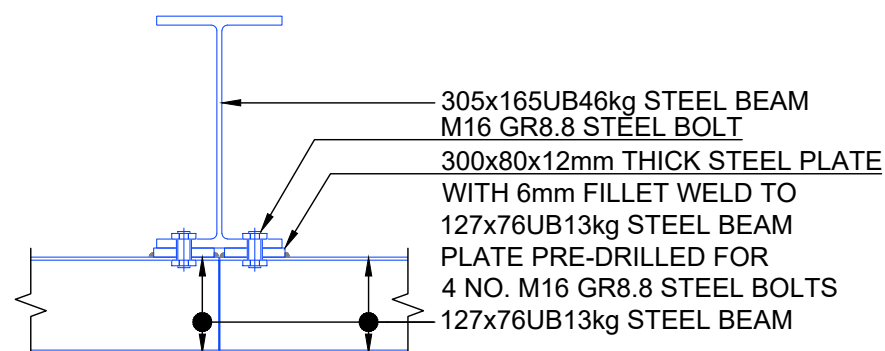
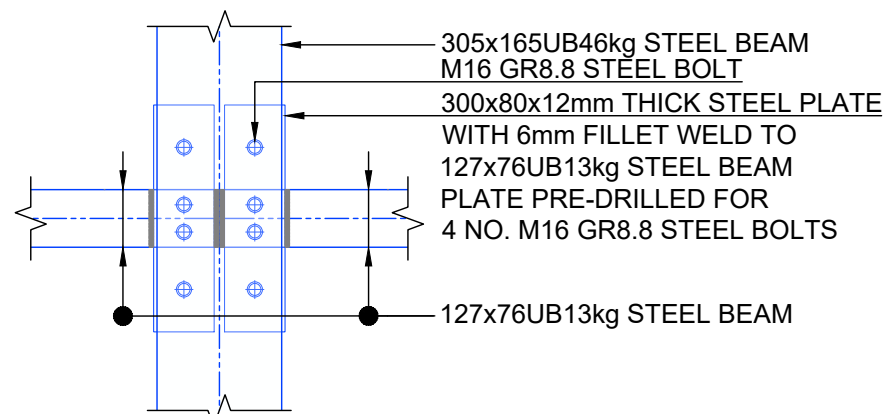




DETAIL SECTION STEEL BEAM CONNECTION
SCALE: 1:10

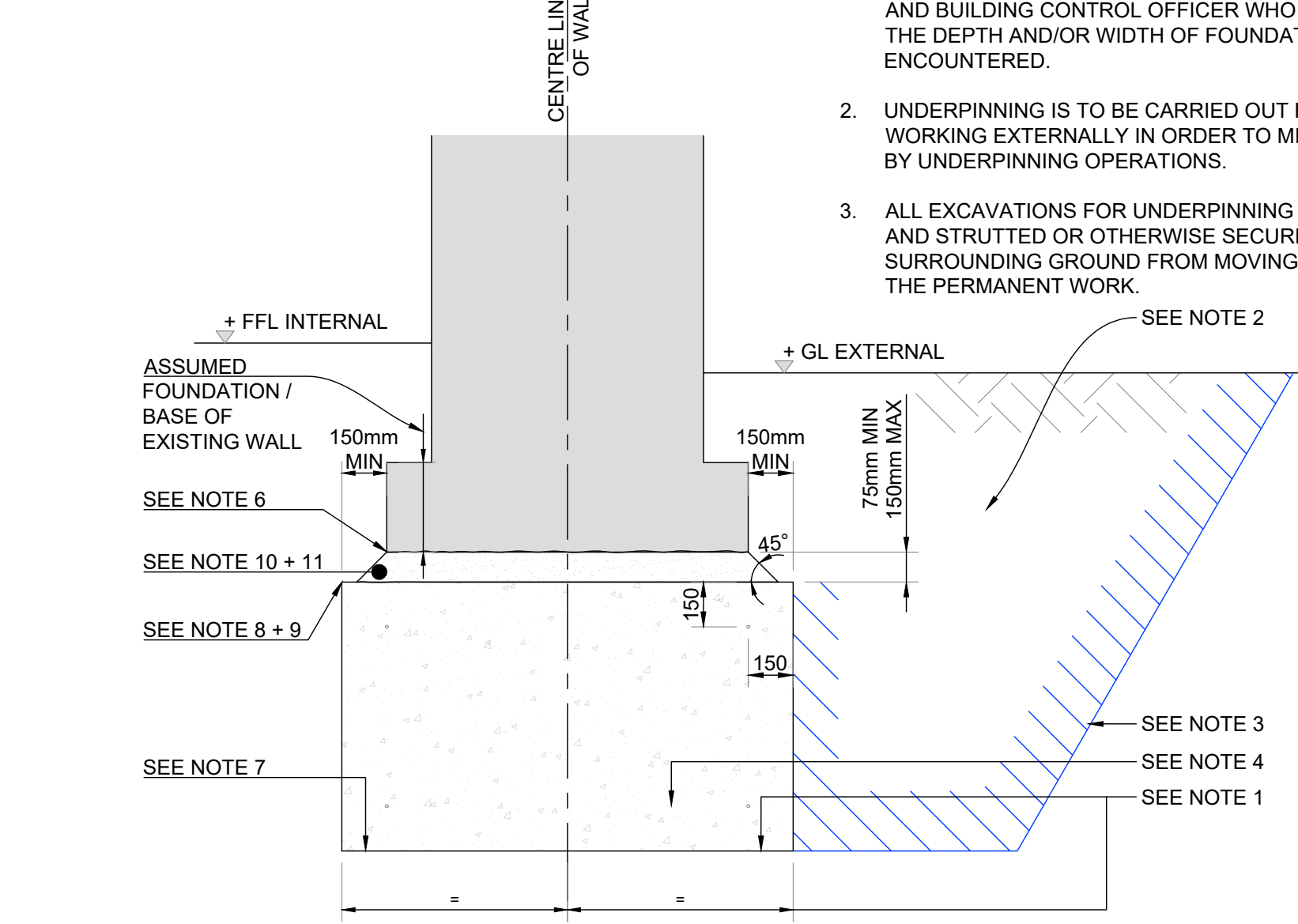


DETAIL PLAN STEEL BEAM CONNECTION
SCALE: 1:20

SUPPORT MASONRY OVER
REMOVE EXISTING LINTELS + FIT STAINLESS
STEEL CURVED LINTELS FOR ARCHED HEAD
OVER WITH 200mm END BEARING
HEIGHT FROM FIRST FLOOR FFL TO UNDERSIDE OF
203x133UB25kg LIFTING BEAM: 2.5m
ON NEW BEARING PAD EACH SIDE - TYPICAL
215x450x65mm PRECAST CONCRETE
NEW BEARING PAD IN EXISTING WALL ON
215x450x215mm BRICK IN NHL 5.0
2 NO. PROPOSED 203x133UB25kg STEEL BEAMS
TO TIE LIFT WALL + EXISTING WALL TOGETHER
ON NEW BEARING PAD EACH SIDE - TYPICAL
215x450x65mm PRECAST CONCRETE
NEW BEARING PADS IN EXISTING WALL ON
215x450x215mm BRICK IN NHL 5.0
EXISTING 280x75mm JOISTS AT 400mm C/C TO BE RETAINED
REPAIR JOIST ENDS AT FRONT ELEVATION WITH
GALVANISED STEEL ANGLE TO DETAIL
SUPPORT MASONRY OVER
REMOVE EXISTING LINTELS + FIT STAINLESS
STEEL CURVED LINTELS FOR ARCHED HEAD
OVER WITH 200mm END BEARING
PROPOSED 127x76UB13kg STEEL BEAM ON
NEW BEARING PAD EACH END - TYPICAL 215x450x65mm
PRECAST CONCRETE ON 215x450x215mm BRICK IN NHL 5.0
SEE DETAIL FOR STEEL CONNECTION ABOVE
2 NO. PROPOSED 305x165UB46kg STEEL BEAMS PLACED
BETWEEN EXISTING JOISTS ON NEW BEARING PAD EACH
END - TYPICAL 215x450x65mm PRECAST CONCRETE ON
215x450x215mm BRICK IN NHL 5.0
SEE DETAIL FOR STEEL CONNECTION ABOVE
FLOOR FINISH TO ARCHITECTS SPECIFICATION ON
75mm PROPRIETARY SCREED + UNDERFLOOR
HEATING WITH PERIMETER INSULATION TURNED UP AT
SCREED EDGE ON POLYTHENE SLIP SHEET ON 125mm
THICK RIGID INSULATION ON RADON BARRIER ALL TO
ARCHITECTS SPECIFICATION ON
150mm CONCRETE SLAB WITH
A142 FABRIC MESH REINFORCEMENT ON
50mm T3 BLINDING TO SR 21 ANNEX E ON
250mm MINIMUM COMPACTED APPROVED + CERTIFIED
T2 STONE TO SR 21 ANNEX E (SEE SPECIFICATION)
300mm WIDE REINFORCED CONCRETE RISING WALL
450x3000x450mm DEEP C28/35 CONCRETE CAP
WITH MINI-PILES

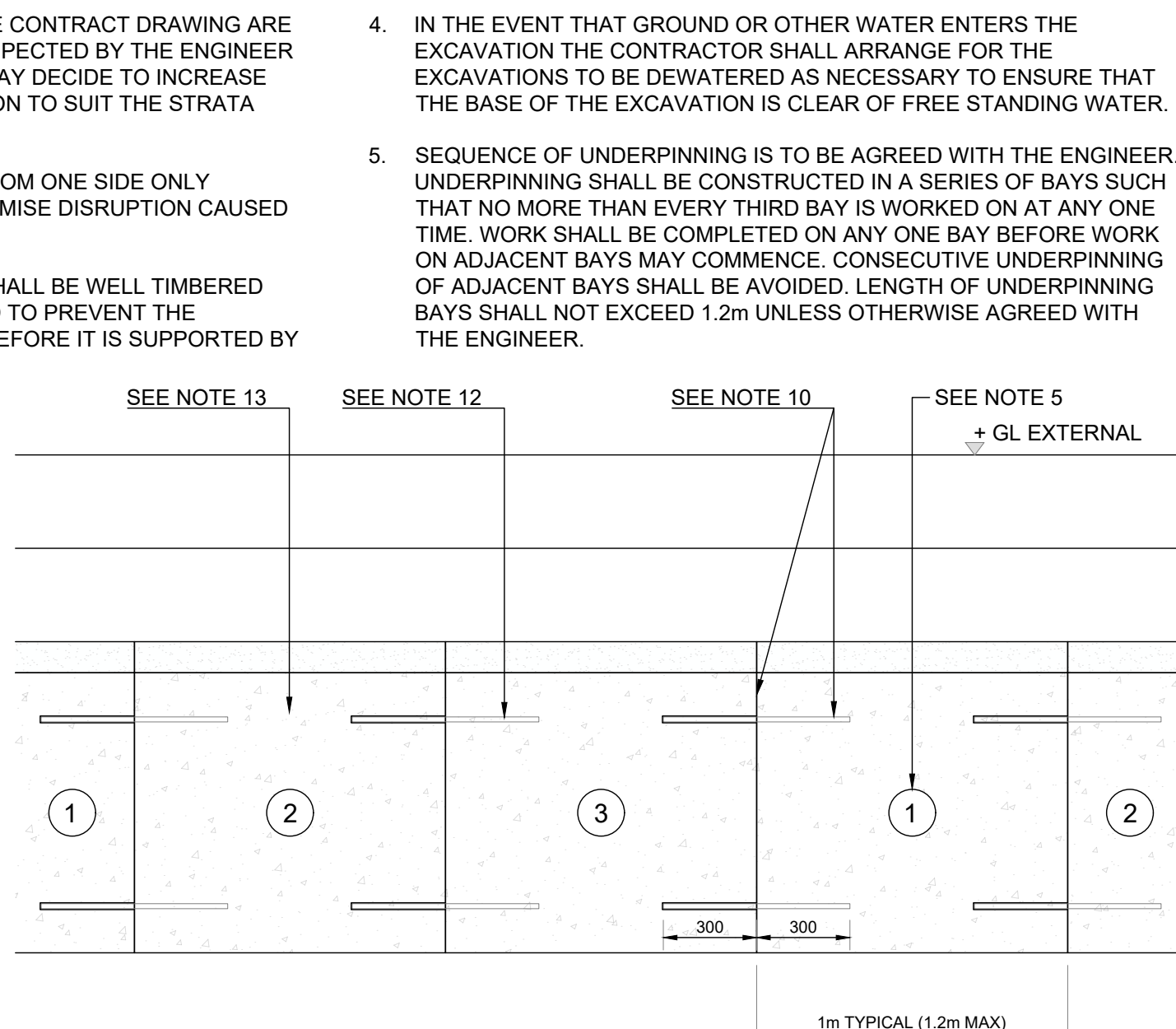
SECTION D1-D1
SCALE: 1:50

TYPICAL UNDERPINNING DETAILS
SCALE: 1:20



TYPICAL SECTION

SHEET SIZE : A1
0mm 50mm 100mm



TYPICAL ELEVATION

- THE DEPTHS AND WIDTHS SHOWN ON THE CONTRACT DRAWING ARE MINIMUM DIMENSIONS AND ARE TO BE INSPECTED BY THE ENGINEER AND BUILDING CONTROL OFFICER WHO MAY DECIDE TO INCREASE THE DEPTH AND/OR WIDTH OF FOUNDATION TO SUIT THE STRATA ENCOUNTERED.
- UNDERPINNING IS TO BE CARRIED OUT FROM ONE SIDE ONLY WORKING EXTERNALLY IN ORDER TO MINIMISE DISRUPTION CAUSED BY UNDERPINNING OPERATIONS.
- ALL EXCAVATIONS FOR UNDERPINNING SHALL BE WELL TIMBERED AND STRUTTED OR OTHERWISE SECURED TO PREVENT THE SURROUNDING GROUND FROM MOVING BEFORE IT IS SUPPORTED BY THE PERMANENT WORK.
- IN THE EVENT THAT GROUND OR OTHER WATER ENTERS THE EXCAVATION THE CONTRACTOR SHALL ARRANGE FOR THE EXCAVATIONS TO BE DEWATERED AS NECESSARY TO ENSURE THAT THE BASE OF THE EXCAVATION IS CLEAR OF FREE STANDING WATER.
- SEQUENCE OF UNDERPINNING IS TO BE AGREED WITH THE ENGINEER. UNDERPINNING SHALL BE CONSTRUCTED IN A SERIES OF BAYS SUCH THAT NO MORE THAN EVERY THIRD BAY IS WORKED ON AT ANY ONE TIME. WORK SHALL BE COMPLETED ON ANY ONE BAY BEFORE WORK ON ADJACENT BAYS MAY COMMENCE. CONSECUTIVE UNDERPINNING OF ADJACENT BAYS SHALL BE AVOIDED. LENGTH OF UNDERPINNING BAYS SHALL NOT EXCEED 1.2m UNLESS OTHERWISE AGREED WITH THE ENGINEER.
- THE UNDERSIDE OF THE EXISTING FOUNDATION SHALL BE CLEANED OF LOOSE MATERIAL, LEVELLED AND KEPT FREE FROM ANY DELETERIOUS MATERIAL PRIOR TO CONCRETING.
- PLACING OF CONCRETE SHALL COMMENCE IMMEDIATELY AFTER THE BOTTOM OF EXCAVATION HAS BEEN EXPOSED. IF IT IS LIKELY THAT THE BOTTOM OF THE EXCAVATION WILL BE AFFECTED BY EXPOSURE TO THE ATMOSPHERE, AS WITH CLAY SOILS, THE LAST 100mm OF THE EXCAVATION SHALL BE LEFT UNTIL IMMEDIATELY PRIOR TO CONCRETING. THE BOTTOM OF THE EXCAVATION SUPPORTING THE UNDERPINNING SHALL BE SEALED WITH CONCRETE IMMEDIATELY AFTER INSPECTION HAS SHOWN IT TO BE SATISFACTORY.
- THE TOP OF THE UNDERPINNING CONCRETE SHALL BE KEPT 75mm TO 150mm BELOW THE UNDERSIDE OF THE EXISTING FOUNDATION TO ALLOW FOR DRY-PACKING OR CONCRETE FORMED TO ABOVE BOTTOM OF FOUNDATION LEVEL AND VIBRATED TO ENSURE FULL CONTACT BETWEEN FOUNDATION AND UNDERPINNING.
- THE TOP OF THE UNDERPINNING CONCRETE SHALL BE LEFT SMOOTH AND FLAT TO RECEIVE DRY-PACKING.
- VERTICAL STOP-ENDS OF ADJACENT BAYS SHALL BE THOROUGHLY CLEANED AND FREE FROM DELETERIOUS MATERIAL PRIOR TO CONCRETING. 4No. 600mm LONG, 16mm DIAMETER, HIGH YIELD REINFORCING DOWEL BARS ARE TO BE EMBEDDED 300mm INTO THE END OF EACH BAY. THESE SHALL BE CONCRETED IN AS EACH BAY IS CAST OR SHALL BE DRILLED AND FIXED USING 'LOKSET' (P40) POLYESTER RESIN STRICTLY IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AFTER THE ADJACENT EXCAVATION IS COMPLETE.
- BACKFILLING:-
 - TOPSOIL AREAS:- IF SUITABLE GRANULAR MATERIAL IS AVAILABLE ON SITE THEN SELECTED GRANULAR FILL MAY BE USED FOR BACKFILLING SUBJECT TO THE PERMISSION OF THE ENGINEER. CLAY AND OTHER UNSUITABLE MATERIAL EXCAVATED DURING UNDERPINNING SHALL NOT BE USED FOR BACKFILLING AND SHALL BE REMOVED FROM THE SITE. IF NO SUITABLE MATERIAL EXISTS ON SITE THEN MOT TYPE 2 GRANULAR MATERIAL SHALL BE IMPORTED AND USED FOR BACKFILLING. BACKFILLING SHALL BE COMPACTED IN

- LAYERS NOT EXCEEDING 200mm THICK UP TO A DEPTH OF 200mm BELOW FINISHED GROUND LEVEL. FINAL LEVELS SHALL BE MADE UP USING TOPSOIL.
- PAVED AREAS/HARDSTANDINGS ETC.: WHERE PAVED AREAS, PATHS, DRIVEWAYS, HARDSTANDINGS ETC. ARE TO BE REINSTATED ONE OF THE FOLLOWING TWO METHODS SHALL BE USED:-
 - BACKFILL WITH MOT TYPE 2 AS FOR GENERAL BACKFILL TO TOPSOIL AREAS AND PROVIDE 100mm THICK CONCRETE SLAB IN GRADE C35 CONCRETE, REINFORCED WITH A142 MESH BENEATH PAVING OR OTHER FINISH.
 - BACKFILL USING DRY-LEAN CONCRETE COMPACTED IN 200mm THICK LAYERS TO FULL DEPTH AND PAVE DIRECTLY ON TOP.
 - REINFORCEMENT FOR DOWEL BARS TO BE TYPE 2 REINFORCING BARS TO BS 4449.
 - MASS CONCRETE FOR UNDERPINNING:-

CONCRETE IS TO BE GRADE C20. MAXIMUM AGGREGATE SIZE TO BE 20mm.

AGGREGATES TO COMPLY WITH BS 882.

CEMENT TO COMPLY WITH BS 12.

MINIMUM CEMENT CONTENT TO BE 220kg/m³.

MAXIMUM FREE WATER CEMENT RATIO TO BE 0.65.

SLUMP TO BE 75mm.

CONCRETE IS TO COMPLY TO BS 5328.

ORDINARY PORTLAND CEMENT SHALL BE USED THROUGHOUT.

CONCRETE MIXES ARE TO BE DESIGNED MIXES.

ALL READY MIXED CONCRETE SHALL BE FROM A SUPPLIER APPROVED BY THE ENGINEER AND CERTIFICATES SHALL BE FORWARDED TO THE ENGINEER.

ALL SITE BATCHED CONCRETE SHALL BE PROPERLY MIXED AND ALL MATERIALS SHALL BE ACCURATELY GAUGED EITHER BY WEIGHT OR VOLUME USING GAUGE BOXES.

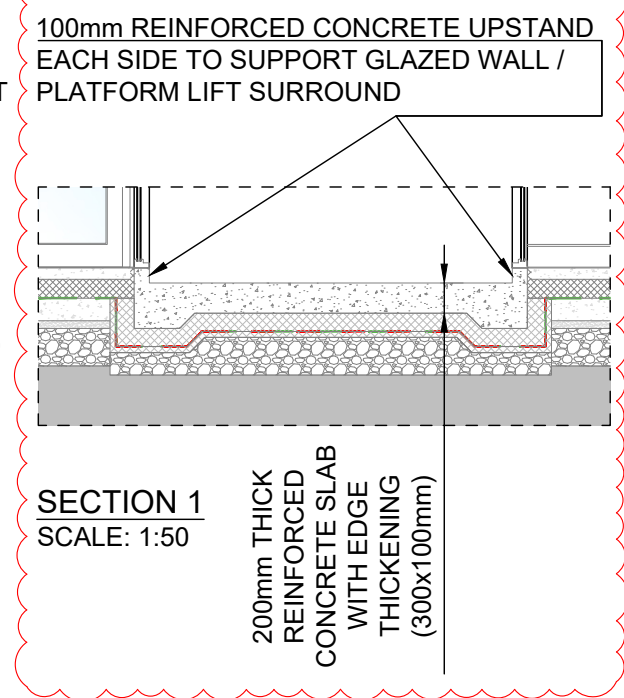
ALL WATER SHALL BE FROM A CLEAN SUPPLY.

ALL AGGREGATES STORED ON SITE SHALL BE STORED ON CLEAN TARPAPULINS OR BOARDS AND SHALL BE KEPT COVERED TO PREVENT CONTAMINATION.

ALL CEMENT STORED ON SITE SHALL BE STORED CLEAR OF THE GROUND ON PALLETES OR SIMILAR AND SHALL BE PROTECTED FROM THE WEATHER.

- General Notes :
- No part of this document may be re-produced or transmitted in any form or stored in any retrieval system without the written permission of the Consulting Engineer, David Kelly Partnership, as copyright holder except as agreed for use on the project for which the document was originally issued.
 - The contractor is responsible for checking all levels and dimensions on site and shall refer all discrepancies to the Engineer.
 - Only drawings issued for CONSTRUCTION shall be used for construction purposes.
 - Work to figured dimensions only. Do not scale print.
 - Check size of drawing sheet against dimension marks at bottom left hand corner of sheet.

FLOOR FINISH TO ARCHITECTS SPECIFICATION ON
75mm PROPRIETARY SCREED + UNDERFLOOR
HEATING WITH PERIMETER INSULATION TURNED UP AT
SCREED EDGE ON POLYTHENE SLIP SHEET ON 125mm
THICK RIGID INSULATION ON RADON BARRIER ALL TO
ARCHITECTS SPECIFICATION
PREVIOUS PHASE OF WORKS:
150mm CONCRETE SLAB WITH
A142 FABRIC MESH REINFORCEMENT ON
50mm T3 BLINDING TO SR 21 ANNEX E ON
250mm MINIMUM COMPACTED APPROVED + CERTIFIED
T2 STONE TO SR 21 ANNEX E (SEE SPECIFICATION)
PAVING TO ARCHITECTS SPECIFICATION ON
20mm SAND & CEMENT BASE ON
200mm C16 / 20 LEANMIX CONCRETE ON
50mm CAPPING LAYER ON
PREVIOUS PHASE OF WORKS:
150mm CLEAN BROKEN STONE TO
DoE CLAUSE 804 ON TERRAM



SECTION 1
SCALE: 1:50

TO BE READ IN CONJUNCTION WITH
ARCHITECT'S TENDER DOCUMENTS.

Rev:	Note:	UPDATES TO LIFT
T9	Date:	07 MAY, '26
	Drawn:	JH
	Approved:	JK
Rev:	Note:	UPDATES TO LIFT PIT
T8	Date:	10 APR, '26
	Drawn:	JH
	Approved:	JK



Nelson House, Emmet Place, 10 Ormonde Street,
Youghal, Co. Cork. Kilkenny.
t. +353 (0)24 92412 t. +353 (0)56 7801260
e. info@dkp.ie www.dkp.ie

Project :
TIPPERARY COUNTY COUNCIL:
CAHIR MARKET HOUSE BUSINESS CENTRE
THE SQUARE, CAHIR, CO. TIPPERARY
ARCHITECT: DEATON LYSAGHT ARCHITECTS

Title :
SECTION D1-D1

Purpose of Issue :	Scale :
TENDER	1:50 ; 1:20
Project No. :	Drawing No. :
20185	424
	Issue No. :
	T9