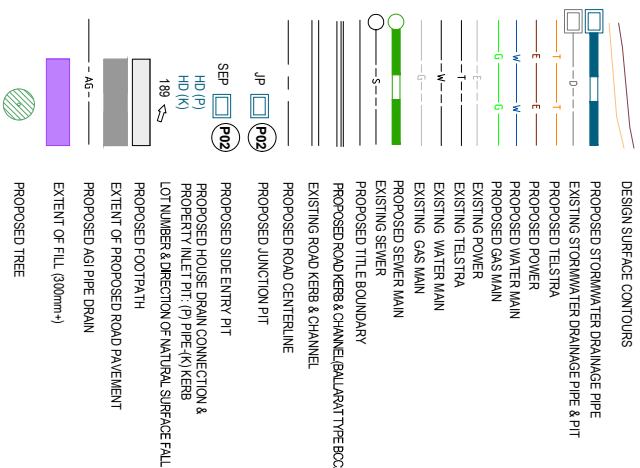


LEGEND



NOTE: ALL CONDUIT TRENCHES UNDER ROAD PAVEMENT SHALL BE BACKFILLED WITH 20mm NOM SIZE CLASS 3 FCR TO SUBGRADE AND TRENCHING UNDER KERB AND CHANNEL SHALL BE BACKFILLED WITH 20mm NOM SIZE CLASS 3 FCR.

NOTE: ANY USE OF THE ELECTRONIC DRAWINGS OR DATA PROVIDED BY CARDNO/TGM SHALL BE USED AT THE USER'S RISK. NO RESPONSIBILITY WILL BE TAKEN BY CARDNO/TGM AS TO THE ACCURACY OF THE DIGITAL DRAWING OR DATA. ANY SET OUT WORKS UNDERTAKEN USING CARDNO/TGM DIGITAL DRAWINGS OR DATA SHOULD BE CHECKED AGAINST EXISTING TITLE PEGS, TEMPORARY AND/OR PERMANENT SURVEY MARKS AS NOMINATED BY THE PROJECT'S LICENSED SURVEYOR. THE SET-OUT INFORMATION PROVIDED ON ARCHITECTURAL AND/OR OTHER PROJECT RELATED DRAWINGS AND DOCUMENTS, IN CONJUNCTION WITH THE APPROVED HARD COPY DRAWINGS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

NOTE: AGRICULTURAL DRAINS ARE TO BE LOCATED AT BACK OF KERB & CHANNEL, WITH THE EXCEPTION OF WHERE A STORMWATER PIPE IS TO BE LOCATED REFER TO STANDARD DRAWING SD 145.

NOTE: ALTERNATE PIPE MATERIAL CAN BE UTILISED PROVIDED THEY MEET THE REQUIRED LOAD, SPECIFICATIONS & AUTHORITY REQUIREMENTS.

NOTE: THE ORIENTATION OF ALL STORMWATER DRAINAGE ACCESS COVERS & GRATES ARE SHOWN INDICATIVELY AND ARE TO BE MANUFACTURED & INSTALLED IN ACCORDANCE WITH AS3996-2006.

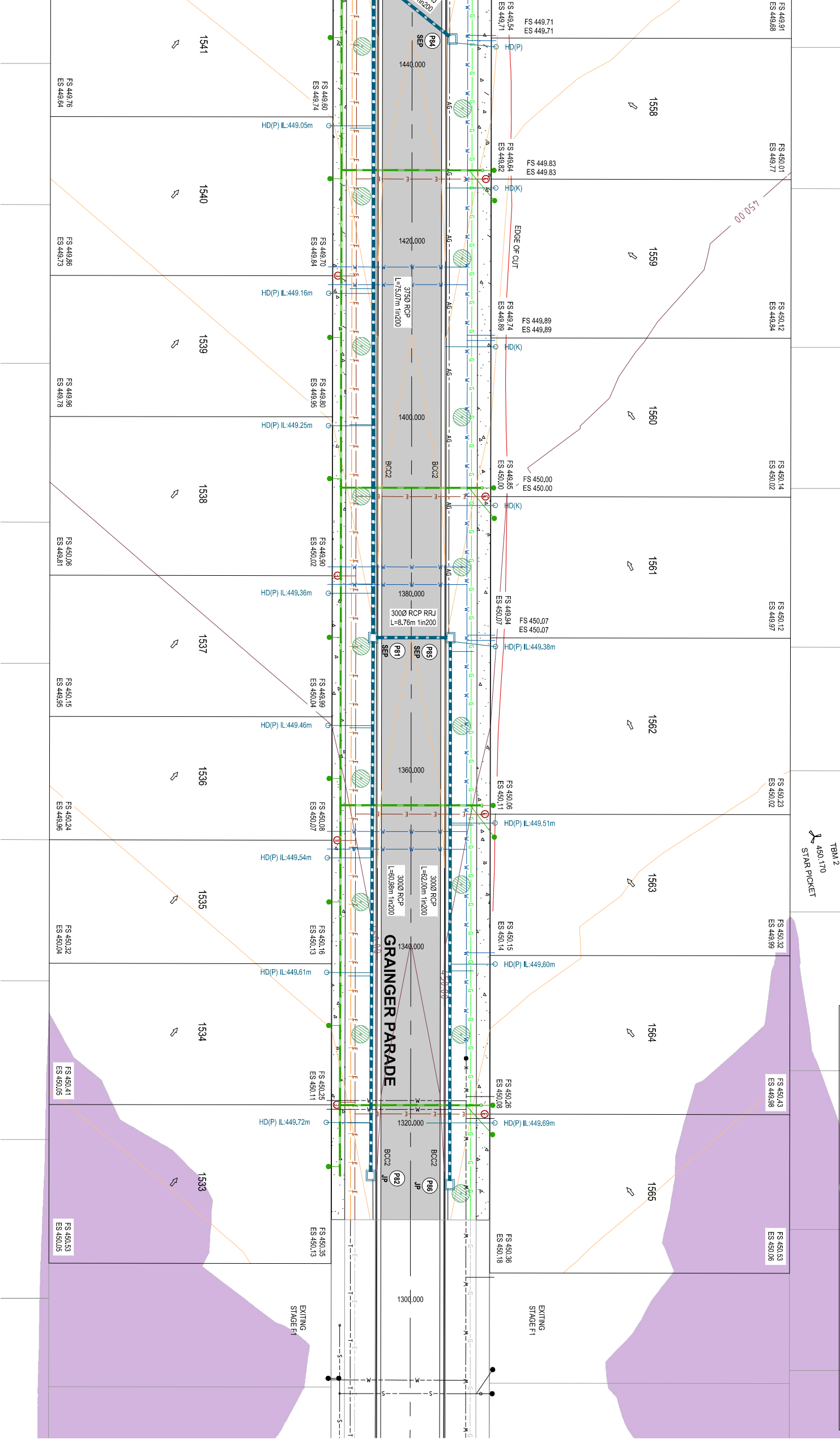
NOTE: THE CONTRACTOR IS TO CONFIRM INVERT LEVELS OF ALL EXISTING PITS PRIOR TO ANY DRAINAGE WORKS COMMENCING.

NOTE: ALL KERBS & CHANNELS IS CITY OF BALLARAT TYPE BCC2 UNLESS OTHERWISE NOTED.

NOTE: CONTRACTOR TO CONFIRM EXISTING PAVEMENT LEVELS PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER. ALL KERB SET-OUT TO BE INSPECTED AND APPROVED BY THE COUNCIL OFFICER PRIOR TO PLACEMENT OF KERB & CHANNEL.

NOTE: THE LOCATION OF EXISTING UNDERGROUND SERVICES ARE SHOWN INDICATIVELY ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL AUTHORITIES TO DETERMINE THE LOCATION OF UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORK. ANY CLASH OF WORKS WITH A SERVICE IS TO BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL ENSURE THAT ALL SERVICES ARE FULLY PROTECTED DURING CONSTRUCTION. ANY SERVICES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

NOTE: HOUSE DRAINS TO BE CONNECTED TO KERB IN ACCORDANCE WITH I.D.M. SD 505 OR CONNECTED TO PIPE IN ACCORDANCE WITH I.D.M. SD 515.



PLAN VIEW

NOTE: ALL POWER/ELECTRICAL CONDUITS TO CROSS UNDER DRAINAGE PIPES MAINTAINING ADEQUATE CLEARANCE BETWEEN SERVICES.

SCALE 1:250

FOR APPROVAL

BENCHMARK LOCATIONS			
TBM-2	E: 745460.633	N: 5641436.222	RL: 450.464
TBM-3	E: 754268.907	N: 5641467.974	RL: 440.170
TBM-4	E: 745054.678	N: 5641468.514	RL: 448.479

SUGGESTED SERVICES OFFSET TABLE					
STREET NAME	TELECOMMS	ELEC	GAS	WATER	SEWER
GRAINGER PARADE	2.20 (S)	2.70 (S)	2.20 (N)	2.70 (N)	1.00 (S)
SNEDDON WAY	2.20 (SW)	2.70 (SW)	2.20 (NE)	2.70 (NE)	1.00 (NE)

THE CONTRACTOR IS TO CONFIRM ALL EXISTING & PROPOSED SERVICE OFFSETS, DEPTHS & CLEARANCES TO ANY EXISTING & PROPOSED INFRASTRUCTURE WITH THE RESPONSIBLE AUTHORITY PRIOR TO CONSTRUCTION.

ISSUE	ISSUED FOR	DATE	DRAWN	APPROVED	SCALE
01	PRELIMINARY	08/09/19	JH	RD	
02	PRELIMINARY	23/09/19	JH		
03	PRELIMINARY	25/09/19	JH		
04	PRELIMINARY	26/10/2020	JH		
05	APPROVAL	10/02/2020	JH		

DESIGNED	S. LOTAY	DATE	AUGUST 2019
DRAWN	J. HADFIELD	SCALE	AS SHOWN
CHECKED	R. DUINN	APPROVED	A1 / A3
DATE	08/08/19	DATE	

1315 Sturt Street, Ballarat, VIC Australia PO Box 653W, Ballarat (Vic) 3350
 Email: veldin@cardno.com.au Web: www.cardno.com

Integra

LUCAS ESTATE RESIDENTIAL SUBDIVISION
ROAD & DRAINAGE LAYOUT PLAN
SHEET 1 OF 3

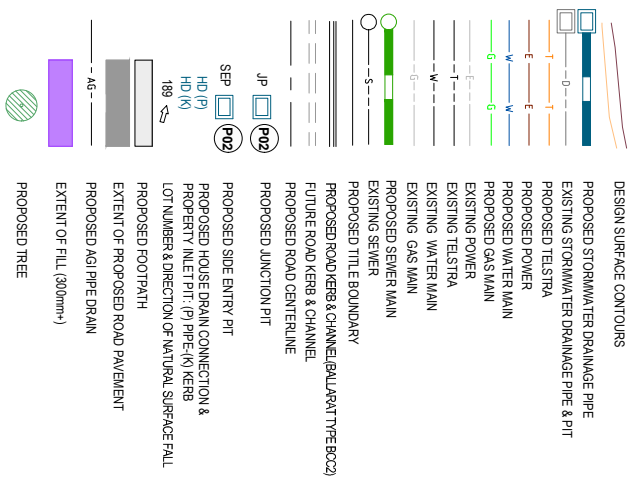
TOWN REF. No.: 18775-205

SHEET: C02 OF 11

REV: 05

This plan is provided for marketing and information purposes only. It shows design levels only which may change during construction. Builders should check all information prior to the building process. Where discrepancies exist between the plan of subdivision and this plan, the plan of subdivision shall be taken as correct. It is the responsibility of the prospective purchaser to confirm prior to purchase, all lot levels, fill depth and all service locations are correct.

LEGEND



NOTE:
ALL POWERELECTRICAL CONDUITS TO CROSS UNDER DRAINAGE PIPES MAINTAINING ADEQUATE CLEARANCE BETWEEN SERVICES.

NOTE:
ALL CONDUIT TRENCHES UNDER ROAD PAVEMENT SHALL BE BACKFILLED WITH 20mm NOM SIZE CLASS 3 FOR TO SUBGRADE AND TRENCHING UNDER KERB AND CHANNEL SHALL BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 FOR.

NOTE:
ANY USE OF THE ELECTRONIC DRAWINGS OR DATA PROVIDED BY CARDNOGM SHALL BE USED AT THE USER'S RISK. NO RESPONSIBILITY WILL BE TAKEN BY CARDNOGM AS TO THE ACCURACY OF THE DIGITAL DRAWING OR DATA. ANY SET OUT WORKS UNDERLAIN USING CARDNOGM DIGITAL DRAWINGS OR DATA SHOULD BE CHECKED AGAINST EXISTING TITLE PEGS. TEMPORARY AND/OR PERMANENT SET OUT MARKS AS NOMINATED BY THE PROJECT'S LICENSED SURVEYOR FOR THE SET OUT INFORMATION PROVIDED ON ARCHITECTURAL AND/OR OTHER PROJECT RELATED DRAWINGS AND DOCUMENTS IN CONJUNCTION WITH THE APPROVED HAND COPIED DRAWINGS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

NOTE:
AGRICULTURAL DRAINS ARE TO BE LOCATED AT BACK OF KERB & CHANNEL, WITH THE EXCEPTION OF WHERE A STORMWATER PIPE IS TO BE LOCATED. REFER DIM STANDARD DRAWING SD 145

NOTE:
ALTERNATIVE PIPE MATERIAL CAN BE UTILISED PROVIDING THEY MEET THE REQUIRED LOAD, SPECIFICATIONS & AUTHORITY REQUIREMENTS.

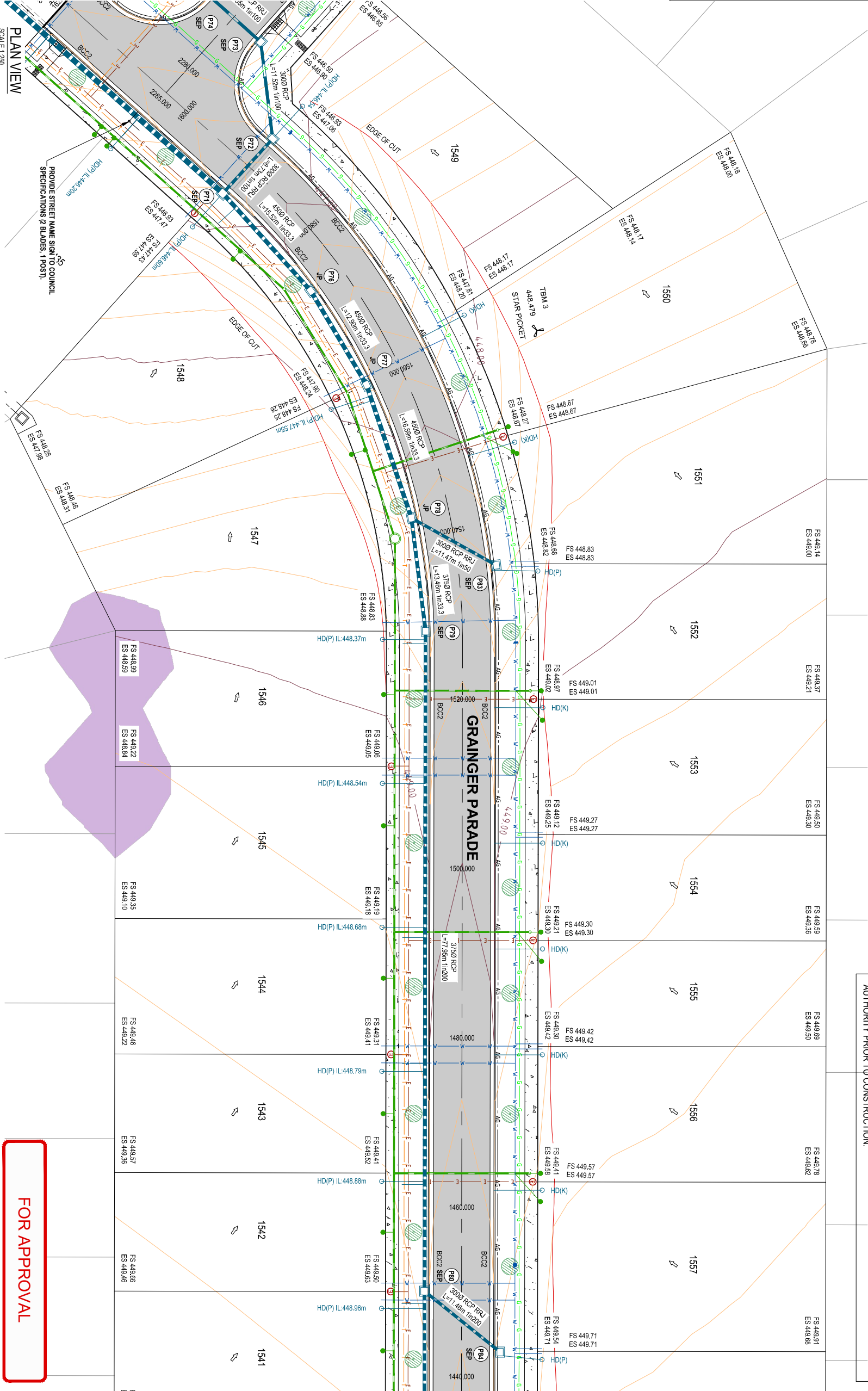
NOTE:
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NOTE:
ALL KERB & CHANNEL IS CITY OF BALLARAT TYPE BCC2 UNLESS OTHERWISE NOTED

NOTE:
CONTRACTOR TO CONFIRM EXISTING PAVEMENT LEVELS PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES TO BE REPORTED BY THE ENGINEER. ALL KERB SETOUT TO BE INSPECTED AND APPROVED BY THE COUNCIL OFFICER PRIOR TO PLACEMENT OF KERB & CHANNEL.

NOTE:
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NOTE:
HOUSE DRAINS TO BE CONNECTED TO KERB IN ACCORDANCE WITH I.D.M. SD 515 OR CONNECTED TO PIPE IN ACCORDANCE WITH I.D.M. SD 515.



PLAN VIEW
SCALE 1:250

BENCHMARK LOCATIONS			
TBM-2	E: 745460.633	N: 5841436.232	RL: 450.464
TBM-3	E: 752683.907	N: 5841467.974	RL: 440.170
TBM-4	E: 745054.678	N: 5841468.514	RL: 448.479

SUGGESTED SERVICES OFFSET TABLE					
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ISSUE	ISSUED FOR	DATE	DRAWN	APPROVED	ISSUED FOR	DATE	DRAWN	APPROVED
01	PRELIMINARY	08/08/19	JH	RD				
02	PRELIMINARY	23/08/19	JH					
03	PRELIMINARY	25/09/19	JH					
04	PRELIMINARY	26/10/2020	JH					
05	APPROVAL	10/02/2021	JH					

DESIGNED	DATE	SCALE	AS SHOWN
S. LOTAY	AUGUST 2019		
J. HADFIELD		A1 / A3	

DESIGNED	DATE	APPROVED
R. DUINN	08/08/19	

Cardno TGM
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 Email: vol@cardno.com.au Web: www.cardno.com

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LUCAS ESTATE RESIDENTIAL SUBDIVISION STAGE F5 (33 LOTS)

CIVIL DRAWING
ROAD & DRAINAGE LAYOUT PLAN
SHEET 2 OF 3
 DRAWING TITLE: ROAD & DRAINAGE LAYOUT PLAN
 SHEET: C03 OF 11
 REV: 05
 TORQUE NO: 18775-205

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