

- Legend**
- - - Site Boundary
 - - - Proposed Surface Water Drainage
 - - - Proposed Foul Water Drainage
 - Proposed Potable Water
 - Proposed Fire Water
 - Proposed Hydrant Main
 - Proposed LV Electric

- Notes**
1. Do not scale from this drawing.
 2. The details shown on this drawing are based on a RIBA Stage 3 produced for MIMWEP Stage 2. The details will need to be reviewed and revised during subsequent design stages.
 3. The topographic survey detail shown on this drawing is based on a survey carried out by 'Technics Group' in September 2019. No responsibility can be taken for the accuracy of this survey.
 4. All levels are shown above ordnance datum (m AOD).
 5. The details shown on this drawing are subject to change in subsequent design stages and following any potential comments received from statutory authorities.
 6. Existing services to the existing school building to be removed not shown on this drawing for clarity.
 7. Contractor to identify any unknown services prior to commencement of works.
 8. Contractor to investigate and identify all known and unknown services prior to commencement of works.
 9. Refer to MEP drawings for the utility strategy and how the services are to be removed and at what stage of the project.
 10. The existing drainage of the school site will need to be accommodated during construction.
 11. No gas is required

| | | | | |
|-------------------------|----------|----|------|------|
| P01 | 24/09/21 | IA | JN | IA |
| Issued for RIBA Stage 3 | | | | |
| Issue | Date | By | Chkd | Appd |

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Client
MIMWEP
Rhondda Cynon Taf County Council

Project Title
RCT Batch Primary

Drawing Title
Penygawsi
Proposed Utilities

| | | | |
|-------------|-------------------------------------|------|------------|
| Scale at A1 | 1:500 | Role | Civils |
| Suitability | S3- Suitable for Review and Comment | | |
| Job No | 281143 | Rev | P01 |
| Drawing No | RH0401-ARP-ZZ-00-DR-C-00081 | | |



Legend

- Site Boundary
- Storm Sewer
- - - Storm Sewer (Assumed Route)
- Foul Sewer
- - - Foul Sewer (Assumed Route)
- Combined Sewer
- - - Gas
- Water
- Telecoms
- Electric
- Unknown

- Notes**
- The positions of services and plant shown on this drawing are indicative only and reflect the level of information obtained from a survey carried out by 'Technics Group' in August 2019. No guarantee is given for the accuracy of this information and it is intended for general guidance only.
 - Services may exist at various depths and their routes may deviate within the vicinity of the routes shown. The information must not be relied upon for excavation or other works. The onus of locating the services before using mechanical excavator or other plant, rests entirely upon the contractor.
 - Where utilities are indicated there may be multiple cables present.
 - Other utilities may be present underground that are not shown on this drawing. Before any works are undertaken, the contractor is to ensure they are satisfied that the works area is utility free or that any identified utility can be managed safely.
 - Contractor should review all factual information related to utilities, liaise with statutory authorities and undertake further checks and surveys to ascertain location and depth of utilities prior to undertaking intrusive, construction or diversion works.
 - Utility location and depth should be read at the appropriate accuracy in accordance with PAS128.
 - Refer to MEP drawings for the utility strategy and how the services are to be removed and at what stage of the project.
 - The existing drainage of the school site will need to be accommodated during construction. Details to be confirmed at future design stages.

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|-------------------------|----------|----|------|------|
| P02 | 24/09/21 | RL | JN | IA |
| Issued for RIBA Stage 3 | | | | |
| Issue | Date | By | Chkd | Appd |

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Client
MIMWEP
Rhondda Cynon Taf County Council

Project Title
RCT Batch Primary

Drawing Title
**Penygawsi
Existing Utilities**

| | | | |
|-------------|-------------------------------------|------|------------|
| Scale at A1 | 1:500 | Role | Civils |
| Suitability | S3- Suitable for Review and Comment | | |
| Job No | 281143 | Rev | P02 |
| Drawing No | RH0401-ARP-ZZ-00-DR-C-00021 | | |



Legend

| | |
|--|------------------------------|
| — | Site Boundary |
| — | Proposed Contour |
| — | Depth of Cut |
| — | Depth of Fill |
| — | Retaining structure |
| - - - | Possible retaining structure |

Notes

1. Cut and fill depths shown are based on the difference between the proposed finished levels and the existing ground level.
2. All levels at the site boundary are retained at existing level.

Topographical survey is not available. 2-3m tall retaining structure may be required if earthwork solution is not possible.

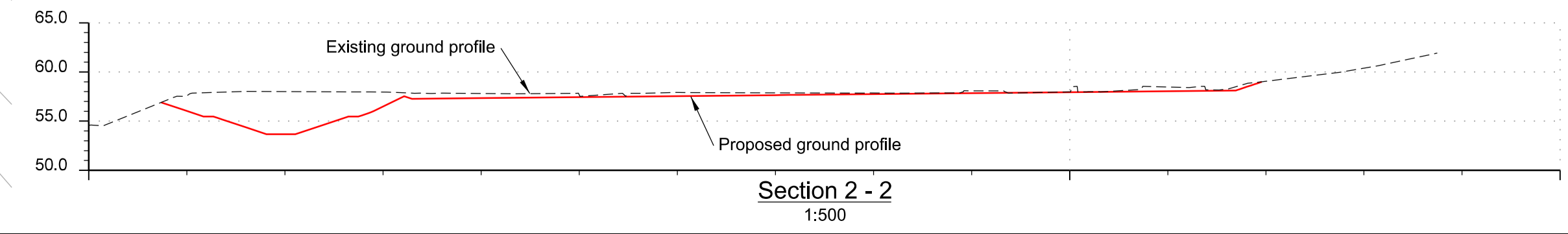
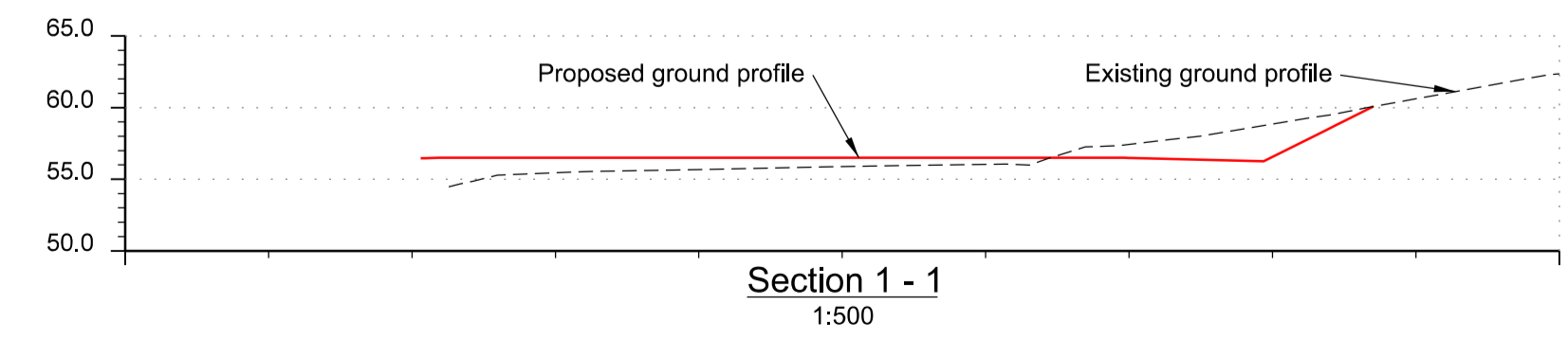
Footpath slope to be reviewed in next Stage

Existing access road levels retained

Indicative attenuation pond location and earthworks. Invert level to be reviewed and earthworks refined in the next Stage

Retaining structure or ground improved (if possible) required

Existing playing field levels retained



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|-------------------------|----------|----|------|------|
| P02 | 24/09/21 | CB | JN | IA |
| Issued for RIBA Stage 3 | | | | |
| P01 | 24/05/21 | DS | JN | IA |
| Issued for Information | | | | |
| Issue | Date | By | Chkd | Appd |

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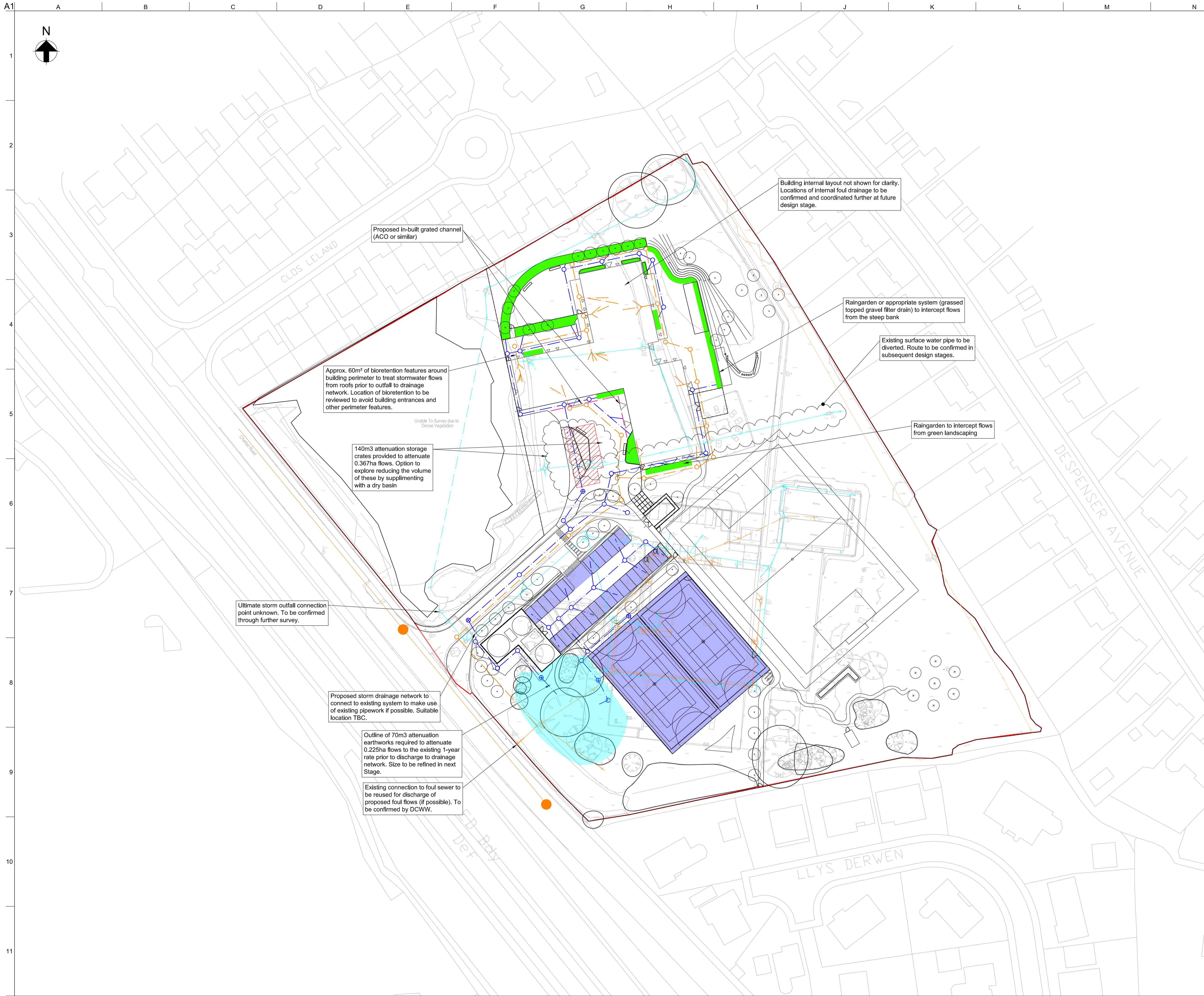
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Client
MIMWEP
Rhondda Cynon Taf County Council

Project Title
RCT Batch Primary

Drawing Title
Penygawsi
External Finished Levels

| | | | |
|-------------|-------------------------------------|------|------------|
| Scale at A1 | 1:500 | Role | Civils |
| Suitability | S3- Suitable for Review and Comment | | |
| Job No | 281143 | Rev | P02 |
| Drawing No | RH0401-ARP-ZZ-00-DR-C-00031 | | |



Legend

- Site Boundary
- Existing Storm Sewer
- - - Existing Storm Sewer (Assumed Route)
- Existing Foul Sewer
- - - Existing Foul Sewer (Assumed Route)
- Existing Combined Sewer
- █ Proposed Bioretention
- Proposed Storm Drainage
- ⊗ Proposed Flow Control
- Proposed In-Built Fall Grated Channel
- █ Proposed Detention Basin
- █ Proposed Porous Paving
- Proposed Foul Drainage

- Notes**
1. Do not scale from this drawing.
 2. The details shown on this drawing are based on a RIBA Stage 3 design produced for MIMWEP Stage 2. The details will need to be reviewed and revised during subsequent design stages.
 3. The topographic survey detail shown on this drawing is based on a survey carried out by 'Technics Group' in September 2019. No responsibility can be taken for the accuracy of this survey.
 4. All levels are shown above ordnance datum (mAOD)
 5. Storm drainage proposals to be agreed with RCT SAB officer including form and location of treatment/attenuation and the outfalling discharge rate.
 6. Attenuation sizes are based on attenuating all return periods up to 1:100 to the 1:1 year discharge rate. The area and volume of attenuation required is subject to agreement with the SAB and DCWW.
 7. Manhole and pipe sizes/locations to be confirmed in subsequent design stages.
 8. Awaiting soakaway test results to determine if a soakaway solution is acceptable. Further Ground Investigation works may be required.
 9. Foul and storm drainage provision to be retained for the operational school buildings during construction.
 10. Continued coordination with the landscape architect required through the subsequent design stages.
 11. Location of rainwater downpipes to be confirmed at future design stages and drainage design to be updated. Locations of bioretention features are indicative and liable to change as a result. Location of attenuation, rain gardens and pipe routes to be coordinated through future design stages.

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|-------------------------|----------|----|------|------|
| P02 | 24/09/21 | RL | JN | IA |
| Issued for RIBA Stage 3 | | | | |
| P01 | 24/05/21 | DS | JN | IA |
| Issued for Information | | | | |
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Project Title
RCT Batch Primary

Drawing Title
Penygawsi
Proposed Drainage

Scale at A1 1:500 Role **Civils**

Suitability **S3- Suitable for Review and Comment**

Job No **281143** Rev **P02**

Drawing No **RH0401-ARP-ZZ-00-DR-C-00041**