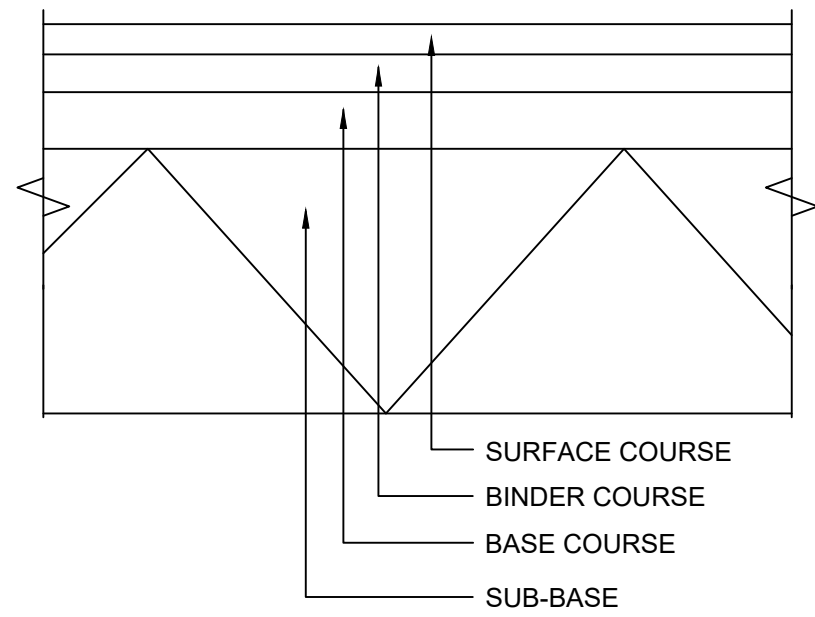




ALL WORKS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF BS594987:2010 GENERALLY.

SURFACE COURSE
MATERIAL 40mm
AC10 SURF PA

BINDER COURSE
MATERIAL 50mm
AC20 BIN PA

BASE COURSE
MATERIAL 75mm
AC32 BAS PA

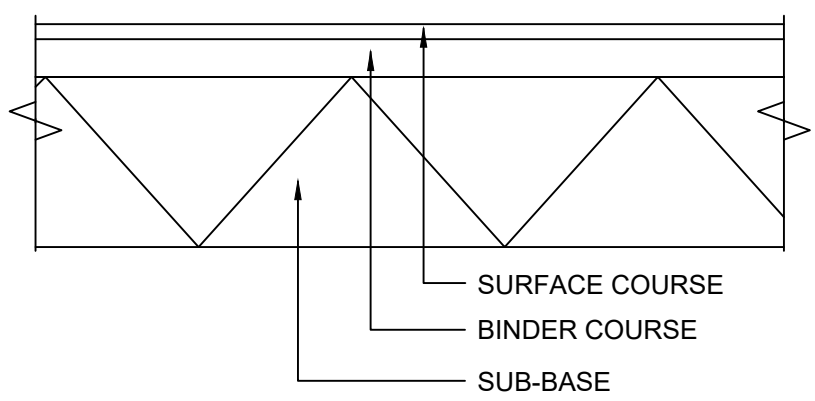
GRANULAR SUBBASE
MIN 350mm CLEAN
ANGULAR STONE TYPE 4/20

ASSUMED CBR
2.5% (SUBJECT TO
CONFIRMATION OF CBR
TESTS BY SITE
INVESTIGATION
SPECIALIST)

ADDITIONAL FILLING REQUIRED TO SUIT PROPOSED
LEVELS TO USE TYPE 3 SUB-BASE OR CLEAN ANGULAR
STONE TYPE 4/20.

NOTE:
ALL MATERIAL WITHIN 450mm OF SURFACE LEVEL TO BE
NON-FROST SUSCEPTIBLE.

NEW POROUS ACCESS ROAD CONSTRUCTION



ALL WORKS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF BS594987:2010 GENERALLY.

SURFACE COURSE
MATERIAL 20mm
AC10 SURF PA

BINDER COURSE
MATERIAL 50mm
AC20 BIN PA

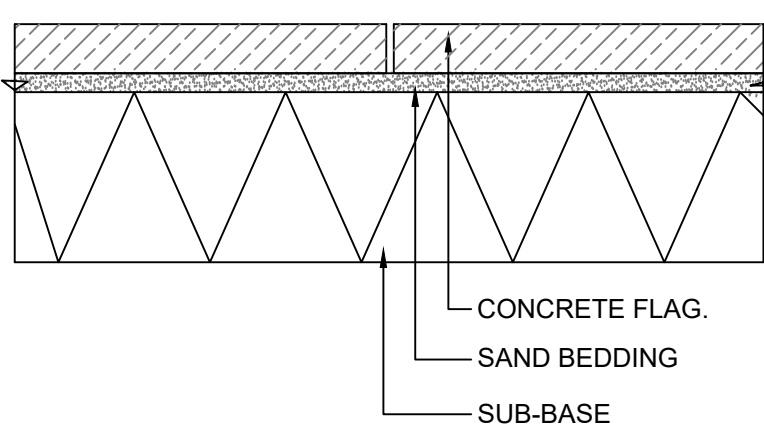
GRANULAR SUBBASE
MIN 225mm CLEAN
ANGULAR STONE TYPE 4/20

ASSUMED CBR
2.5% (SUBJECT TO
CONFIRMATION OF CBR
TESTS BY SITE
INVESTIGATION
SPECIALIST)

ADDITIONAL FILLING REQUIRED TO SUIT PROPOSED
LEVELS TO USE TYPE 3 SUB-BASE OR CLEAN ANGULAR
STONE TYPE 4/20.

NOTE:
ALL MATERIAL WITHIN 450mm OF SURFACE LEVEL TO BE
NON-FROST SUSCEPTIBLE.

NEW POROUS PARKING BAY CONSTRUCTION



SUB-BASE:

HIGHWAYS AGENCY TYPE 3
GRANULAR MATERIAL OR
CLEAN ANGULAR STONE TYPE
4/20

THICKNESS:
LAYING COURSE:
2mm TO 6.3mm GRADED GRIT
TO BS EN 7533-13

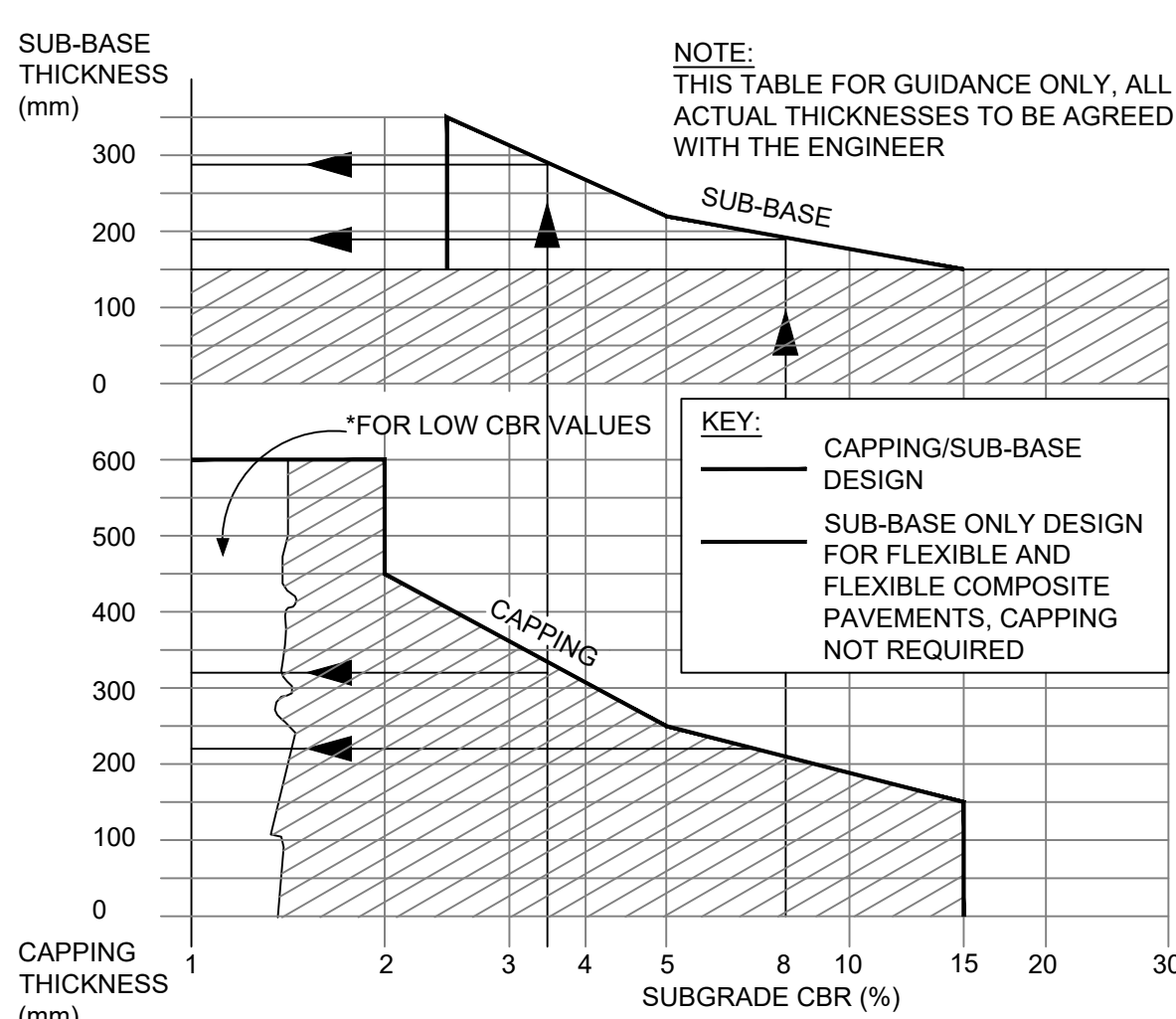
THICKNESS:
FLAGS:
MANUFACTURER:
PRODUCT REFERENCE:
COLOUR / FINISH:
METHOD OF MANUFACTURE:
NOMINAL SIZES:
JOINTING:

WIDTH:
BOND:
ASSUMED CBR:
2.5% (SUBJECT TO
CONFIRMATION OF CBR
TESTS BY SITE
INVESTIGATION
SPECIALISTS AFTER SITE
STRIP

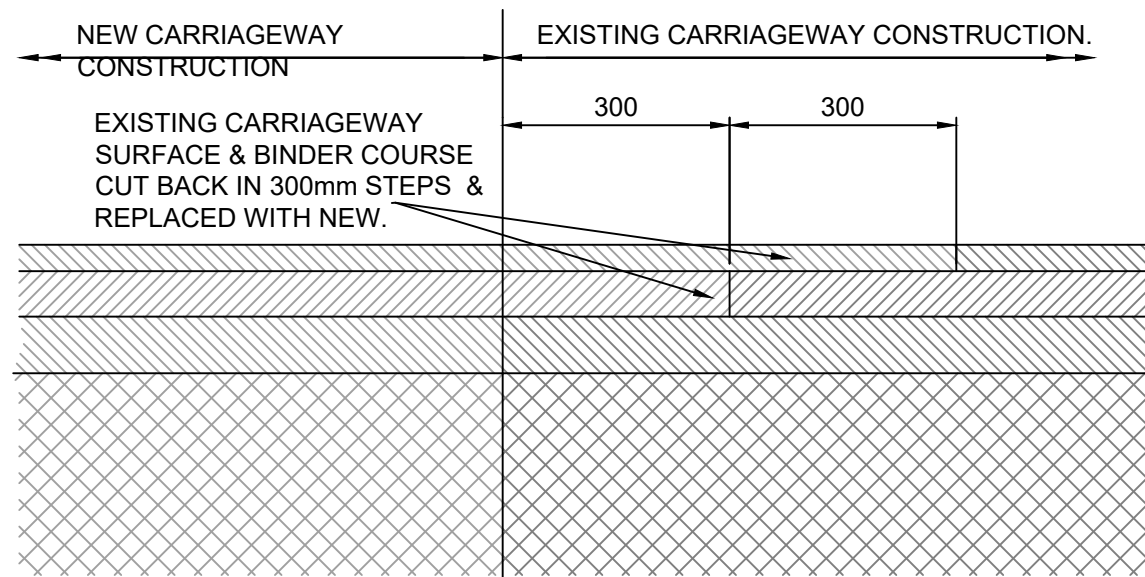
ADDITIONAL FILLING REQUIRED TO RAISE SURFACE LEVEL
FOLLOWING SITE STRIP TO BE IN ACCORDANCE WITH P20
(SHW 803 TYPE 1 GSB)

ALL MATERIALS WITHIN 450mm OF SURFACE LEVEL TO BE
NON-FROST SUSCEPTIBLE. IF ENCOUNTERED NOTIFY WML.
REPLACEMENT FILL TO BE GRADE 6F2 OR 6F5 UNLESS
AGREED OTHERWISE.

NEW PERMEABLE CONCRETE FLAG PAVING TO PEDESTRIAN AREAS



SUB-BASE / CAPPING CBR TABLE



TIE IN TO EXISTING CARRIAGEWAY

EXTERNAL CONCRETE HARDSTANDING

GENERAL

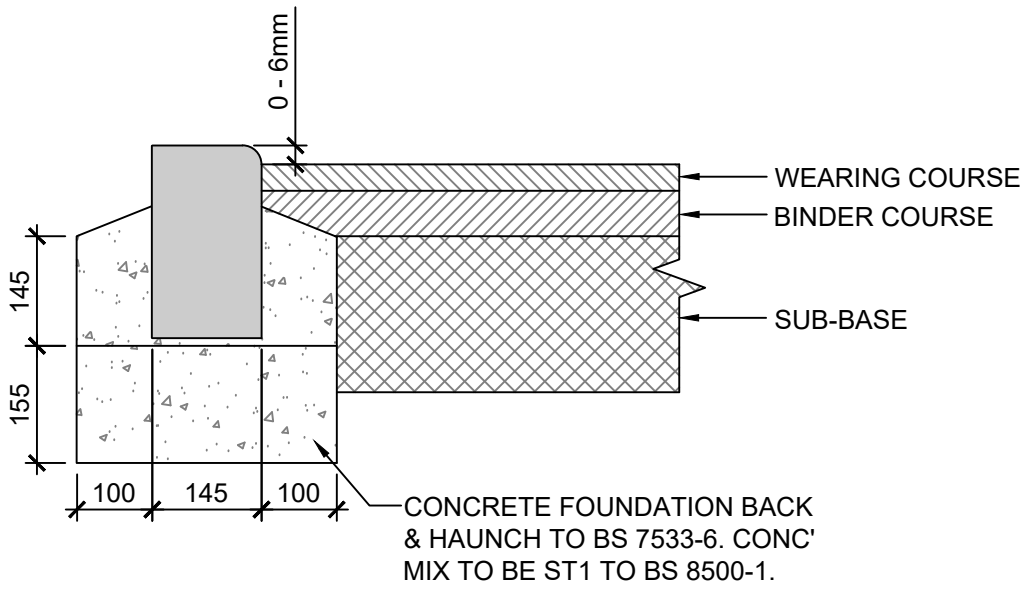
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE ENGINEERS SPECIFICATIONS.
- ALL THRESHOLD DETAILS AND JOINTS WITHIN FINISHES AT CONTRACTION AND EXPANSION JOINT LOCATIONS SHALL BE IN ACCORDANCE WITH THE ARCHITECTS AND PROPRIETARY FLOOR FINISH SUPPLIERS RECOMMENDATIONS.
- ALL EXISTING SERVICES SHALL BE IDENTIFIED BY THE CONTRACTOR AND DEALT WITH AS DIRECTED BY THE CONTRACT ADMINISTRATOR PRIOR TO ANY EXCAVATION WORK.
- FOR LEVELS SETTING OUT KERBING THRESHOLD, PLINTH & STREET FURNITURE DETAILS SEE ARCHITECTS DRAWINGS.
- ALL SERVICE RUNS ARE TO BE LAID PRIOR TO LAYING SUB-BASE.
- THE FORMATION IS TO BE ROLLED AND TRIMMED / CUT AS NECESSARY IMMEDIATELY PRIOR TO LAYING SUB-BASE.
- PRIOR TO PLACING GRANULAR BED THE GROUND FORMATION BENEATH THE AREA OF GROUND FLOOR SLAB IS TO BE INSPECTED AND ANY SOFT, DELETERIOUS OR FROST SUSCEPTIBLE MATERIAL IS TO BE REMOVED AND REPLACED WITH APPROVED COMPACTED GRANULAR MATERIAL.
- THE FORMATION IS TO BE COMPACTED WITH A VIBRATING ROLLER IN ACCORDANCE WITH THE D.O.T. SPECIFICATION TABLE 8/1 ASSUMING A 300mm BED THICKNESS. ANY DEPRESSIONS IN THE FORMATION AFTER COMPACTION ARE TO BE FILLED WITH APPROVED GRANULAR MATERIAL AND RECOMPACTION. THIS PROCESS SHOULD BE REPEATED UNTIL A LEVEL FORMATION IS ACHIEVED.
- WHERE REQUIRED ADDITIONAL LAYERS OF COMPACTED D.O.T. TYPE 1 GRANULAR MATERIAL SHOULD BE PROVIDED IN MAXIMUM OF 300mm THICK LAYERS COMPACTED IN ACCORDANCE WITH TABLE 8/1 OF THE D.O.T. SPECIFICATION.

JOINTS

- THE MAXIMUM BAY LENGTH BETWEEN SAWN JOINTS IS TO BE 6.0m UNLESS AGREED WITH WML ENGINEER.
- THE MAXIMUM BAY LENGTH BETWEEN FORMED FREE MOVEMENT JOINTS IS TO BE 18M.
- THE MAXIMUM BAY LENGTH BETWEEN EXPANSION JOINTS IS TO BE 54M.
- ALL JOINTS FORMED BY SAW CUTTING THE SLAB WITHIN 24 HOURS OF CASTING THE SLAB.
- AT THE JUNCTION BETWEEN SLABS AND KERBS THE JOINT IS TO BE SEALED AT LOWER EDGE OF KERB OR SLAB WITH 50mm DEEP BITUMINOUS PRE FORMED FILLER STRIP (TOKSTRIP BY WINNS & COALES [DENSO] LTD).
- ADDITIONAL JOINTS ARE TO BE INTRODUCED AT GULLY CHANNEL AND MANHOLE POSITIONS AS REQUIRED - SEE PLAN & DETAILS.
- ALL DOWELS ARE TO BE FIXED PARALLEL TO THE FINISHED SURFACE OF THE SLAB. WHERE A CHANGE IN GRADIENT OCCURS AT A JOINT IT SHOULD NOT BE A FULL CONTRACTION OR EXPANSION JOINT.

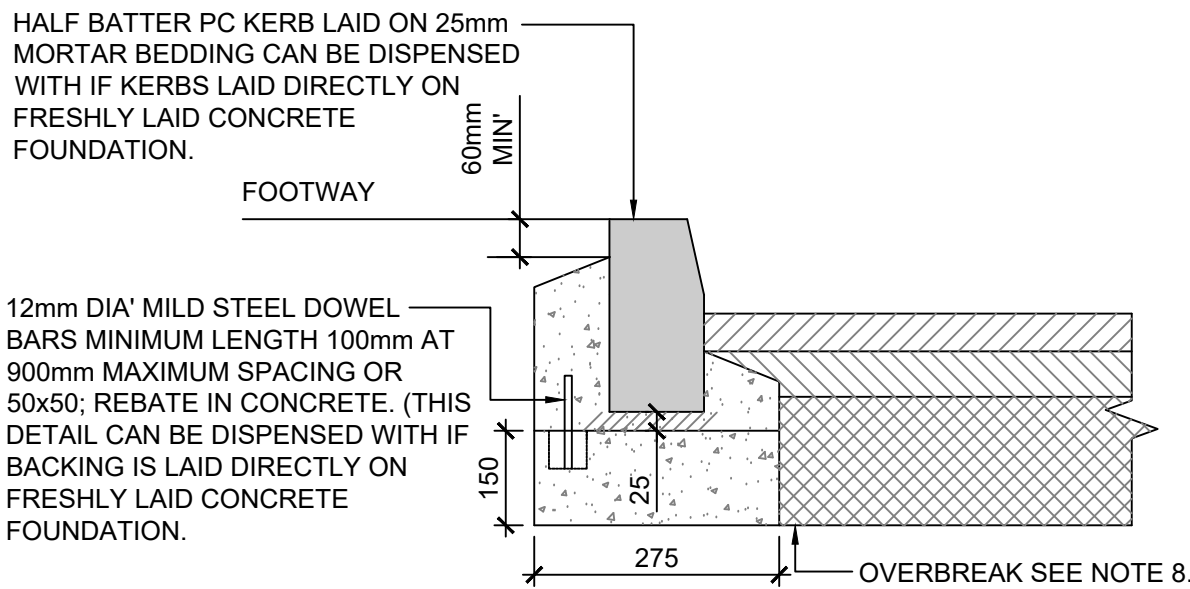
CONCRETE

- CONCRETE MIX IS TO BE AS SPECIFIED ON THE SCHEDULE & DETAILS.
- SLAB FINISHES SHALL BE IN ACCORDANCE WITH THE ARCHITECTS REQUIREMENTS AND COMPATIBLE WITH DIRECTION OF FALL. A SAMPLE PANEL TO BE PREPARED IF REQUIRED BY THE ARCHITECT.



TYPICAL DROP KERB

[SCALE 1:10]

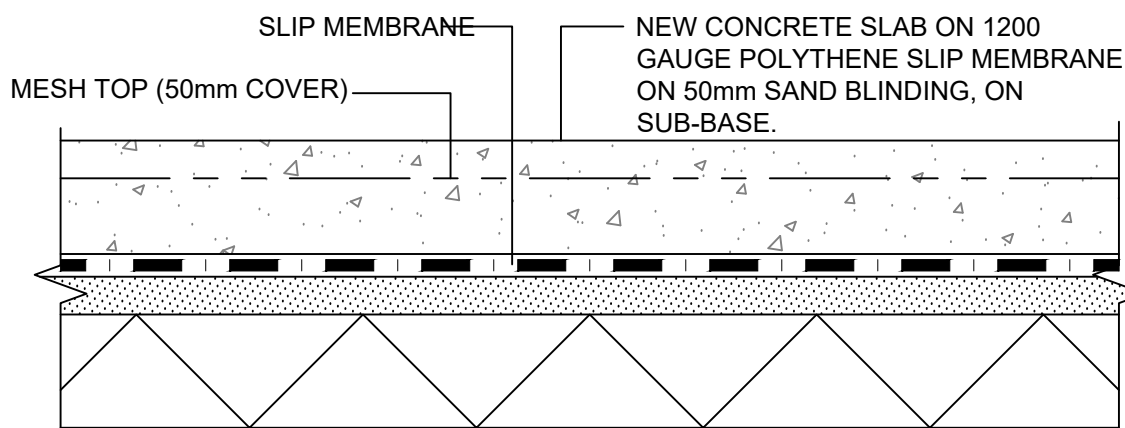


TYPICAL KERB DETAIL

[SCALE 1:10]

NOTES:

- CONCRETE BEDDING AND BACKING SHALL BE TYPE ST1 TO BS 8500-1.
- KERBS SHALL COMPLY WITH BS EN 1340.
- CEMENT SHALL BE ORDINARY PORTLAND CEMENT TO BS EN 197-1.
- JOINTS TO KERBS SHALL BE POINTED WITH CLASS (iii) MORTAR.
- CUT LENGTHS OF KERBS ARE TO BE CUT USING A DISC CUTTER MIN. LENGTH 450mm.
- IN THE CASE OF NEW CARRIAGEWAY CONSTRUCTION THE SUB BASE LAYER IS EXTENDED 300mm BEYOND THE BACK OF KERB FOUNDATION THE CONTRACTOR SHALL ALLOW FOR FILLING IN BETWEEN THE ROAD SUB BASE AND THE FOOTWAY FORMATION WITH SUB BASE MATERIAL IN THE RATE FOR KERBING.
- RECONSTRUCTION OF EXISTING CARRIAGEWAY CHANNEL MEASURED SEPARATELY.
- KERBS LAID IN EXISTING CARRIAGEWAY FORMATION-RATE TO INCLUDE INFILL OF OVERBREAK IN FRONT OF KERB WITH CONCRETE TYPE ST.1 TO BINDER COURSE FINISH LEVEL.



BIN STORE CONCRETE SLAB

FABRIC REINFORCED EXTERNAL CONCRETE HARDSTANDING SPECIFICATION:

NOTE - SPECIFICATION APPROPRIATE FOR SUB-GRADE CBR 2.5%

SLAB THICKNESS [mm]	- 200
REINFORCEMENT	- A393
CONCRETE QUALITIES	- C28 / 35 PUMPABLE WITH 3.5% ENTRAINMENT (MIN.)
AIR	- XF4, XC3/4
EXPOSURE CLASSES	- CEM1, CEMIIA, CEMIIB-S
PERMITTED CEMENT TYPES	- TO BS - 882: FREEZE / THAW
AGGREGATE : COURSE	
RESISTING	
AGGREGATE :SAND	- TO BS882:
NOMINAL MAX. SIZE [mm]	- 20
MIN. CEMENT CONTENT [kg/m ²]	- 320
MAX. FREE WATER CEMENT RATIO [kg/m ²]	- 0.55
MAX. CEMENT CONTENT	- 400
SLUMP [mm]	- S 2
FINISH	- BRUSHED DIRECTION TO SUIT FALL, WITH EDGING TROWEL TO REMOVE SHARP ARISES TO ALL JOINTS .
SURFACE TOLERANCE) (CLAUSE 702D.O.T. SPECIFICATION FOR HIGHWAY WORKS)	- 3mm UNDER 3m STRAIGHT EDGE
SLIP MEMBRANE	- 1200 GAUGE POLYTHENE
SUB-BASE SURFACE TOLERANCE [mm]	- +0 -25mm FROM DATUM
THICKNESS [mm]	- 225

IF MECHANICAL METHODS OF LAYING ARE TO BE EMPLOYED CONSISTENCY IS TO BE AGREED WITH WML

GENERAL NOTES

DO NOT SCALE FROM THIS DRAWING WORK TO FIGURED DIMENSIONS ONLY.

NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS ALLOWED WITHOUT PRIOR PERMISSION IN WRITING.

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND THE SPECIFICATION.

THE CONTRACTOR SHALL INCORPORATE ALL THE REQUIREMENTS OF THE PRE-TENDER STAGE HEALTH AND SAFETY PLAN.

RESIDUAL RISK REGISTER -

REFER TO WML CIVIL / STRUCTURAL DESIGN RISK REGISTER IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORKS INDICATED ON THIS DRAWING. NOTE THE FOLLOWING:-

PRELIMINARY

P01	PRELIMINARY ISSUE.	25.05.22	KPT	AL
Rev.	Amendment	Date	By	Chkd
Project BOLTON WYRESDALE FC RADCLIFFE MOOR ROAD				
Client WESTCHURCH HOMES				
Title EXTERNAL WORKS DETAILS				
WML Job No. 10122	Drawn KPT	Checked AL	Date MAY 2022	Scale N.T.S.
WML CONSULTING Civil, Structural & Geotechnical Engineers No 8 Oak Green Earl Road Stanley Green Business Park Cheshire SK9 6QL Tel 0161 482 0600 Fax 0161 486 9210 e-mail info@wmlconsulting.com www.wmlconsulting.com				
Drawing No. Project Originator Volume Level Type Role Number Rev 10122 - WML - 00 - XX - DR - C - 1006 P01				