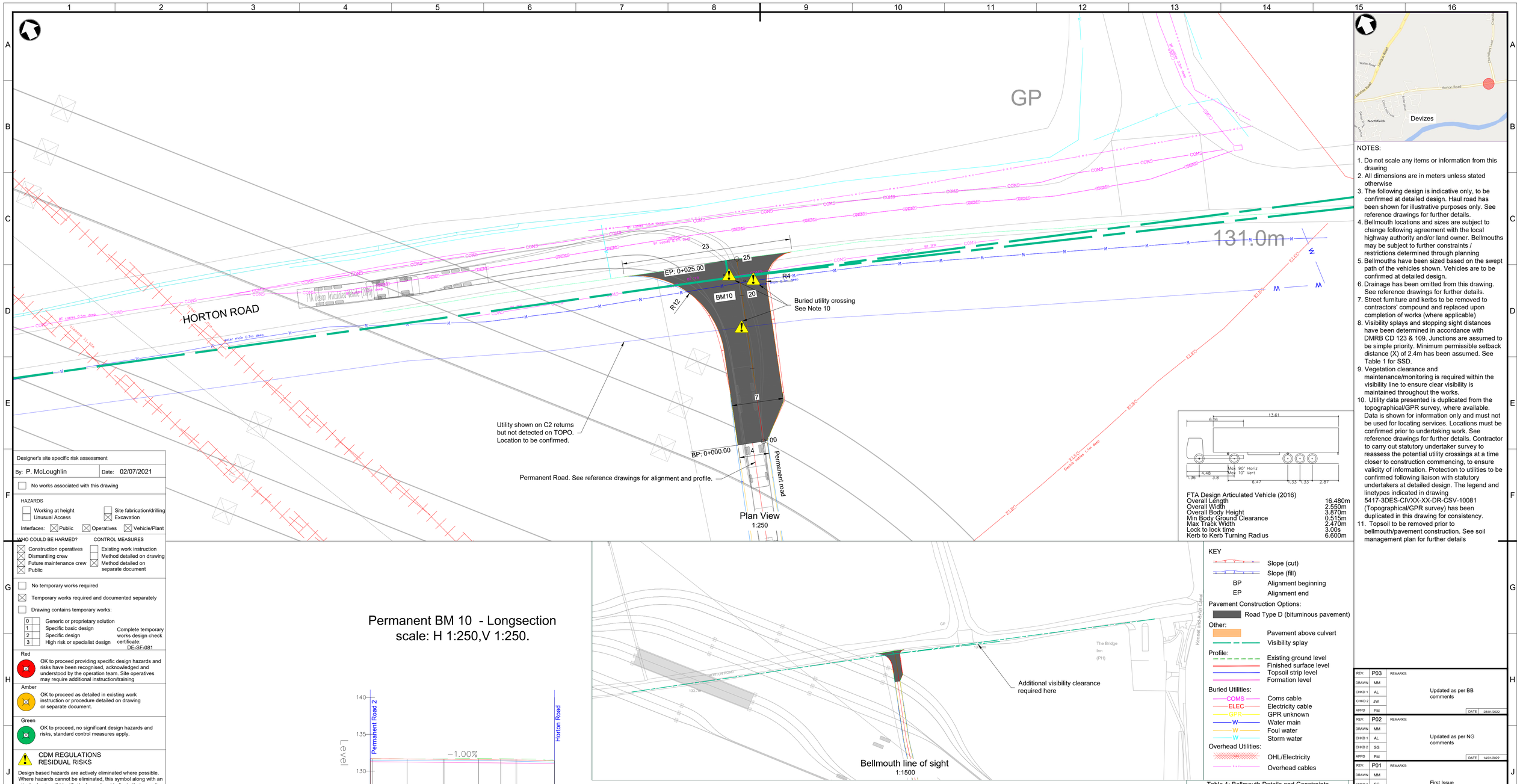

NOTES:

1. Do not scale any items or information from this drawing
2. All dimensions are in meters unless stated otherwise
3. The following design is indicative only, to be confirmed at detailed design. Haul road has been shown for illustrative purposes only. See reference drawings for further details.
4. Bellmouth locations and sizes are subject to change following agreement with the local highway authority and/or land owner. Bellmouths may be subject to further constraints / restrictions determined through planning
5. Bellmouths have been sized based on the swept path of the vehicles shown. Vehicles are to be confirmed at detailed design.
6. Drainage has been omitted from this drawing. See reference drawings for further details.
7. Street furniture and kerbs to be removed to contractors' compound and replaced upon completion of works (where applicable)
8. Visibility splays and stopping sight distances have been determined in accordance with DMRB CD 123 & 109. Junctions are assumed to be simple priority. Minimum permissible setback distance (X) of 2.4m has been assumed. See Table 1 for SSD.
9. Vegetation clearance and maintenance/monitoring is required within the visibility line to ensure clear visibility is maintained throughout the works.
10. Utility data presented is duplicated from the topographical/GPR survey, where available. Data is shown for information only and must not be used for locating services. Locations must be confirmed prior to undertaking work. See reference drawings for further details. Contractor to carry out statutory undertaker survey to reassess the potential utility crossings at a time closer to construction commencing, to ensure validity of information. Protection to utilities to be confirmed following liaison with statutory undertakers at detailed design. The legend and linetypes indicated in drawing 5417-3DES-CIVXX-XX-DR-CSV-10081 (Topographical/GPR survey) has been duplicated in this drawing for consistency.
11. Topsoil to be removed prior to bellmouth/pavement construction. See soil management plan for further details

FTA Design Articulated Vehicle (2016)

Overall Length	16.480m
Overall Width	2.550m
Overall Body Height	3.870m
Min Body Ground Clearance	0.515m
Max Track Width	2.470m
Lock to lock time	3.00s
Kerb to Kerb Turning Radius	6.600m

Designer's site specific risk assessment

By: P. McLoughlin | Date: 02/07/2021

☐ No works associated with this drawing

HAZARDS

☐ Working at height ☐ Site fabrication/drilling
☐ Unusual Access ☒ Excavation

Interfaces: ☒ Public ☒ Operatives ☒ Vehicle/Plant

WHO COULD BE HARMED?	CONTROL MEASURES
☒ Construction operatives	☐ Existing work instruction
☒ Dismantling crew	☐ Method detailed on drawing
☒ Future maintenance crew	☒ Method detailed on separate document
☒ Public	

☐ No temporary works required

☒ Temporary works required and documented separately

☐ Drawing contains temporary works:

0 ☐	Generic or proprietary solution	Complete temporary works design check certificate: DE-SF-081
1 ☐	Specific basic design	
2 ☐	Specific design	
3 ☐	High risk or specialist design	

Red
OK to proceed providing specific design hazards and risks have been recognised, acknowledged and understood by the operation team. Site operatives may require additional instruction/training

Amber
OK to proceed as detailed in existing work instruction or procedure detailed on drawing or separate document.

Green
OK to proceed, no significant design hazards and risks, standard control measures apply.

CDM REGULATIONS
RESIDUAL RISKS

Design based hazards are actively eliminated where possible. Where hazards cannot be eliminated, this symbol along with an attached note will identify the hazard and indicate that an action is required by the person supervising the works to manage the design hazard during construction. Other than those noted, we are not aware of any further residual design risks apart from those that a competent contractor would ordinarily consider.

Permanent BM 10 - Longsection
scale: H 1:250,V 1:250.

Chainage	00.000	10.000	20.000	25.000
Existing Levels	131.667	131.656	131.659	131.449
Proposed Levels	131.698	131.599	131.499	
Level Difference	-0.031	0.058	0.151	
Horizontal Geometry	L =25.000			
Vertical Geometry	G =-0.998% L =25.000			

Profile View
1:250

KEY

- Slope (cut)
- Slope (fill)
- BP Alignment beginning
- EP Alignment end

Pavement Construction Options:
- Road Type D (bituminous pavement)

Other:
- Pavement above culvert
- Visibility splay

Profile:
- Existing ground level
- Finished surface level
- Topsoil strip level
- Formation level

Buried Utilities:
- COMS Coms cable
- ELEC Electricity cable
- GPR unknown
- W Water main
- W Foul water
- W Storm water

Overhead Utilities:
- OHL/Electricity
- Overhead cables

Table 1: Bellmouth Details and Constraints	
Bellmouth reference	BM10
Bellmouth Type	Permanent
Vehicle movements	HGV west only
Existing highway	Horton Road
Road type	Minor
Road speed	60mph
Stopping sight distance	215m
Road width	6m
Existing bellmouth	No
Existing kerbs	No
Existing highway drainage	No
Existing footpath	No
Existing ditch/culvert	No

REFERENCE DRAWINGS:

- 5417-MMD-CIVWAR-XX-DR-CCA-10100 to 10110 - Haulage road general and profile layout (Sht 1 to 11)
- 5417-MMD-CIVWAR-XX-DR-CGN-10113 to 10114 - Permanent bellmouths general and profile layout (Sht 1 to 2)
- 5417-MMD-CIVWAR-XX-DR-CGN-10050 to 10052, 10111, 10112 - Temporary bellmouths general and profile layout (Sht 1 to 5)
- 5417-MMD-CIVWAR-XX-DR-CGN-10115 to 10117 - Permanent access general and profile layouts
- 5417-MMD-CIVGT-XX-RP-CEW-10005 - Soil management plan
- 5417-MMD-CIVXX-XX-DR-CGN-10122 - Bellmouth pavement detail
- 5417-3DES-CIVXX-XX-DR-CSV-10081- Topographic & GPR Survey
- 5417-MMD-CIVDG-XX-DR-CGN-10057 - Proposed Drainage Layout Plan

1:250 0 12.5m 25m

FOR COMMENT

REV.	DRAWN	CHKD 1	CHKD 2	APPD	REMARKS	DATE
P03	MM	AL	JW	PM	Updated as per BB comments	28/01/2022
P02	MM	AL	SG	PM	Updated as per NG comments	14/01/2022
P01	MM	SG	AL	PM	First Issue	15/09/2021

nationalgrid

CLIENT DRAWING NUMBER: N/A

CLIENT SCHEME NUMBER: 100540-201159

TITLE:

Permanent Bellmouth - Horton Road
General & Profile
Layout

PROJECT NAME: North Wessex Downs VIP

PROJECT NUMBER : 5417

SCALE: 1:250 | SHEET: 1 OF 1 | SHEET SIZE: A1

STATUS: S4 | REVISION: P03 | ACTIVITY ID: N/A

DRAWING No. / BIM CODE
5417-MMD-CIVWAR-XX-DR-CGN-10114

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