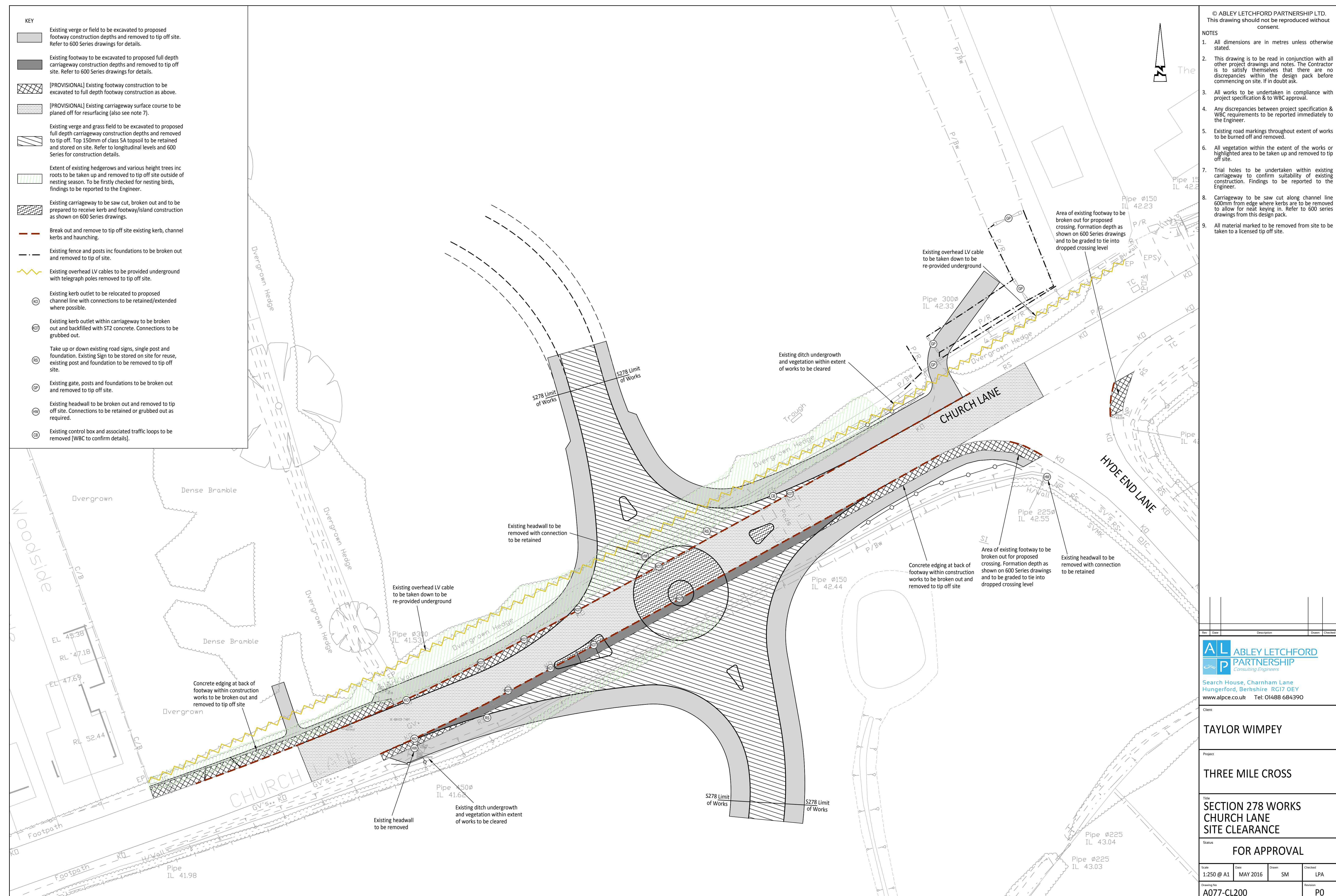
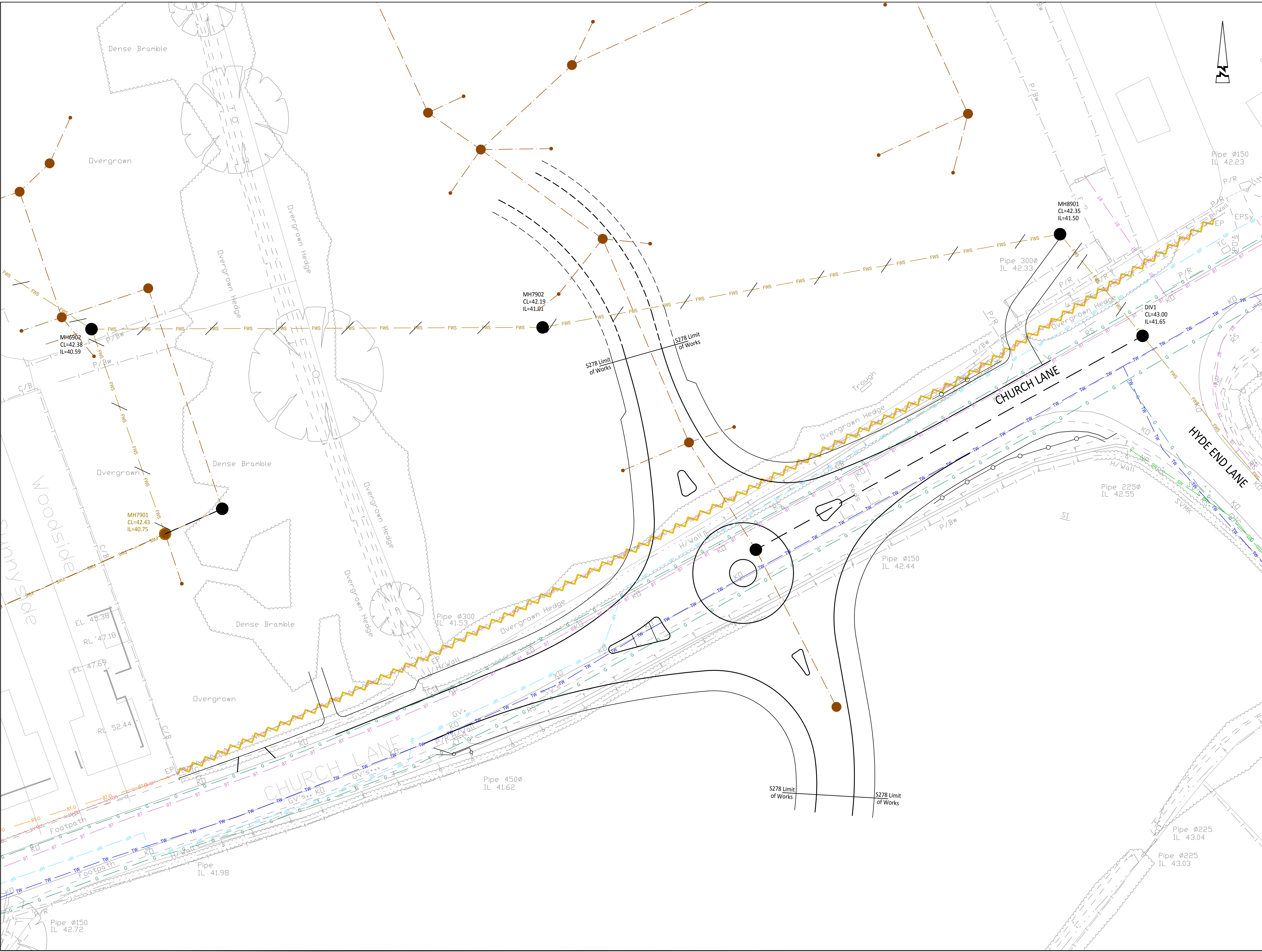








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NOTES

1. Do not scale from this drawing.
2. The information provided on this drawing about the existing utility services is based on historic records provided by the statutory utilities. The actual position and status of any mains and services must be verified and established on site. This drawing is provided for information only.
3. The information on this drawing is given without obligation or warranty. No liability of any kind whatsoever is accepted by ALP, its agents or servants for any errors or omissions.
4. Services to buildings are not shown but it must be assumed that any existing building is served with live supplies until proven otherwise. Written confirmation that a supply is dead must be obtained from the relevant utility.
5. Cables to street lighting, road signs and illuminated bollards are not shown but must be assumed to exist.
6. The location of any mains and services must be undertaken by hand dug trial holes. The approval of the appropriate utility must be sought before any mechanical plant is used.
7. Underground services must be located in accordance with HSE Guidance note HS (G) 47.
8. Overhead power lines must be dealt with in accordance with HSE Guidance Note GS 6 (Third edition).
9. For clarity existing plant is represented by single lines. Please note, this does not indicate the number of cables, ducts and pipes that may exist in the location indicated.
10. An enabling investigation prior to commencement on site is to be undertaken to confirm depths of services within the proposed carriageway.
11. This drawing is to be read in conjunction with all other project drawings and notes. The Contractor is to satisfy themselves that there are no discrepancies within the design pack before commencing on site. If in doubt ask.

KEY EXISTING SERVICES

POTABLE WATER - THAMES WATER

- TW Distribution main

SEWERS - THAMES WATER

- SW Surface Water Sewer
- FWS Foul Water Sewer

GAS - SCOTIA GAS NETWORKS

- G Low pressure
- MP Medium pressure

ELECTRICITY - SCOTTISH AND SOUTHERN ELECTRIC

- LV OH Overhead LV

TELECOM

- BT BT Underground
- BT-O BT overhead

KEY PROPOSED/MODIFIED SERVICES

- FWS Existing foul sewer to be abandoned
- Existing overhead LV cables to be provided underground
- Proposed foul sewer diversion

| Rev | Date | Description | Drawn | Checked |
|-----|------|-------------|-------|---------|
|     |      |             |       |         |

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Client

**TAYLOR WIMPEY**

Project

**THREE MILE CROSS**

Title

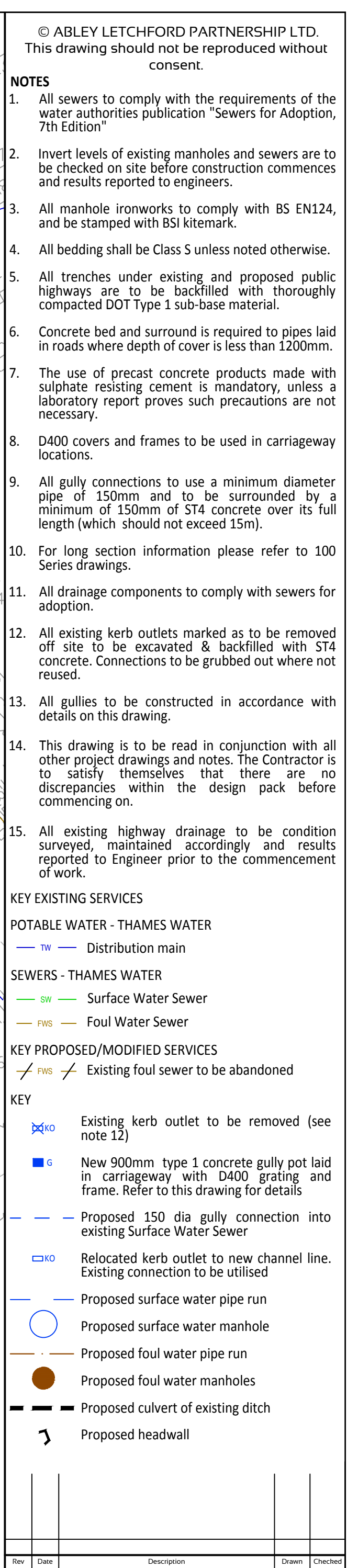
**SECTION 278 WORKS  
CHURCH LANE  
EXISTING UTILITIES**

Status

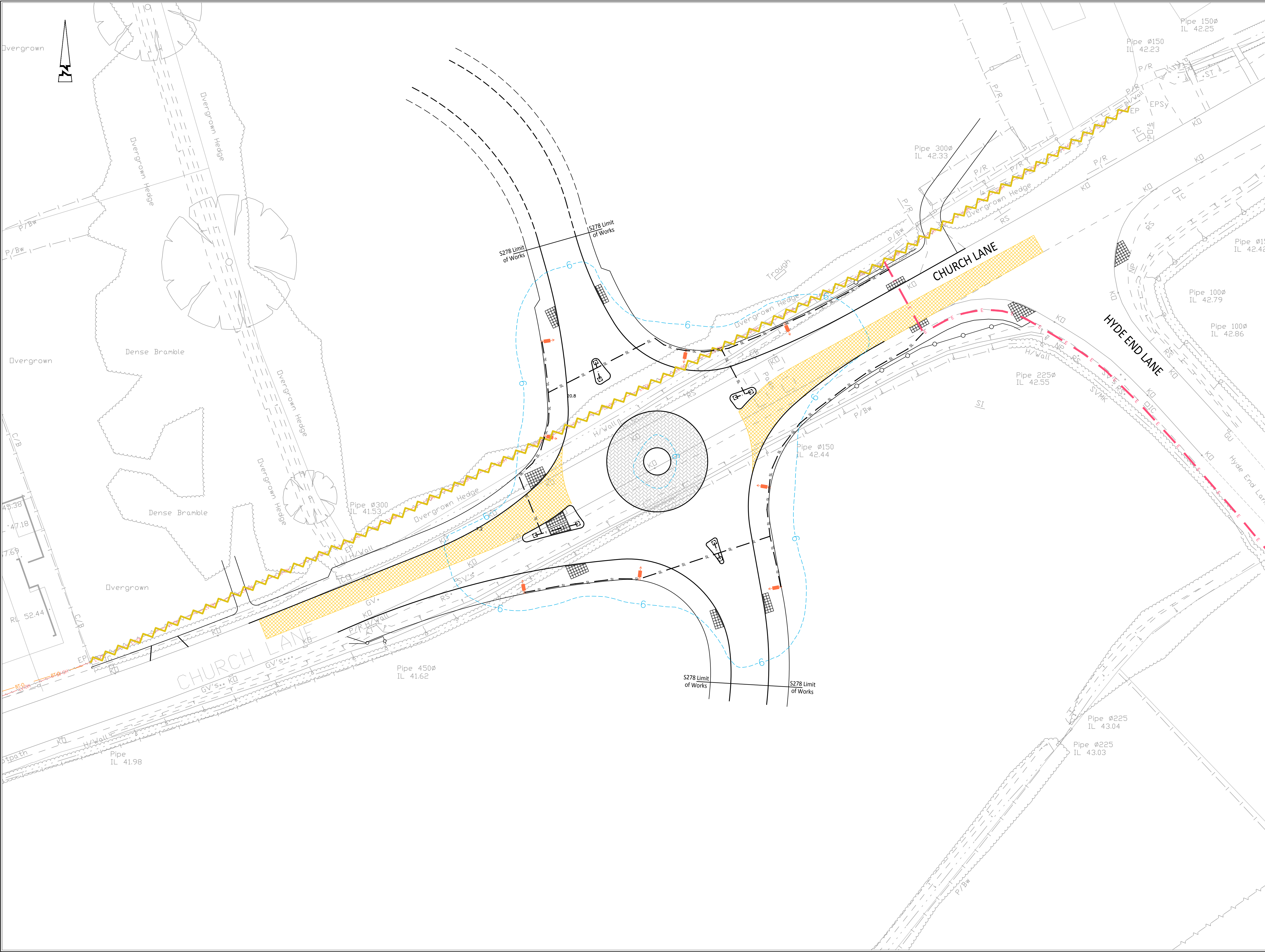
**FOR APPROVAL**

| Scale      | Date     | Drawn | Checked |
|------------|----------|-------|---------|
| 1:250 @ A1 | MAY 2016 | SM    | LPA     |

Drawing No. **A077-CL210** Revision **P0**



- |                                                                                                                                                                   |                                |                           |                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------------|----------------------------------|
|  <b>ABLEY LETCHFORD</b><br><b>PARTNERSHIP</b><br><i>Consulting Engineers</i> |                                |                           |                                  |
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| <b>Client</b><br><br><b>TAYLOR WIMPEY</b>                                                                                                                         |                                |                           |                                  |
| <b>Project</b><br><br><b>THREE MILE CROSS</b>                                                                                                                     |                                |                           |                                  |
| <b>Title</b><br><br><b>SECTION 278 WORKS</b><br><b>CHURCH LANE</b><br><b>DRAINAGE LAYOUT</b>                                                                      |                                |                           |                                  |
| <b>Status</b><br><br><b>FOR APPROVAL</b>                                                                                                                          |                                |                           |                                  |
| <b>Scale</b><br><b>AS SHOWN @ A1</b>                                                                                                                              | <b>Date</b><br><b>MAY 2016</b> | <b>Drawn</b><br><b>SM</b> | <b>Checked</b><br><br><b>LPA</b> |
| <b>Drawing No</b><br><b>A077-CL500</b>                                                                                                                            |                                |                           | <b>Revision</b><br><br><b>P0</b> |



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NOTES

- All dimensions are in metres unless otherwise stated.
- The Contractor shall contact all utilities companies prior to commencing and excavation. It is the Contractor's responsibility to locate the exact position of all underground and overhead services, cables, pipes etc prior to the excavations and to take all necessary protective measures.
- This drawing is to be read in conjunction with all project drawings and notes. The Contractor is to satisfy themselves that there are no discrepancies within the design pack before commencing on site. If in doubt ask.
- All lighting equipment to be undertaken in compliance with WBC lighting and cabling specifications.
- Trial holes are to be dug prior to works commencing to identify the suitability of the street lighting columns proposed locations.
- Street lighting cable routes and supply to be confirmed by SSE.
- Lighting criteria based on BS EN 5489 Pt1 C3=15 lux ave, 0.4 Uo.
- Column height of 8m required to achieve 0.4 Uo.
- Photocell or CMS node will need to be added as per WBC specification to control luminaire switching.

KEY

- 8m Iridium G3 GRN65 DW BGP382 DW GRN65/- No lamp(s)- GRN65/740/- candela file 'BGP382 1xGRN65\_740 DW.Idt' 1 lamp(s) per luminaire 6537 initial lumens per lamp Maintenance Factor = 0.740 watts per luminaire = 46 Outreach (from mounting axis to photometric center)= 500mm tilt angle= 5 deg mounting height= 8m number locations= 8 number luminaires= 8 kw all locations= 0.4
- 6 lux contour
- Existing SSE Overhead LV
- Existing overhead LV cables to be provided underground [proposed works]
- Approximate route of new LV cable and duct installed as part of new street lighting for Ridge SANG on Hyde End Lane
- Proposed black 100mm HDPE street light ducting (see note 6)
- Proposed orange 100mm twin wall UPVC illuminated bollard ducting (see note 6)
- Proposed Rebound Signmaster LED Bollard by Glasdon or similar approved

| Rev | Date | Description | Drawn | Checked |
|-----|------|-------------|-------|---------|
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**AL**  
**P**

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Client

**TAYLOR WIMPEY**

Project

**THREE MILE CROSS**

Title

**SECTION 278 WORKS  
CHURCH LANE  
STREET LIGHTING**

Status

**FOR APPROVAL**

| Scale      | Date     | Drawn | Checked |
|------------|----------|-------|---------|
| 1:250 @ A1 | MAY 2016 | SM    | LPA     |

| Drawing No  | Revision |
|-------------|----------|
| A077-CL1400 | P0       |