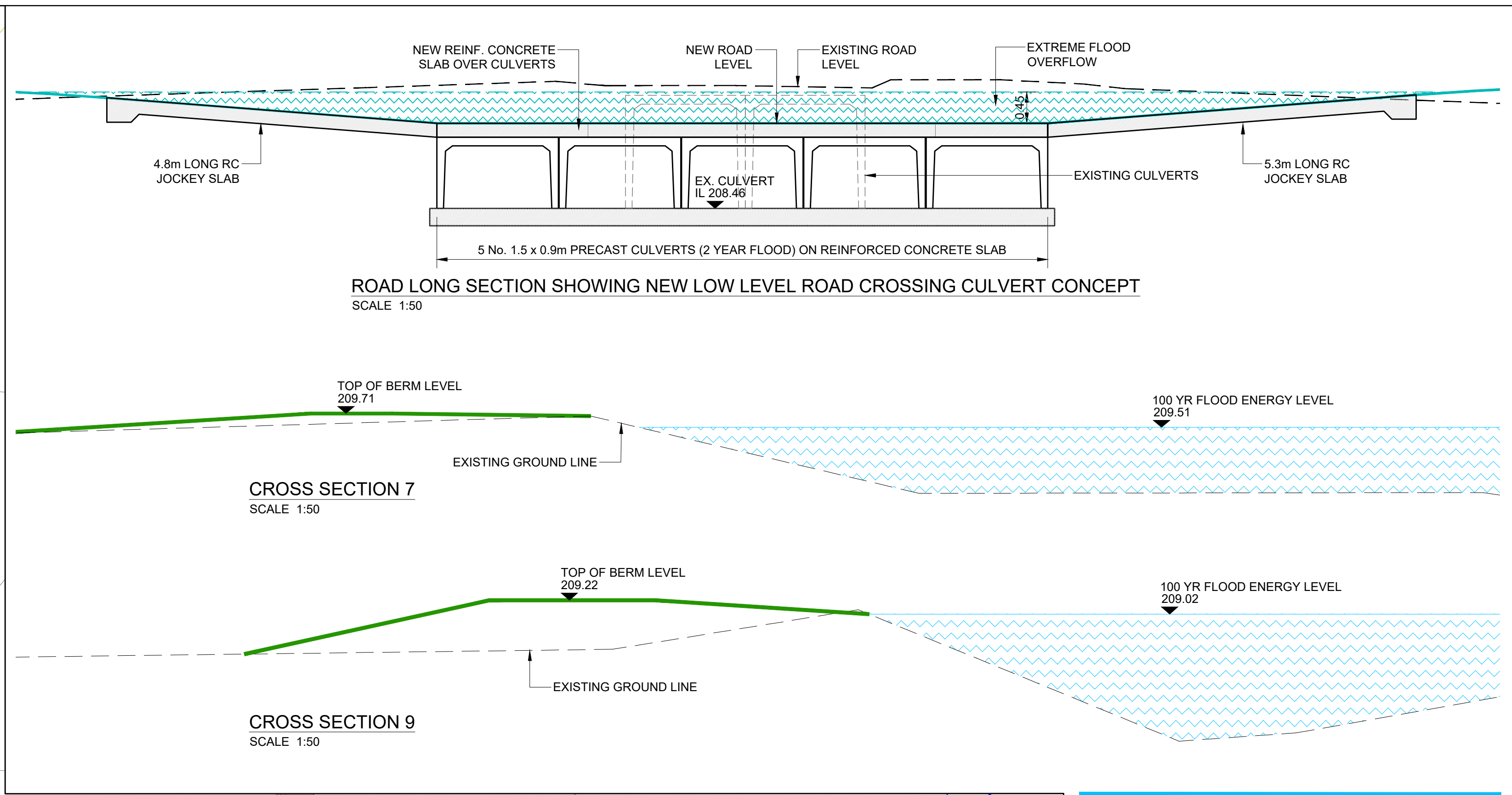
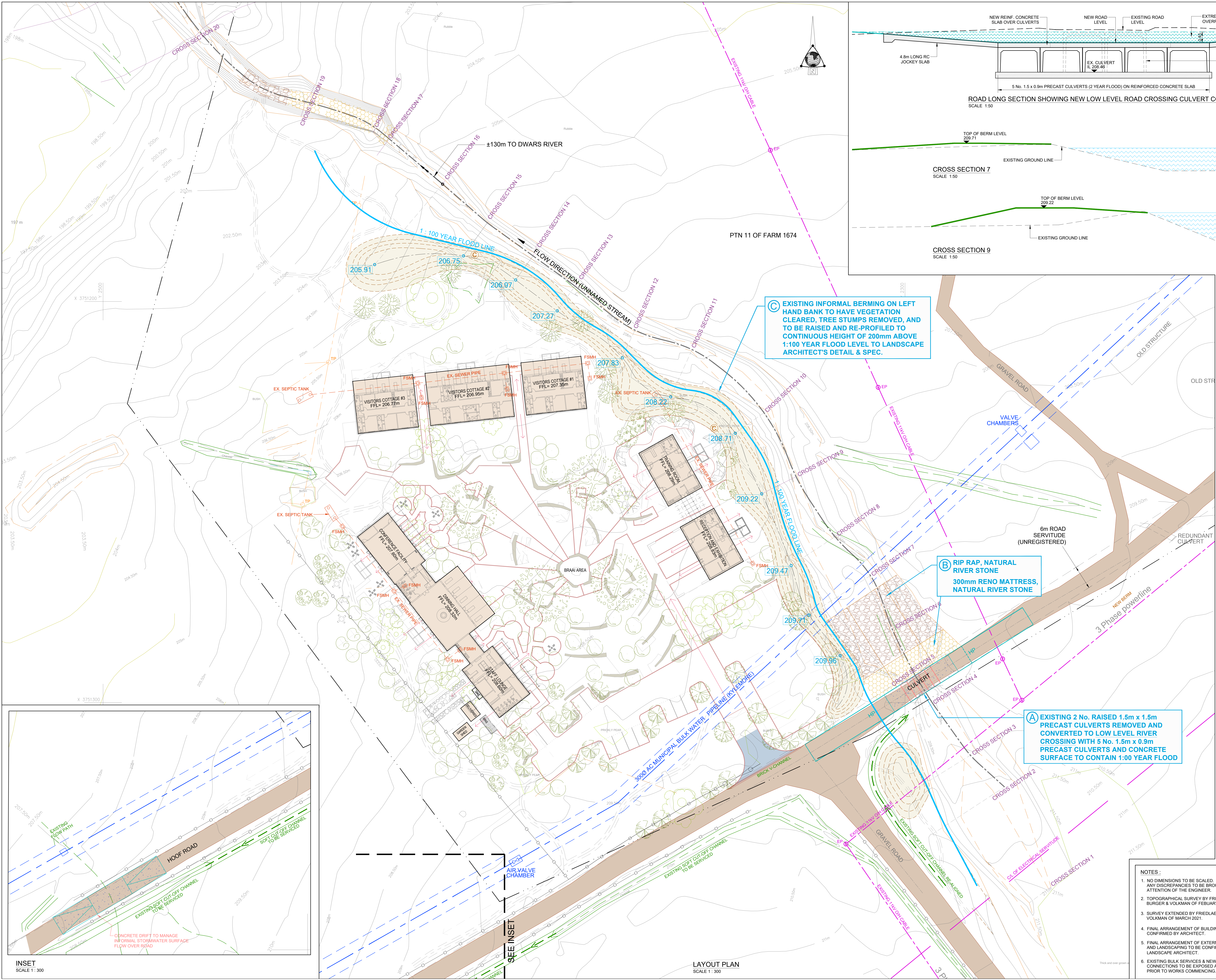
CLIENT: BERTHA FOUNDATION

PROJECT: BERTHA RETREAT
PTN 11 OF FARM 1674

DRAWING TITLE: DUCT LAYOUT

THIS DRAWING IS TO BE USED FOR APPROVAL PURPOSES ONLY

DRAWN GLYNIS	DATE JANUARY 2021	SCALE A1 AT 1 : 300
JOB No C5960	DRG No / CAD FILE C5960/04/04	REVISION F



- FLOOD CONTROL NOTES:**
- FLOOD CONTROL MEASURES A, B & C REQUIRED TO PROTECT DEVELOPMENT.
 - FLOOD LEVELS INDICATED IN ACCORDANCE WITH FLOOD STUDY BY MARK OBREE OF 25 FEB. 2021.
 - MINIMUM BERM CREST LEVEL [205.91] FOR FLOOD PROTECTION (FLOOD ENERGY LEVEL +200mm FREEBOARD)
 - THE 1:100 YEAR ATTENUATED PEAK FLOW IN WATERCOURSES AT DEVELOPMENT IS 27m³/s. PRIOR TO CONSTRUCTION OF DAMS, PEAK FLOW WAS 33m³/s.
 - FLOOD ENERGY LEVELS ARE MODELLED ASSUMING BERMS ON LEFT AND RIGHT SIDE. AS WORST CASE ASSESSMENT. IN PRACTICE, INTENT IS TO PERMIT SPREADING OF FLOW ONTO RIGHT BANK, WITH VELOCITY REDUCTION.
 - SCOUR AT SECTION 17 PROPOSED TO BE REHABILITATED TO REDUCE VELOCITIES. REFER DRAWING No. C5960/05/02.
 - FLOOD FLOW CONTRIBUTION INTO DWARS RIVER IS LOWER THAN PRE-ATTENUATION, AND NOT REGARDED AS PROBLEMATIC COMPARED WITH OTHER CONTRIBUTING CATCHMENTS.

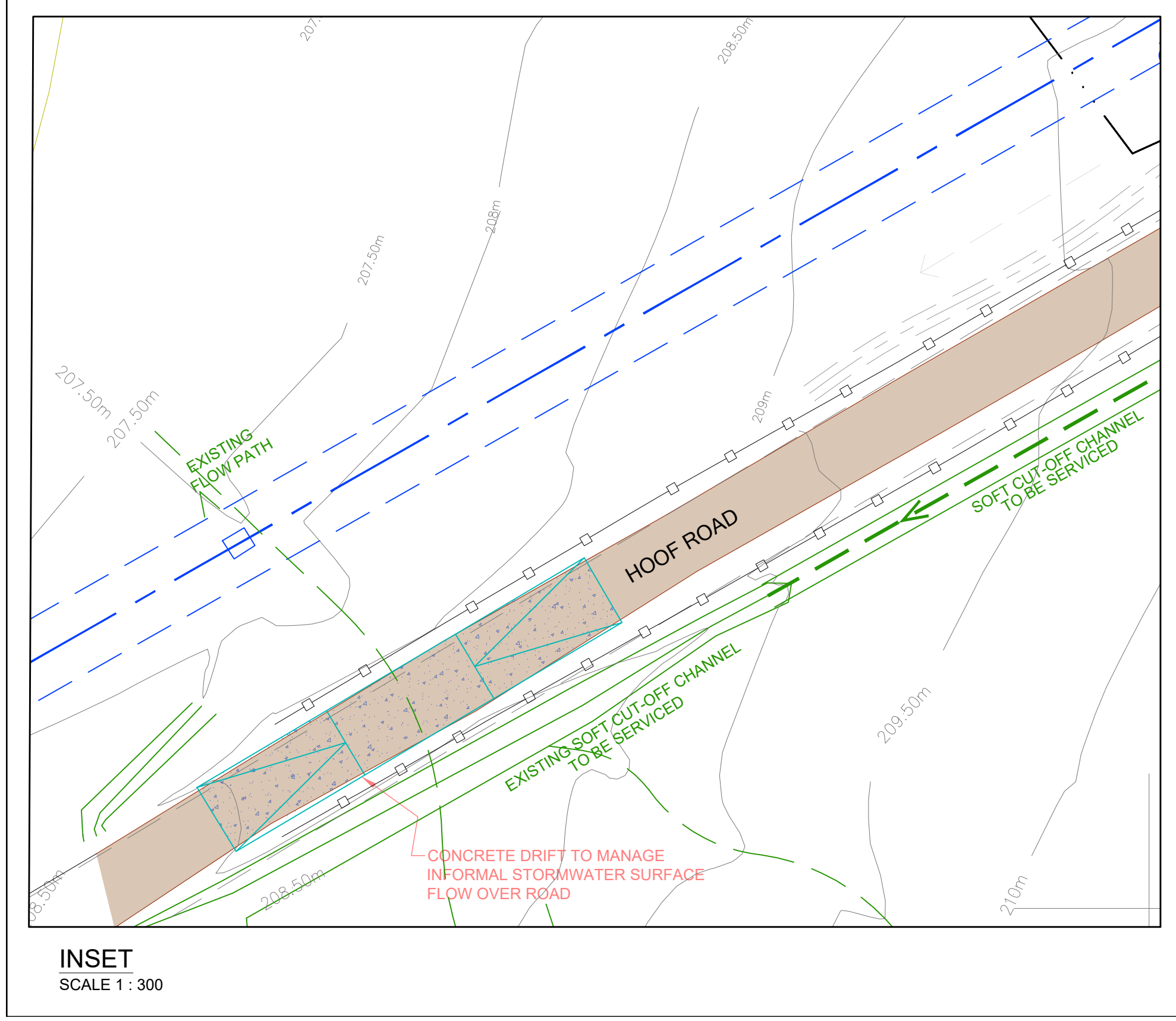
FLOW TABLE			
RIVER X-SECTION	W.S. ELEV (m)	ENERGY LEVEL (m)	VELOCITY CHANNEL (m/s)
6	209.45	209.76	2.5
7	209.20	209.51	2.5
8	209.01	209.27	2.3
9	208.63	209.02	2.8
10	208.07	208.51	2.9
11	207.61	208.02	2.8
12	207.16	207.63	3.0
13	206.57	207.07	3.1
14	206.28	206.77	3.1
15	206.01	206.55	3.3
16	205.22	205.71	3.1

REVISIONS		
REV.	DESCRIPTION	DATE
G	BERMS REVISED	26 MAR 2021
F	SURVEY UPDATED WITH 11KV OH CABLE	17 MAR 2021
E	SURVEY UPDATED, ISSUED FOR APPROVAL	04 MAR 2021
D	BERM + FLOOD LEVELS UPDATED	26 FEB 2021
C	ROAD LONG SECTION ADDED	15 FEB 2021
B	ISSUED FOR INFORMATION	15 FEB 2021
A	ISSUED FOR INFORMATION	12 FEB 2021



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CLIENT: BOSCHENDAL ESTATE		
PROJECT: BERTHA RETREAT PTN 11 OF FARM 1674		
DRAWING TITLE: PROPOSED FLOOD PROTECTION MEASURES		
THIS DRAWING IS TO BE USED FOR APPROVAL PURPOSES ONLY		
DRAWN: GYLINIS	DATE: JANUARY 2021	SCALE: A1 AT 1:300
JOB No: C5960	DRG No: CAD FILE	REVISION: C5960/05/01



LAYOUT PLAN
SCALE 1:300