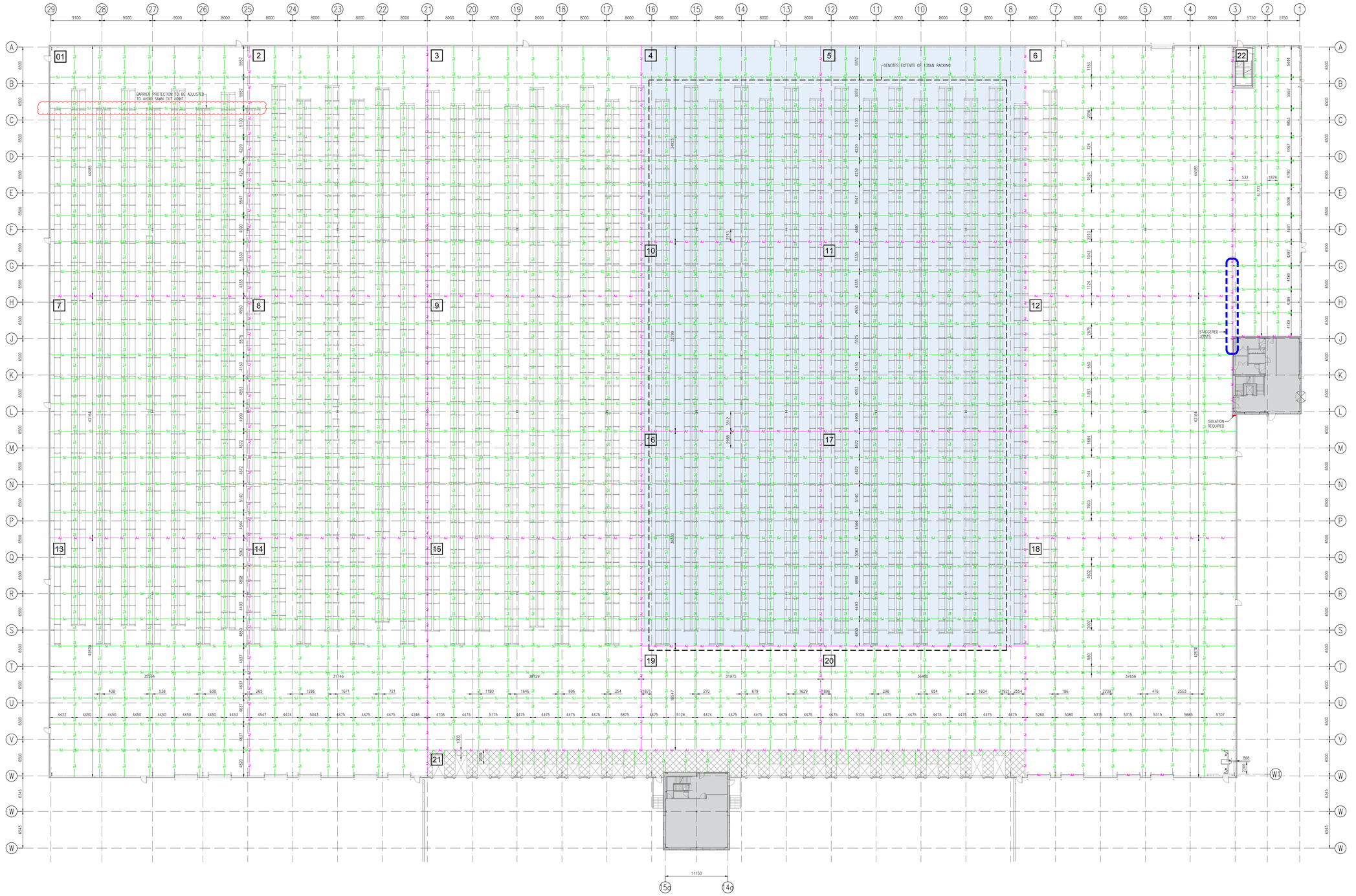
P21-024 Calder Park

Drawing Register: Stanford Flooring

Works Completed:

Warehouse Concrete Floor

Drawing No.	Drawing Title	Rev
P21024-FCL-XX-00-DR-Y-0101	Proposed Joint Layout	AB-C4
P21024-FCL-XX-00-DR-Y-0201	Typical Details Sheet 1	AB-C2
P21024-FCL-XX-00-DR-Y-0202	Typical Details Sheet 2	AB-C2
P21024-FCL-XX-00-DR-Y-0203	Typical Details Sheet 3	AB-C2



Notes:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH FACE CONSULTANTS DRAWING SERIES P21024-FCL-XX-00-DR-Y / FD.22.1023.

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALIST DRAWINGS.

3. ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS STATED OTHERWISE.

4. LOADS STIPULATED IN THE DESIGN TABLE/TABLES ARE INDIVIDUAL LOADS AND ARE NOT CONCURRENT.

5. PLEASE REFER TO DESIGN TABLE FOR MINIMUM MODULUS OF SUBGRADE (k) REQUIREMENTS.

6. THE SUB-BASE MUST BE SUITABLE TO TRANSMIT THE LOAD FROM THE FLOOR SLAB TO THE SUBGRADE. MATERIAL MUST BE WELL CLOSED AT THE SURFACE, NON-DEGRADABLE AND MUST NOT CONTAIN SOFT MATERIALS SUCH AS CHALK AND SANDSTONE. THE SUB-BASE SHALL BE CAPABLE OF CARRYING CONSTRUCTION TRAFFIC WITHOUT SIGNIFICANT DEFORMATION OR RUTTING. THE SUB-BASE SHALL BE FINISHED TO A SURFACE TOLERANCE OF +0/-10mm.

7. PRIOR TO PLACING CONCRETE, ALL ROOF AND WALL SHEETING SHALL BE COMPLETED WHERE PRACTICAL, TO PROVIDE PROTECTION FROM ALL WEATHER RELATED ISSUES. LOADING DOORS SHALL BE FIXED IN PLACE AND OPENINGS SHEETED.

8. WALLS AND EXISTING SLABS SHALL BE PROTECTED FROM CONCRETE SPLASHES.

9. THE SLAB IS TO BE LAID ON GAS MEMBRANE TO SPECIALIST DETAIL.

10. REINFORCEMENT SHALL BE ONE LAYER OF MESH FABRIC, TYPE A193 TO BS4483, UNLESS STATED OTHERWISE.

11. COVER TO ALL REINFORCEMENT TO BE 40mm, UNLESS STATED OTHERWISE.

12. MINIMUM LAP TO FABRIC REINFORCEMENT TO BE 300mm OR 40 TIMES THE BAR DIAMETER, WHICHEVER IS GREATER. ALL LAPS TO BE TIED. EXCESSIVE BUILD-UP OF STEEL FABRIC UNDER SAW-CUTS IS NOT PERMITTED.

13. SPACERS TO BE PLACED AT MAXIMUM 800mm CENTRES, AS PER SECTION 6.2.1 OF TR34 4th EDITION 2013. ADDITIONAL SPACERS MAY BE REQUIRED.

14. FULL CONCRETE MIX DESIGN TO BE ISSUED TO FACE CONSULTANTS FOR REVIEW PRIOR TO CONSTRUCTION.

15. SLAB PENETRATIONS SHALL BE ISOLATED USING 20mm 'MOTHENE' (OR SIMILAR APPROVED), AS PER FACE DETAIL DRAWINGS. SPECIAL CARE IS TO BE TAKEN TO ENSURE THAT THE SLIP MEMBRANE IS LAPPED AND TAPED UP THE SIDE OF THE 'MOTHENE' ISOLATION.

16. CARE SHOULD BE TAKEN TO FULLY COMPACT THE CONCRETE THROUGHOUT THE SLAB PROFILE WITH A 'POKER' TYPE VIBRATOR TO REMOVE ALL ENTRAPPED AIR AND ELIMINATE HONEYCOMBING AND VOIDS. POKER TO BE INSERTED INTO THE CONCRETE IN AN OVERLAPPING PATTERN, ALL ADDITIONAL REINFORCEMENT TO BE SAT ON CHAIRS AND VIBRATED BY HOLDING THE POKER AGAINST THE BARS ENSURING THEY ARE NOT DISPLACED.

17. AFTER THE FINAL POWER TROWELLING OPERATION, THE FLOOR SLAB IS TO BE SPRAYED WITH AN ACRYLIC BASED, CURING, SEALING AND HARDENING MEMBRANE, SUCH AS 'ISEDIO ARMOURCURE' (OR SIMILAR APPROVED).

18. SAWN JOINTS ARE TO BE CUT WITHIN 24 HOURS OF CONCRETE BEING PLACED. SAW CUTS SHALL BE NOMINAL 3mm WIDE AND ¼ – ⅓ DEPTH OF SLAB.

19. JOINT SEALANT

19.1. THE TOP 20mm OF 'MOTHENE' IS TO BE REMOVED AND SEALED WITH A TWO-PART POLYSULPHIDE MASTIC WITH 35% MAF AND SHORE A OF 25 SUCH AS ARBOKOL AC2 PRIOR TO PRACTICAL COMPLETION.

19.2. THE SAWN JOINTS ARE TO BE SEALED JUST PRIOR TO PRACTICAL COMPLETION WITH A ONE-PART HIGH MODULUS MODIFIED POLYMER SEALANT WITH A MAF OF 35% AND SHORE A OF 55 E.G. ARBOMERIC MP20.

19.3. THE STEEL DAY JOINTS ARE TO BE LEFT UNSEALED.

19.4. PROPOSED SEALANTS MUST BE APPROVED BY FACE CONSULTANTS PRIOR TO PROCUREMENT.

19.5. THE SEALANT IS DESIGNED TO BE A PERMANENT APPLICATION AND THE INSPECTION AND MAINTENANCE OF SAID SEALANT IS THE RESPONSIBILITY OF THE TENANT / BUILDING USER. ALL INSPECTION, MAINTENANCE AND CLEANING OPERATIONS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS OF CHAPTER 13, TR34 4th EDITION 2013.

20. SPACING BETWEEN THE CENTRE LINE OF THE RACKING LEGS AND ANY SAWN OR FORMED JOINT IS TO BE A MINIMUM OF 150mm.

21. SPACING BETWEEN FIXINGS INTO THE SLAB AND ANY SAWN OR FORMED JOINT IS TO BE A MINIMUM 5 x HOLE DIAMETER. CARE TO BE TAKEN NOT TO OVER-TIGHTEN MECHANICAL FIXINGS IN THE SLAB.

22. THE SLAB CAN BE USED BY LIGHT TRAFFIC 7 DAYS AFTER IT IS POURED. THE LOADS SHALL NOT EXCEED 30% OF THE DESIGN CAPACITY. THE FLOOR SHALL NOT BE LOADED TO ITS FULL DESIGN CAPACITY BEFORE 28 DAYS HAVE PASSED SINCE POURING.

KEY

- AJ AJ AJ AJ — ISEDIO ARMOURED JOINT
- SJ SJ SJ SJ — SAWN JOINT
- EXTENTS OF 130kN RACKING SYSTEM
- DENOTES ADDITIONAL LAYER OF A193 MESH IN TOP
- DENOTES AREAS BY OTHERS
- A — DENOTES PANEL REFERENCE

AS BUILT

Rev	Drawn	Date	Remarks/Comments
C04	CJL	27.04.2022	Updated to As Built status
C03	CJL	30.03.2022	Dimensions corrected.
C02	HP	22.03.2022	Setting out dimension corrected.
C01	HP	21.03.2022	Joint layout updated due to revised racking layout. Updated to construction status.
P01	MJK	07.02.2022	First issue.

Client: STANFORD

Project: CALDER PARK

Location: WAKEFIELD

Dwg Title: PROPOSED JOINT LAYOUT

Scale @ A0: 1:250 | Status: AS BUILT

FACE CONSULTANTS LTD
Global Flooring Consultants
Dene House, North Road
Kirkburton
Huddersfield, HD8 0RW
United Kingdom
www.face-consultants.com

Drawn:	Date:	Chkd:	Date:	App:	Date:
MJK	07.02.22	HP	07.02.22	CJL	08.02.22

Dwg No: P21024-FCL-XX-00-DR-Y-0101 | Rev: C04

PRIOR TO THE INSTALLATION OF ANY FIXED MHE AND/OR RACKING/MEZZANINE STRUCTURES, THE INSTALLER SHOULD SURVEY THE FLOOR JOINTS TO DETERMINE THEIR FINAL POSITION. SOME VARIANCE FROM THE DIMENSIONS SHOWN ON THIS DRAWING MAY EXIST DUE TO SETTING OUT AND TOLERANCE OF ADJACENT STRUCTURES/STEEL FRAME/JOINT POSITIONS/ FLOOR SHRINKAGE ETC

BUILDING LAYOUT TAKEN FROM:
HTC ARCHITECTS DRAWING NUMBER
P21024-HTC-U1-00-DR-A-100-P5

COLUMN LAYOUT TAKEN FROM:
CAUNTON ENGINEERING DRAWING:
P21024-CEL-U1-XX-DR-X-0001-C1

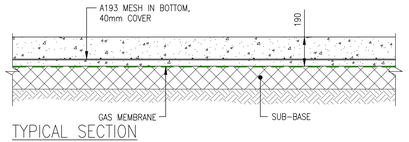
DOCK LAYOUT TAKEN FROM:
CONCAST DRAWING NUMBERS:
P21024-CON-XX-00-DR-X-0011-P2
P21024-CON-XX-00-DR-X-0012-P2
P21024-CON-XX-00-DR-X-0013-P2
P21024-CON-XX-00-DR-X-0014-P2

RACKING LAYOUT TAKEN FROM:
WAREHOUSE STORAGE SOLUTIONS LTD DRAWING NUMBER:
E103925-002 Rev 004

FLOOR DESIGN – ENHANCED SLAB	
SLAB THICKNESS	225mm
REINFORCEMENT	1No LAYER A193 MESH IN BOTTOM, 40mm COVER
CONCRETE STRENGTH	C32/40 (CYLINDER/CUBE)
'k' VALUE FOR DESIGN PURPOSES	0.05N/mm²/mm
FLOOR FLATNESS CLASSIFICATION	FM2 to CONCRETE SOCIETY TR34 4th EDITION
DESIGN LOADS	MAXIMUM RACK LEG LOAD = 130kN MAXIMUM UDL = 50kN/m²
ISEDIO ARMOURED JOINT TYPE	200–250mm
RACKING BASEPLATE DIMENSIONS	100mm x 100mm (ASSUMED CONTACT AREA)
BACK-TO-BACK LEG SPACING	MINIMUM 376mm
SINGLE LEG CENTRE TO JOINT	MINIMUM 150mm

FLOOR DESIGN – WAREHOUSE SLAB	
SLAB THICKNESS	190mm
REINFORCEMENT	1No LAYER A193 MESH IN BOTTOM, 40mm COVER
CONCRETE STRENGTH	C32/40 (CYLINDER/CUBE)
'k' VALUE FOR DESIGN PURPOSES	0.05N/mm²/mm
FLOOR FLATNESS CLASSIFICATION	FM2 to CONCRETE SOCIETY TR34 4th EDITION
DESIGN LOADS	MAXIMUM RACK LEG LOAD = 100kN MAXIMUM UDL = 50kN/m²
ISEDIO ARMOURED JOINT TYPE	150–200mm
RACKING BASEPLATE DIMENSIONS	100mm x 100mm (ASSUMED CONTACT AREA)
BACK-TO-BACK LEG SPACING	MINIMUM 300mm
SINGLE LEG CENTRE TO JOINT	MINIMUM 150mm

190mm SLAB



TYPICAL SECTION

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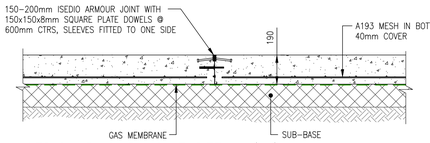
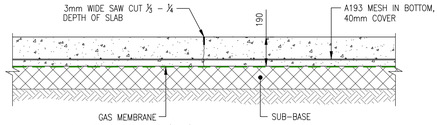


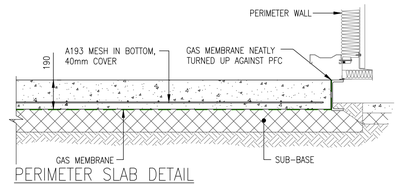
ISEDIO ARMOUR JOINT DETAIL (AJ)
TYPICAL SECTION

SCALE 1:20



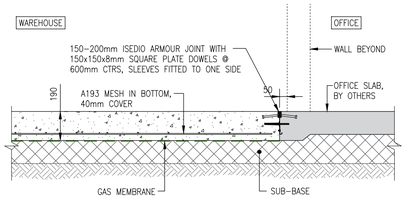
SAWN JOINT DETAIL (SJ)
TYPICAL SECTION

SCALE 1:20



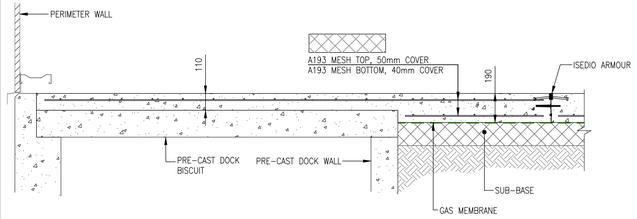
PERIMETER SLAB DETAIL
TYPICAL SECTION

SCALE 1:20



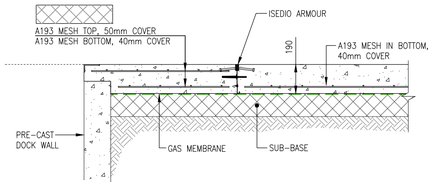
WAREHOUSE / OFFICE SLAB INTERFACE DETAIL
TYPICAL SECTION

SCALE 1:20



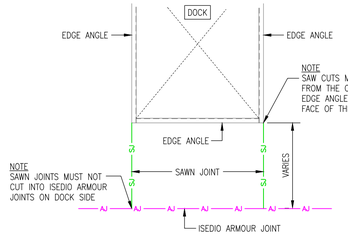
WAREHOUSE / DOCK SLAB INTERFACE
TYPICAL SECTION

SCALE 1:20



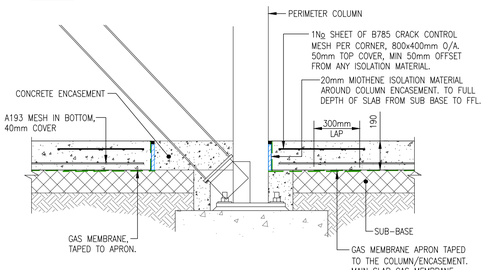
WAREHOUSE / DOCK SLAB INTERFACE
TYPICAL SECTION

SCALE 1:20



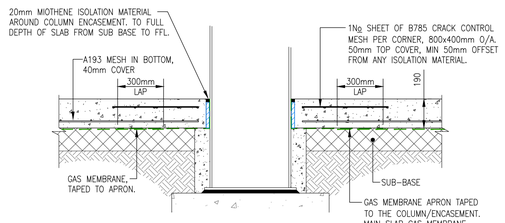
TYPICAL PLAN ON DOCKS

SCALE 1:50



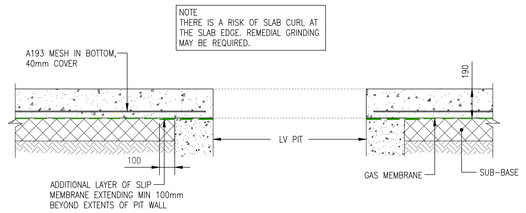
PERIMETER COLUMN BRACING
TYPICAL SECTION

SCALE 1:20



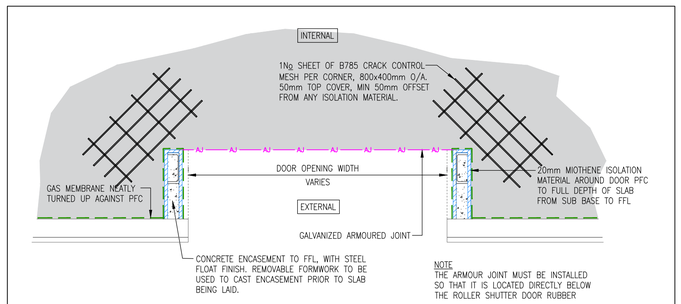
TYPICAL COLUMN ISOLATION SECTION

SCALE 1:20



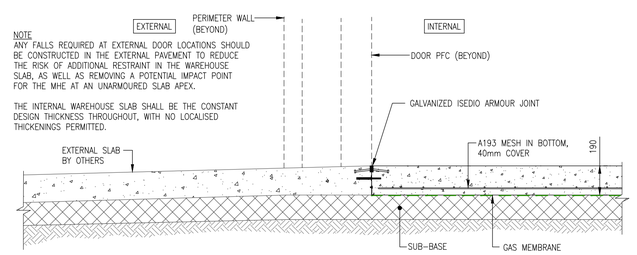
LV PIT DETAIL
SECTION A-A

SCALE 1:20



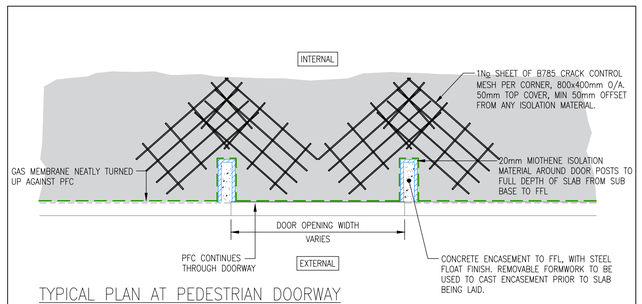
TYPICAL PLAN AT TRAFFICKED DOORWAY

SCALE 1:20



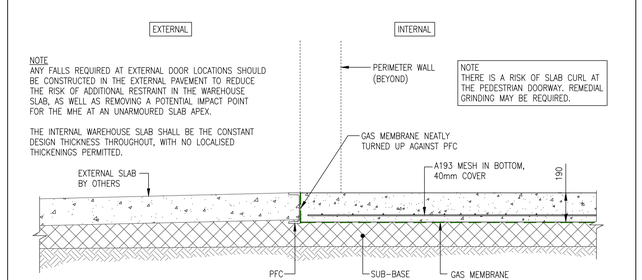
TYPICAL SECTION AT EXTERNAL TRAFFICKED DOORWAY

SCALE 1:20



TYPICAL PLAN AT PEDESTRIAN DOORWAY

SCALE 1:20



TYPICAL SECTION AT PEDESTRIAN EXTERNAL DOORWAY

SCALE 1:20

KEY

AJ AJ AJ AJ	ISEDIO ARMOURED JOINT
CJ CJ CJ CJ	CONSTRUCTION JOINT
SJ SJ SJ SJ	SAWN JOINT
	DENOTES ADDITIONAL LAYER OF A193 MESH IN TOP
	DENOTES AREAS BY OTHERS
A	DENOTES PANEL REFERENCE

FLOOR DESIGN – ENHANCED SLAB	
SLAB THICKNESS	225mm
REINFORCEMENT	1No LAYER A193 MESH IN BOTTOM, 40mm COVER
CONCRETE STRENGTH	C32/40 (CYLINDER/CUBE)
'k' VALUE FOR DESIGN PURPOSES	0.05N/mm²/mm
FLOOR FLATNESS CLASSIFICATION	FM2 to CONCRETE SOCIETY TR34 4th EDITION
DESIGN LOADS	MAXIMUM RACK LEG LOAD = 130kN
	MAXIMUM UDL = 50kN/m²
ISEDIO ARMOURED JOINT TYPE	200-250mm
RACKING BASEPLATE DIMENSIONS	100mm x 100mm (ASSUMED CONTACT AREA)
BACK-TO-BACK LEG SPACING	MINIMUM 376mm
SINGLE LEG CENTRE TO JOINT	MINIMUM 150mm

FLOOR DESIGN – WAREHOUSE SLAB	
SLAB THICKNESS	190mm
REINFORCEMENT	1No LAYER A193 MESH IN BOTTOM, 40mm COVER
CONCRETE STRENGTH	C32/40 (CYLINDER/CUBE)
'k' VALUE FOR DESIGN PURPOSES	0.05N/mm²/mm
FLOOR FLATNESS CLASSIFICATION	FM2 to CONCRETE SOCIETY TR34 4th EDITION
DESIGN LOADS	MAXIMUM RACK LEG LOAD = 100kN
	MAXIMUM UDL = 50kN/m²
ISEDIO ARMOURED JOINT TYPE	150-200mm
RACKING BASEPLATE DIMENSIONS	100mm x 100mm (ASSUMED CONTACT AREA)
BACK-TO-BACK LEG SPACING	MINIMUM 300mm
SINGLE LEG CENTRE TO JOINT	MINIMUM 150mm

Notes:

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18. SAWN JOINTS ARE TO BE CUT WITHIN 24 HOURS OF CONCRETE BEING PLACED. SAW CUTS SHALL BE NOMINAL 3mm WIDE AND ¾ - ⅓ DEPTH OF SLAB.
19. JOINT SEALANT
    19.1. THE TOP 20mm OF 'MIOTHENE' IS TO BE REMOVED AND SEALED WITH A TWO-PART POLYSULPHIDE MASTIC WITH 35% MAF AND SHORE A OF 25 SUCH AS ARBOKOL AG2 PRIOR TO PRACTICAL COMPLETION.
    19.2. THE SAWN JOINTS ARE TO BE SEALED JUST PRIOR TO PRACTICAL COMPLETION WITH A ONE-PART HIGH MODULUS MODIFIED POLYMER SEALANT WITH A MAF OF 35% AND SHORE A OF 55 E.G. ARBOMERIC MP20.
    19.3. THE STEEL DAY JOINTS ARE TO BE LEFT UNSEALED.
    19.4. PROPOSED SEALANTS MUST BE APPROVED BY FACE CONSULTANTS PRIOR TO PROCUREMENT.
    19.5. THE SEALANT IS DESIGNED TO BE A PERMANENT APPLICATION AND THE INSPECTION AND MAINTENANCE OF SAID SEALANT IS THE RESPONSIBILITY OF THE TENANT / BUILDING USER. ALL INSPECTION, MAINTENANCE AND CLEANING OPERATIONS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS OF CHAPTER 13, TR34 4th EDITION 2013.
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AS BUILT

Rev	Drawn	Date	Remarks/Comments
C02	CJL	27.04.2022	Updated to As Built status
C01	HP	21.03.2022	Updated to Construction status. LV Pit detail added, office to warehouse interface detail updated.
P01	MJK	07.02.2022	First Issue.

Client: STANFORD

Project: CALDER PARK

Location: WAKEFIELD

Dwg Title: TYPICAL DETAILS - SHEET 1

Scale @ A1: 1:20

Status: AS BUILT

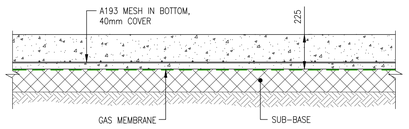
FACE CONSULTANTS LTD
Global Flooring Consultants
Dene House, North Road
Kirkburton
Huddersfield, HD8 0RW
United Kingdom
www.face-consultants.com

Drawn:	Date:	Chkd:	Date:	App:	Date:
MJK	07.02.22	HP	07.02.22	CJL	07.02.22

Dwg No: P21024-FCL-XX-00-DR-Y-0201

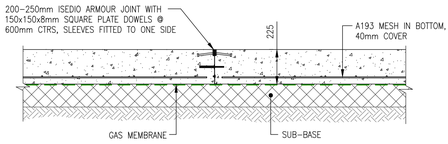
Rev: C02

225mm SLAB



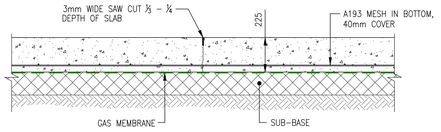
TYPICAL SECTION

SCALE 1:20



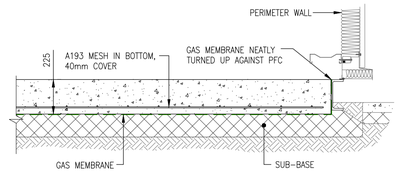
ISEDIO ARMOUR JOINT DETAIL (AJ)
TYPICAL SECTION

SCALE 1:20



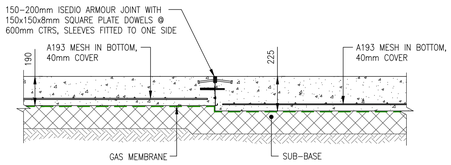
SAWN JOINT DETAIL (SJ)
TYPICAL SECTION

SCALE 1:20



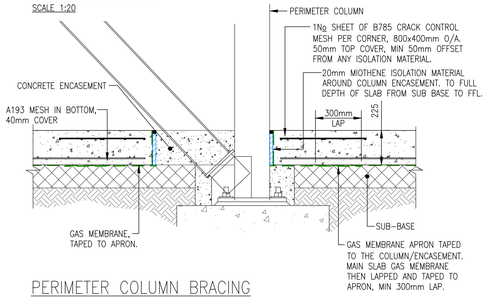
PERIMETER SLAB DETAIL
TYPICAL SECTION

SCALE 1:20



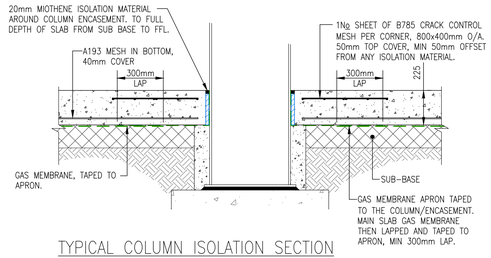
190mm/225mm SLAB INTERFACE
TYPICAL SECTION

SCALE 1:20



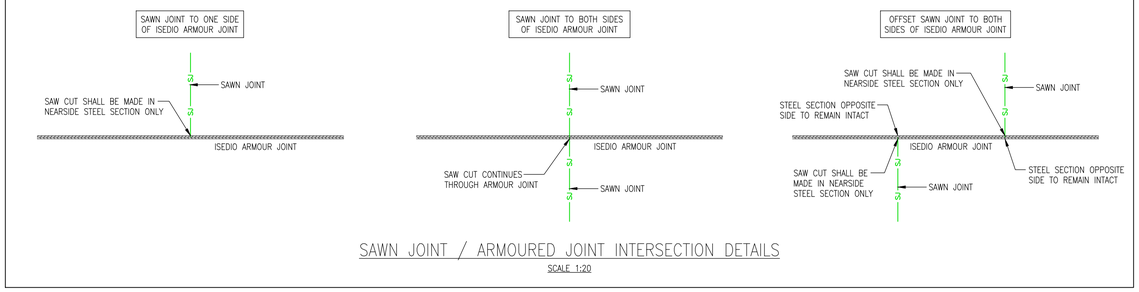
PERIMETER COLUMN BRACING
TYPICAL SECTION

SCALE 1:20



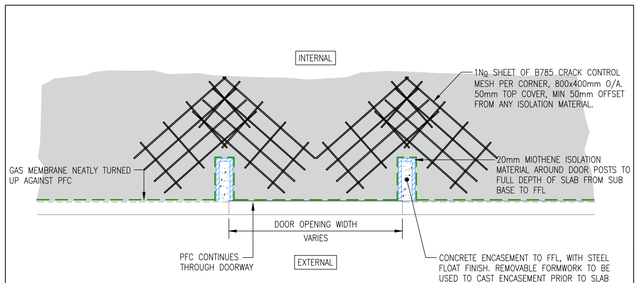
TYPICAL COLUMN ISOLATION SECTION

SCALE 1:20



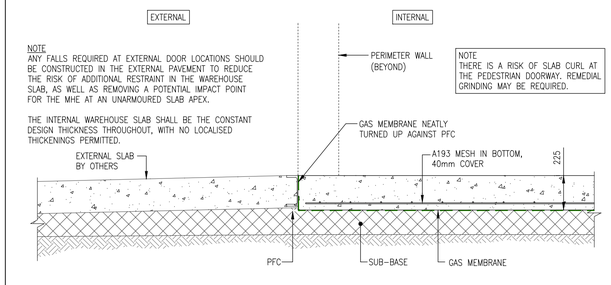
SAWN JOINT / ARMOURED JOINT INTERSECTION DETAILS

SCALE 1:20



TYPICAL PLAN AT PEDESTRIAN DOORWAY

SCALE 1:20



TYPICAL SECTION AT PEDESTRIAN EXTERNAL DOORWAY

SCALE 1:20

KEY

AJ AJ AJ AJ	ISEDIO ARMOURED JOINT
CJ CJ CJ CJ	CONSTRUCTION JOINT
SJ SJ SJ SJ	SAWN JOINT
	DENOTES ADDITIONAL LAYER OF A193 MESH IN TOP
	DENOTES AREAS BY OTHERS
A	DENOTES PANEL REFERENCE

FLOOR DESIGN – ENHANCED SLAB	
SLAB THICKNESS	225mm
REINFORCEMENT	1No. LAYER A193 MESH IN BOTTOM, 40mm COVER
CONCRETE STRENGTH	C32/40 (CYLINDER/CUBE)
'k' VALUE FOR DESIGN PURPOSES	0.05N/mm²/mm
FLOOR FLATNESS CLASSIFICATION	FM2 to CONCRETE SOCIETY TR34 4th EDITION
DESIGN LOADS	MAXIMUM RACK LEG LOAD = 130kN
	MAXIMUM UDL = 50kN/m²
ISEDIO ARMOURED JOINT TYPE	200–250mm
RACKING BASEPLATE DIMENSIONS	100mm x 100mm (ASSUMED CONTACT AREA)
BACK–TO–BACK LEG SPACING	MINIMUM 376mm
SINGLE LEG CENTRE TO JOINT	MINIMUM 150mm

FLOOR DESIGN – WAREHOUSE SLAB	
SLAB THICKNESS	190mm
REINFORCEMENT	1No. LAYER A193 MESH IN BOTTOM, 40mm COVER
CONCRETE STRENGTH	C32/40 (CYLINDER/CUBE)
'k' VALUE FOR DESIGN PURPOSES	0.05N/mm²/mm
FLOOR FLATNESS CLASSIFICATION	FM2 to CONCRETE SOCIETY TR34 4th EDITION
DESIGN LOADS	MAXIMUM RACK LEG LOAD = 100kN
	MAXIMUM UDL = 50kN/m²
ISEDIO ARMOURED JOINT TYPE	150–200mm
RACKING BASEPLATE DIMENSIONS	100mm x 100mm (ASSUMED CONTACT AREA)
BACK–TO–BACK LEG SPACING	MINIMUM 300mm
SINGLE LEG CENTRE TO JOINT	MINIMUM 150mm

Notes:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH FACE CONSULTANTS DRAWING SERIES P21024-FCL-XX-00-DR-Y / FD.22.1023.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALIST DRAWINGS.
3. ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS STATED OTHERWISE.
4. LOADS STIPULATED IN THE DESIGN TABLE/TABLES ARE INDIVIDUAL LOADS AND ARE NOT CONCURRENT.
5. PLEASE REFER TO DESIGN TABLE FOR MINIMUM MODULUS OF SUBGRADE (k) REQUIREMENTS.
6. THE SUB-BASE MUST BE SUITABLE TO TRANSMIT THE LOAD FROM THE FLOOR SLAB TO THE SUBGRADE. MATERIAL MUST BE WELL CLOSED AT THE SURFACE, NON-DEGRADEABLE AND MUST NOT CONTAIN SOFT MATERIALS SUCH AS CHALK AND SANDSTONE. THE SUB-BASE SHALL BE CAPABLE OF CARRYING CONSTRUCTION TRAFFIC WITHOUT SIGNIFICANT DEFORMATION OR RUTTING. THE SUB-BASE SHALL BE FINISHED TO A SURFACE TOLERANCE OF +0/-10mm.
7. PRIOR TO PLACING CONCRETE, ALL ROOF AND WALL SHEETING SHALL BE COMPLETED WHERE PRACTICAL, TO PROVIDE PROTECTION FROM ALL WEATHER RELATED ISSUES. LOADING DOORS SHALL BE FIXED IN PLACE AND OPENINGS SHEETED.
8. WALLS AND EXISTING SLABS SHALL BE PROTECTED FROM CONCRETE SPLASHES.
9. THE SLAB IS TO BE LAID ON GAS MEMBRANE TO SPECIALIST DETAIL.
10. REINFORCEMENT SHALL BE ONE LAYER OF MESH FABRIC, TYPE A193 TO BS4483, UNLESS STATED OTHERWISE.
11. COVER TO ALL REINFORCEMENT TO BE 40mm, UNLESS STATED OTHERWISE.
12. MINIMUM LAP TO FABRIC REINFORCEMENT TO BE 300mm OR 40 TIMES THE BAR DIAMETER, WHICHEVER IS GREATER. ALL LAPS TO BE TIED. EXCESSIVE BUILD-UP OF STEEL FABRIC UNDER SAW-CUTS IS NOT PERMITTED.
13. SPACERS TO BE PLACED AT MAXIMUM 800mm CENTRES, AS PER SECTION 6.2.1 OF TR34 4th EDITION 2013. ADDITIONAL SPACERS MAY BE REQUIRED.
14. FULL CONCRETE MIX DESIGN TO BE ISSUED TO FACE CONSULTANTS FOR REVIEW PRIOR TO CONSTRUCTION.
15. SLAB PENETRATIONS SHALL BE ISOLATED USING 20mm 'MIOTHENE' (OR SIMILAR APPROVED), AS PER FACE DETAIL DRAWINGS. SPECIAL CARE IS TO BE TAKEN TO ENSURE THAT THE SLIP MEMBRANE IS LAPPED AND TAPED UP THE SIDE OF THE 'MIOTHENE' ISOLATION.
16. CARE SHOULD BE TAKEN TO FULLY COMPACT THE CONCRETE THROUGHOUT THE SLAB PROFILE WITH A 'POKER' TYPE VIBRATOR TO REMOVE ALL ENTRAPPED AIR AND ELIMINATE HONEYCOMBING AND VOIDS. POKER TO BE INSERTED INTO THE CONCRETE IN AN OVERLAPPING PATTERN, ALL ADDITIONAL REINFORCEMENT TO BE SAT ON CHAIRS AND VIBRATED BY HOLDING THE POKER AGAINST THE BARS ENSURING THEY ARE NOT DISPLACED.
17. AFTER THE FINAL POWER TROWELLING OPERATION, THE FLOOR SLAB IS TO BE SPRAYED WITH AN ACRYLIC BASED, CURING, SEALING AND HARDENING MEMBRANE, SUCH AS 'ISEDIO ARMOURCURE' (OR SIMILAR APPROVED).
18. SAWN JOINTS ARE TO BE CUT WITHIN 24 HOURS OF CONCRETE BEING PLACED. SAW CUTS SHALL BE NOMINAL 3mm WIDE AND ¾ – ⅓ DEPTH OF SLAB.
19. JOINT SEALANT
    19.1. THE TOP 20mm OF 'MIOTHENE' IS TO BE REMOVED AND SEALED WITH A TWO-PART POLYSULPHIDE MASTIC WITH 35% MAF AND SHORE A OF 25 SUCH AS ARBOKOL AG2 PRIOR TO PRACTICAL COMPLETION.
    19.2. THE SAWN JOINTS ARE TO BE SEALED JUST PRIOR TO PRACTICAL COMPLETION WITH A ONE-PART HIGH MODULUS MODIFIED POLYMER SEALANT WITH A MAF OF 35% AND SHORE A OF 55 E.G. ARBOMERIC MP20.
    19.3. THE STEEL DAY JOINTS ARE TO BE LEFT UNSEALED.
    19.4. PROPOSED SEALANTS MUST BE APPROVED BY FACE CONSULTANTS PRIOR TO PROCUREMENT.
    19.5. THE SEALANT IS DESIGNED TO BE A PERMANENT APPLICATION AND THE INSPECTION AND MAINTENANCE OF SAID SEALANT IS THE RESPONSIBILITY OF THE TENANT / BUILDING USER. ALL INSPECTION, MAINTENANCE AND CLEANING OPERATIONS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS OF CHAPTER 13, TR34 4th EDITION 2013.
20. SPACING BETWEEN THE CENTRE LINE OF THE RACKING LEGS AND ANY SAWN OR FORMED JOINT IS TO BE A MINIMUM OF 150mm.
21. SPACING BETWEEN FIXINGS INTO THE SLAB AND ANY SAWN OR FORMED JOINT IS TO BE A MINIMUM 5 x HOLE DIAMETER. CARE TO BE TAKEN NOT TO OVER-TIGHTEN MECHANICAL FIXINGS IN THE SLAB.
22. THE SLAB CAN BE USED BY LIGHT TRAFFIC 7 DAYS AFTER IT IS POURED. THE LOADS SHALL NOT EXCEED 30% OF THE DESIGN CAPACITY. THE FLOOR SHALL NOT BE LOADED TO ITS FULL DESIGN CAPACITY BEFORE 28 DAYS HAVE PASSED SINCE POURING.

AS BUILT

Rev	Drawn	Date	Remarks/Comments
C02	CJL	27.04.2022	Updated to As Built status
C01	HP	21.03.2022	Updated to Construction status.
P01	MJK	07.02.2022	First Issue.

Client: STANFORD

Project: CALDER PARK

Location: WAKEFIELD

Dwg Title: TYPICAL DETAILS - SHEET 2

Scale @ A1: 1:20

Status: AS BUILT

FACE CONSULTANTS LTD
Global Flooring Consultants
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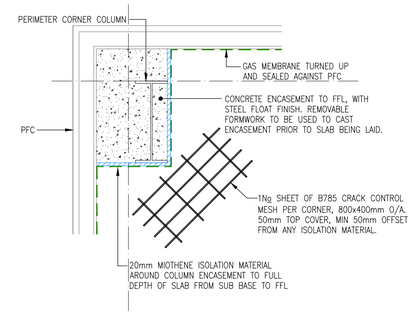
Drawn:	Date:	Chkd:	Date:	App:	Date:
MJK	07.02.22	HP	07.02.22	CJL	07.02.22

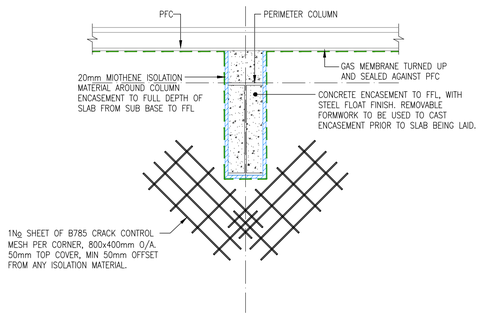
Dwg No: P21024-FCL-XX-00-DR-Y-0202

Rev C02



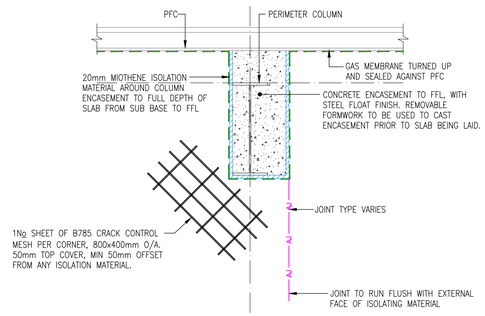
PERIMETER CORNER COLUMN ISOLATION TYPICAL PLAN

SCALE 1:20



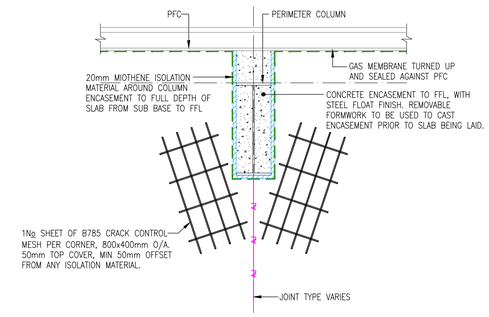
PERIMETER COLUMN ISOLATION TYPICAL PLAN

SCALE 1:20



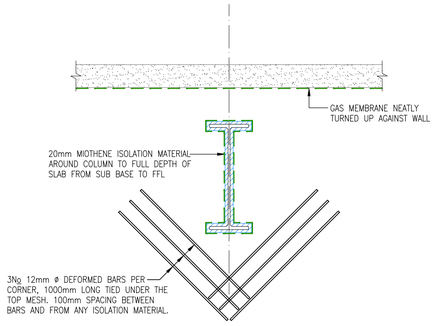
PERIMETER COLUMN ISOLATION WITH OFFSET JOINT TYPICAL PLAN

SCALE 1:20



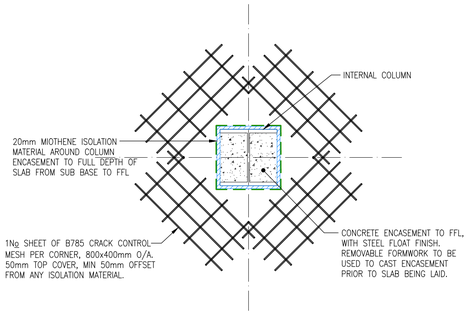
PERIMETER COLUMN ISOLATION WITH CENTRALLY LOCATED JOINT TYPICAL PLAN

SCALE 1:20



DOCK SLAB PERIMETER COLUMN ISOLATION TYPICAL PLAN

SCALE 1:20



INTERNAL COLUMN ISOLATION TYPICAL PLAN

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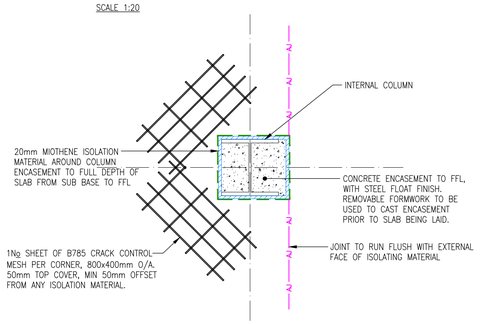
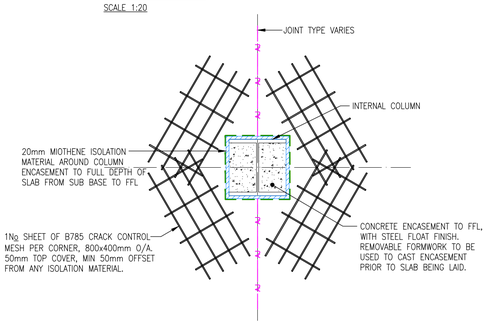


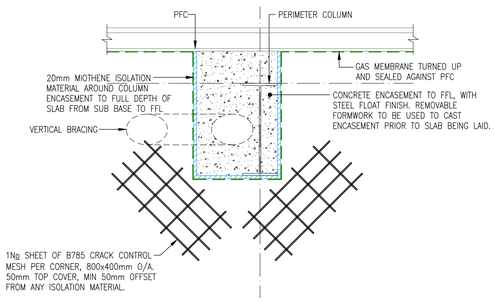
INTERNAL COLUMN ISOLATION WITH OFFSET JOINT TYPICAL PLAN

SCALE 1:20



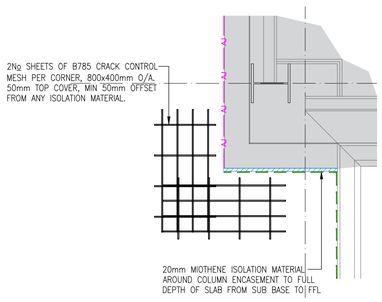
INTERNAL COLUMN ISOLATION WITH CENTRALLY LOCATED JOINT TYPICAL PLAN

SCALE 1:20



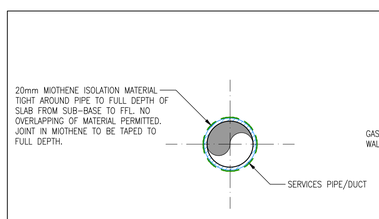
PERIMETER COLUMN BRACING ISOLATION TYPICAL PLAN

SCALE 1:20



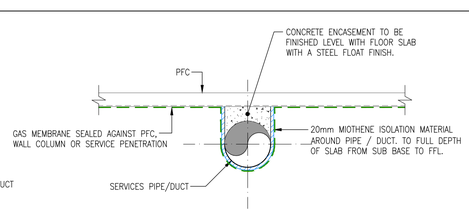
RE-ENTRANT CORNER ISOLATION TYPICAL PLAN

SCALE 1:20



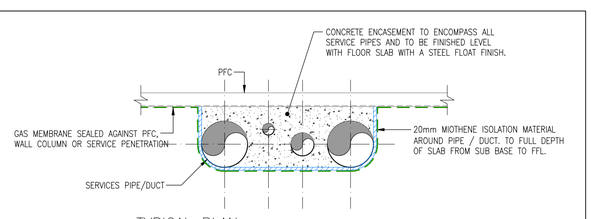
TYPICAL PLAN PIPE / DUCT ISOLATION DETAIL

SCALE 1:20



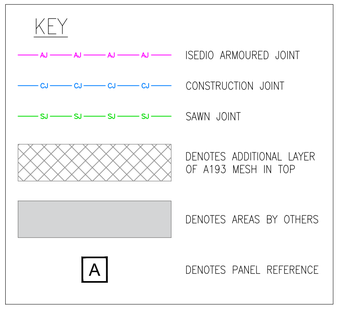
TYPICAL PLAN PIPE / DUCT ISOLATION DETAIL WITHIN CLOSE PROXIMITY TO WALL

SCALE 1:20



TYPICAL PLAN MULTIPLE PIPE / DUCT ISOLATION DETAIL WITHIN CLOSE PROXIMITY TO WALL

SCALE 1:20



FLOOR DESIGN – ENHANCED SLAB	
SLAB THICKNESS	225mm
REINFORCEMENT	1No LAYER A193 MESH IN BOTTOM, 40mm COVER
CONCRETE STRENGTH	C32/40 (CYLINDER/CUBE)
'k' VALUE FOR DESIGN PURPOSES	0.05N/mm²/mm
FLOOR FLATNESS CLASSIFICATION	FM2 to CONCRETE SOCIETY TR34 4th EDITION
DESIGN LOADS	MAXIMUM RACK LEG LOAD = 130kN
	MAXIMUM UDL = 50kN/m²
ISEDIO ARMOURED JOINT TYPE	200–250mm
RACKING BASEPLATE DIMENSIONS	100mm x 100mm (ASSUMED CONTACT AREA)
BACK–TO–BACK LEG SPACING	MINIMUM 376mm
SINGLE LEG CENTRE TO JOINT	MINIMUM 150mm

FLOOR DESIGN – WAREHOUSE SLAB	
SLAB THICKNESS	190mm
REINFORCEMENT	1No LAYER A193 MESH IN BOTTOM, 40mm COVER
CONCRETE STRENGTH	C32/40 (CYLINDER/CUBE)
'k' VALUE FOR DESIGN PURPOSES	0.05N/mm²/mm
FLOOR FLATNESS CLASSIFICATION	FM2 to CONCRETE SOCIETY TR34 4th EDITION
DESIGN LOADS	MAXIMUM RACK LEG LOAD = 100kN
	MAXIMUM UDL = 50kN/m²
ISEDIO ARMOURED JOINT TYPE	150–200mm
RACKING BASEPLATE DIMENSIONS	100mm x 100mm (ASSUMED CONTACT AREA)
BACK–TO–BACK LEG SPACING	MINIMUM 300mm
SINGLE LEG CENTRE TO JOINT	MINIMUM 150mm

Notes:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH FACE CONSULTANTS DRAWING SERIES P21024-FCL-XX-00-DR-Y / FD.22.1023.
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5. PLEASE REFER TO DESIGN TABLE FOR MINIMUM MODULUS OF SUBGRADE (k) REQUIREMENTS.
6. THE SUB-BASE MUST BE SUITABLE TO TRANSMIT THE LOAD FROM THE FLOOR SLAB TO THE SUBGRADE. MATERIAL MUST BE WELL CLOSED AT THE SURFACE, NON-DEGRADEABLE AND MUST NOT CONTAIN SOFT MATERIALS SUCH AS CHALK AND SANDSTONE. THE SUB-BASE SHALL BE CAPABLE OF CARRYING CONSTRUCTION TRAFFIC WITHOUT SIGNIFICANT DEFORMATION OR RUTTING. THE SUB-BASE SHALL BE FINISHED TO A SURFACE TOLERANCE OF +0/-10mm.
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16. CARE SHOULD BE TAKEN TO FULLY COMPACT THE CONCRETE THROUGHOUT THE SLAB PROFILE WITH A 'POKER' TYPE VIBRATOR TO REMOVE ALL ENTRAPPED AIR AND ELIMINATE HONEYCOMBING AND VOIDS. POKER TO BE INSERTED INTO THE CONCRETE IN AN OVERLAPPING PATTERN, ALL ADDITIONAL REINFORCEMENT TO BE SAT ON CHAIRS AND VIBRATED BY HOLDING THE POKER AGAINST THE BARS ENSURING THEY ARE NOT DISPLACED.
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18. SAWN JOINTS ARE TO BE CUT WITHIN 24 HOURS OF CONCRETE BEING PLACED. SAW CUTS SHALL BE NOMINAL 3mm WIDE AND ¼ – ⅓ DEPTH OF SLAB.
19. JOINT SEALANT
    19.1. THE TOP 20mm OF 'MIOTHENE' IS TO BE REMOVED AND SEALED WITH A TWO-PART POLYSULPHIDE MASTIC WITH 35% MAF AND SHORE A OF 25 SUCH AS ARBOKOL AG2 PRIOR TO PRACTICAL COMPLETION.
    19.2. THE SAWN JOINTS ARE TO BE SEALED JUST PRIOR TO PRACTICAL COMPLETION WITH A ONE-PART HIGH MODULUS MODIFIED POLYMER SEALANT WITH A MAF OF 35% AND SHORE A OF 55 E.G. ARBOMERIC MP20.
    19.3. THE STEEL DAY JOINTS ARE TO BE LEFT UNSEALED.
    19.4. PROPOSED SEALANTS MUST BE APPROVED BY FACE CONSULTANTS PRIOR TO PROCUREMENT.
    19.5. THE SEALANT IS DESIGNED TO BE A PERMANENT APPLICATION AND THE INSPECTION AND MAINTENANCE OF SAID SEALANT IS THE RESPONSIBILITY OF THE TENANT / BUILDING USER. ALL INSPECTION, MAINTENANCE AND CLEANING OPERATIONS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS OF CHAPTER 13, TR34 4th EDITION 2013.
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AS BUILT

Rev	Drawn	Date	Remarks/Comments
C02	CJL	27.04.2022	Updated to As Built status
C01	HP	21.03.2022	Updated to Construction status.
P01	MJK	07.02.2022	First Issue.

Client: STANFORD

Project: CALDER PARK

Location: WAKEFIELD

Dwg Title: TYPICAL DETAILS - SHEET 3

Scale @ A1: 1:20

Status: AS BUILT

FACE CONSULTANTS LTD
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Kirkburton
Huddersfield, HD8 0RW
United Kingdom
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Drawn:	Date:	Chkd:	Date:	App:	Date:
MJK	07.02.22	HP	07.02.22	CJL	07.02.22

Dwg No: P21024-FCL-XX-00-DR-Y-0203

Rev: C02