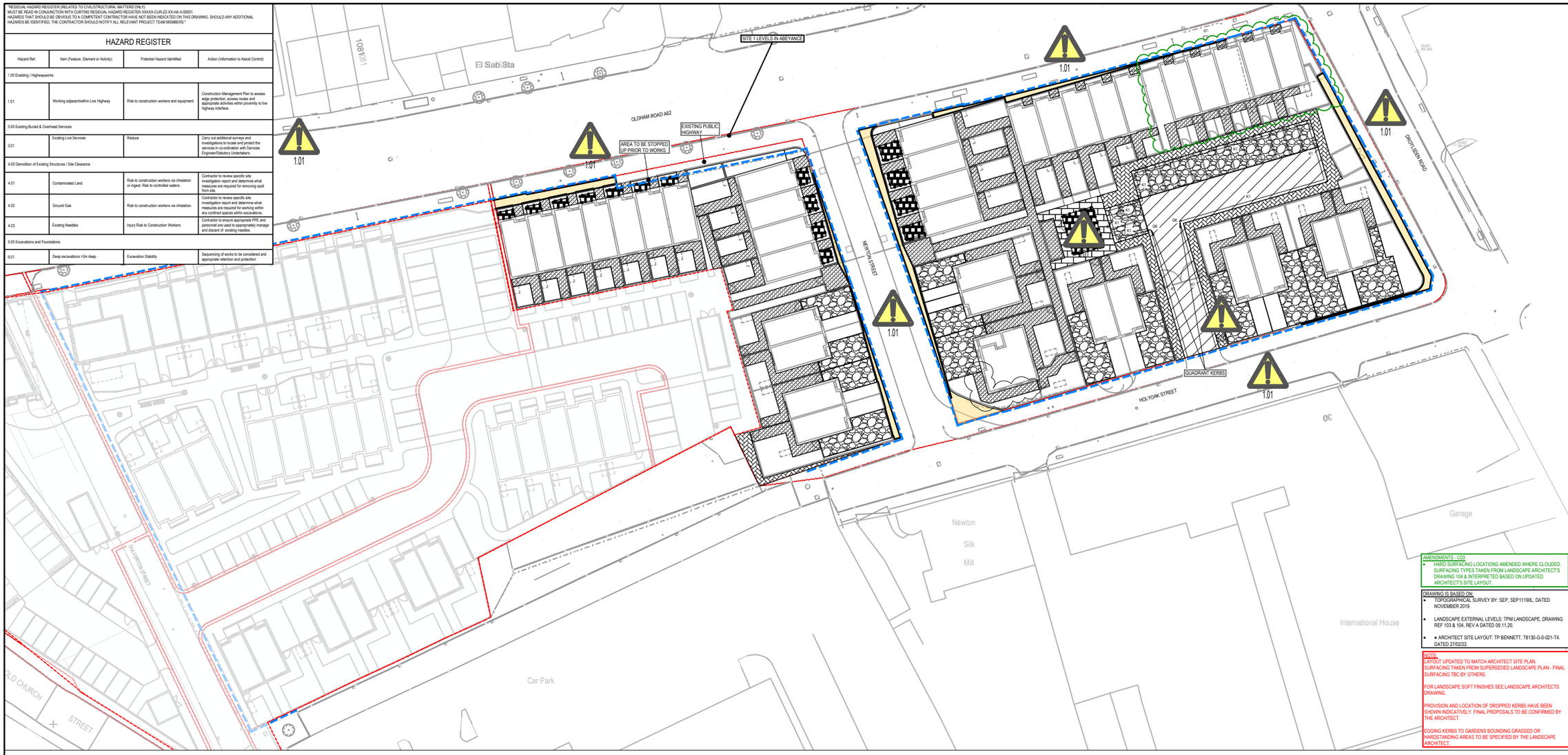
"RESIDUAL HAZARD REGISTER (RELATES TO CIVILS/STRUCTURAL MATTERS ONLY)
MUST BE READ IN CONJUNCTION WITH CURTINS RESIDUAL HAZARD REGISTER XXXXX-CUR-ZZ-XX-HA-X-00001.
HAZARDS THAT SHOULD BE OBVIOUS TO A COMPETENT CONTRACTOR HAVE NOT BEEN INDICATED ON THIS DRAWING. SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED, THE CONTRACTOR SHOULD NOTIFY ALL RELEVANT PROJECT TEAM MEMBERS."

HAZARD REGISTER

Hazard Ref.	Item (Feature, Element or Activity)	Potential Hazard Identified	Action (Information to Assist Control)
1.00 Enabling / Highwayworks			
1.01	Working adjacent/within Live Highway	Risk to construction workers and equipment.	Construction Management Plan to assess edge protection, access routes and appropriate activities within proximity to live highway interface.
3.00 Existing Buried & Overhead Services			
3.01	Existing Live Services	Reduce	Carry out additional surveys and investigations to locate and protect the services in co-ordination with Services Engineer/Statutory Undertakers.
4.00 Demolition of Existing Structures / Site Clearance			
4.01	Contaminated Land	Risk to construction workers via inhalation or ingest. Risk to controlled waters.	Contractor to review specific site investigation report and determine what measures are required for removing spoil from site.
4.02	Ground Gas	Risk to construction workers via inhalation.	Contractor to review specific site investigation report and determine what measures are required for working within any confined spaces within excavations.
4.03	Existing Needles	Injury Risk to Construction Workers	Contractor to ensure appropriate PPE and personnel are used to appropriately manage and discard of existing needles.
5.00 Excavations and Foundations			
5.01	Deep excavations >3m deep	Excavation Stability	Sequencing of works to be considered and appropriate retention and protection



GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
3. ALL WORKS AND MATERIALS TO BE IN ACCORDANCE WITH CURRENT BRITISH STANDARDS AND BUILDING REGULATIONS.
4. THE LANDSCAPE ARCHITECT'S DRAWING HAS BEEN USED AS A BASE FOR THIS PLAN. PLEASE REFER TO THE LATEST LANDSCAPING LAYOUT.
5. REFER TO LANDSCAPE ARCHITECTS SPECIFICATION FOR SURFACE FINISHES.
6. REFER TO LANDSCAPE ARCHITECTS SPECIFICATION FOR JOINTING MATERIAL. CONSIDERATION REQUIRED OF COMPATIBILITY OF JOINTING AND BEDDING MATERIAL AND WHETHER SUB-SURFACE DRAINAGE IS REQUIRED.
7. WHERE PERMEABLE FINISHES AND/OR PERMEABLE BEDDING IS SPECIFIED, REFER TO CURTINS DRAWING 074031-CUR-00-XX-DR-C-92523.
8. ALL SUB-BASES AND CAPPING LAYERS TO BE GRADED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS (SFHW).
9. ALL PAVEMENT CONSTRUCTIONS ARE BASED ON AN ASSUMED CBR VALUE OF 5%. TO BE CONFIRMED BY INSITU TESTING AT FORMATION.
10. IT IS RECOMMENDED THAT CBR TESTS ARE CARRIED OUT TO CONFIRM AND SUB-BASE ADJUSTED IN ACCORDANCE WITH THE CAPPING AND SUB-BASE THICKNESS TABLE.
11. CBR TEST PROCEDURE IS DETAILED WITHIN DMRB IAN73/06 AND BS 1377-4.
12. MEASURED CBR VALUE TO BE AT FORMATION LEVEL AND TO BE A 'SOAKED' CONDITION.
13. ANY VARIATIONS IN GROUND CONDITIONS SHOULD BE NOTIFIED TO THE ENGINEER PRIOR TO CONSTRUCTION.
14. THE CONSTRUCTION DEPTHS GIVEN ARE THE MINIMUM REQUIRED (COMPACTED).
15. THE CONSTRUCTION DEPTHS GIVEN ASSUME FORMATION IS NON-FROST SUSCEPTIBLE.
16. WHERE FORMATION IS FROST SUSCEPTIBLE PROVIDE CAPPING MATERIAL TO GIVE A MINIMUM 450mm OVERALL CONSTRUCTION THICKNESS.
17. THE CONSTRUCTIONS GIVEN ARE FOR PRIVATE AREAS ONLY AND NOT FOR ADOPTABLE AREAS.
18. EXTENT OF HIGHWAY BOUNDARY TO BE CONFIRMED PRIOR TO COMMENCEMENT OF WORKS.
19. IN AREAS WHERE LEVELS ARE TO BE RAISED, ACCEPTABLE FILL MATERIAL IS TO BE USED TO THE UNDERSIDE OF THE PROPOSED CONSTRUCTION MAKE UP.
20. NO REGULATING OR FILL MATERIAL HAS BEEN INCLUDED IN CONSTRUCTION BUILD UP. CONTRACTOR TO INCLUDE FOR REGULATING/FILL MATERIAL IN THEIR RATES.
21. IN AREAS WHERE LEVELS ARE TO BE LOWERED, EXISTING CONSTRUCTION IS TO BE REMOVED (FULL DEPTH).
22. CONSTRUCTION OF CONCRETE SURFACES SUBJECT TO CASTING IN APPROPRIATE BAY SIZES / LENGTHS.
23. CBM1 TO BE TO BS7533 REQUIREMENTS.
24. TYPE 1 SUB-BASE IN ACCORDANCE WITH SFHW.
25. CAPPING MATERIAL TO BE 6F1, 6F2 OR 6F5 MATERIAL IN ACCORDANCE WITH SFHW 600 SERIES.
26. FIRE TENDER ROUTE TO BE CONFIRMED.
27. MAINTENANCE VEHICLE ROUTE TO BE CONFIRMED.
28. PREVENTION OF MAINTENANCE VEHICLES FROM ACCESSING PEDESTRIAN SPECIFIED AREAS TO BE CONFIRMED.
29. PROVISION AND LOCATION OF DROPPED KERBS HAVE BEEN SHOWN INDICATIVELY. FINAL PROPOSALS TO BE CONFIRMED BY THE ARCHITECT.
30. EDGING KERBS TO GARDENS BOUNDING GRASSED OR HARDSTANDING AREAS TO BE SPECIFIED BY THE LANDSCAPE ARCHITECT.

AMENDMENTS - C03
- HARD SURFACING LOCATIONS AMENDED WHERE CLOUDED. SURFACING TYPES TAKEN FROM LANDSCAPE ARCHITECTS DRAWING 104 & INTERPRETED BASED ON UPDATED ARCHITECT'S SITE LAYOUT.

DRAWING IS BASED ON:
- TOPOGRAPHICAL SURVEY BY: SEP, SEP11190L, DATED NOVEMBER 2019.
- LANDSCAPE EXTERNAL LEVELS: TPM LANDSCAPE, DRAWING REF 103 & 104, REV A DATED 09.11.20.
- • ARCHITECT SITE LAYOUT: TP BENNETT, T8130-G-0-021-T4. DATED 27/02/22.

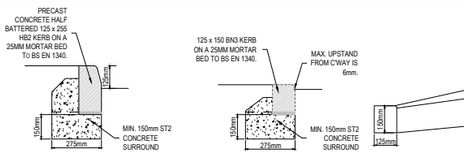
NOTE:
LAYOUT UPDATED TO MATCH ARCHITECT SITE PLAN.
SURFACING TAKEN FROM SUPERSEDED LANDSCAPE PLAN - FINAL SURFACING TBC BY OTHERS

FOR LANDSCAPE SOFT FINISHES SEE LANDSCAPE ARCHITECTS DRAWING.

PROVISION AND LOCATION OF DROPPED KERBS HAVE BEEN SHOWN INDICATIVELY. FINAL PROPOSALS TO BE CONFIRMED BY THE ARCHITECT.

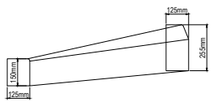
EDGING KERBS TO GARDENS BOUNDING GRASSED OR HARDSTANDING AREAS TO BE SPECIFIED BY THE LANDSCAPE ARCHITECT.

KEY:
- INDICATIVE HIGHWAY BOUNDARY. TAKEN FROM MCC HIGHWAY RECORDS.
- EXISTING SITE BOUNDARY. TAKEN FROM ARCHITECT DRAWING T8170-W-0-400-P1
- PHASE 1 BOUNDARY. TAKEN FROM ARCHITECT DRAWING T8170-W-0-400-P1 AND S38/S278 DRAWINGS
- PHASE 1 BOUNDARY. TAKEN FROM ARCHITECT DRAWING T8170-W-0-400-P1
- ALL BOUNDARIES ARE OFFSET FOR CLARITY AND THEREFORE INDICATIVE.
- P01 BITUMINOUS ROAD CONSTRUCTION (HEAVY VEHICLE LOADING)
- P02 BITUMINOUS FOOTWAY CONSTRUCTION (OCCASIONAL HEAVY VEHICLE)
- P03 CONCRETE FLAG PAVING CONSTRUCTION (PEDESTRIAN ONLY)
- P04 PERMEABLE BLOCK PAVING (OCCASIONAL HEAVY VEHICLE LOADING)
- P05 CONCRETE FLAG PAVING CONSTRUCTION (PEDESTRIAN ONLY)
- P06 GRANITE AGGREGATE CONCRETE FLAG PAVING (PEDESTRIAN ONLY)
- AREA TO BE OFFERED FOR ADOPTION UNDER A SECTION 38 AGREEMENT WITH MCC. (SEE S278/38 CONSTRUCTION DRAWINGS FOR DETAILS.)

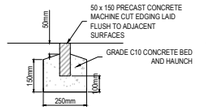


K1- HALF BATTERED KERB - HB2 (NTS)

K2- BULLNOSED KERB - BN3 (NTS)

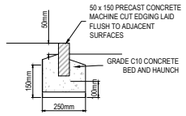


TK- TRANSITION KERB (HB2 - BN3) (NTS)

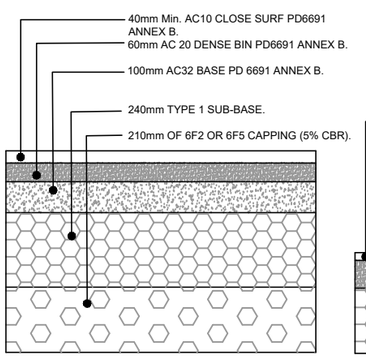


FLUSH EDGING KERB DETAIL NTS

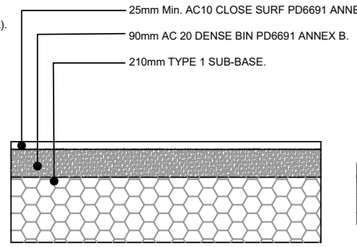
FOR EDGE KERBING LOCATIONS - REFER TO LANDSCAPE LAYOUT



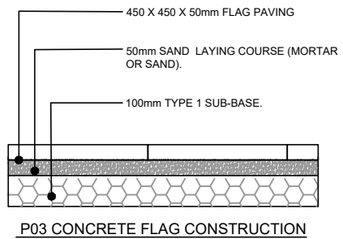
50mm UPSTAND EDGING KERB DETAIL NTS



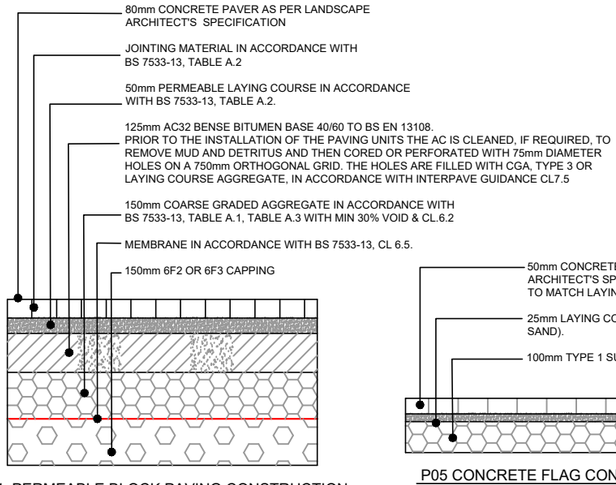
P01 BITUMINOUS ROAD CONSTRUCTION
REGULAR HEAVY VEHICLES -CD225/CD226
ASSUMED 5% CBR



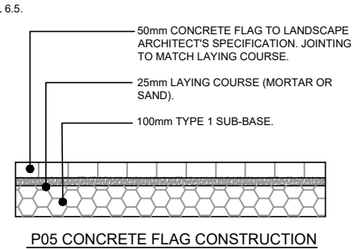
P02 BITUMINOUS FOOTWAY CONSTRUCTION
(OCCASIONAL HEAVY VEHICLES)- CD239
ASSUMED 5% CBR



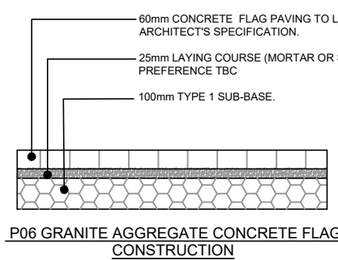
P03 CONCRETE FLAG CONSTRUCTION
(PEDESTRIAN ONLY)- CD239.
ASSUMED 5% CBR
JOINTING MATERIAL TO MATCH LAYING COURSE- TBC



P04 PERMEABLE BLOCK PAVING CONSTRUCTION
OCCASIONAL HEAVY VEHICLES - BS7533-13.
ASSUMED 5% CBR



P05 CONCRETE FLAG CONSTRUCTION
(PEDESTRIAN ONLY) - CD239.
ASSUMED 5% CBR
JOINTING MATERIAL TO MATCH LAYING COURSE- TBC



P06 GRANITE AGGREGATE CONCRETE FLAG CONSTRUCTION
(PEDESTRIAN ONLY)- CD239.
ASSUMED 5% CBR
JOINTING TO MATCH LAYING COURSE-TBC

Rev	Description	Date	By	Chkd
C04	P03 SPEC UPDATED	14.08.23	KS	CG
C03	UPDATED IN LINE WITH REVISED SITE PLAN	03.03.23	ATL	CG
C02	UPDATED CONSTRUCTION ISSUE	16.12.22	CS	CG
C01	ISSUED FOR CONSTRUCTION	07.11.22	CS	CG
P02	PERMEABLE PAVING SPEC UPDATED	13.01.22	CG	HS
P01	STAGE 3 ISSUE	16/11/20	AH	CD

curtins
Merchant Exchange, 17-19 Whitworth Street West, Manchester, M1 5WG
0161 236 2394
manchester@curtins.com
www.curtins.com
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Status: CONSTRUCTION

Project: OLDHAM ROAD, NEWTON HEATH

Drg Title: EXTERNAL WORKS LAYOUT PHASE 1

Project No:	Size:	Date:	Drawn By:	Designed By:	Checked By:
074031	A0	16/11/20	AH	AH	CD
	Scale: 1:250				

Project Code: Originator: Volume: Level: Type: Role: Category / Number: Rev:
074031 - CUR - 00 - XX - DR - C - 95700 - C04

Issue Date: 14.08.2023 - 2:38 pm | Plot Date: 14.08.2023 | Plot Scale: 1.000 | Plot Device: A1 Adobe PDF.pc3 | Drawing File: C:\Users\...\074031-CUR-00-XX-DR-C-95700-C04.dwg