SOIL TYPE	PLASTICITY INDEX	DESIGN CBR %	
PLASTIC CLAY	GREATER THAN 50	LESS THAN 2	
SILTY CLAY	40	3	
SANDY CLAY	30	3	
SANDY CLAY	20	LESS THAN 2	
SILT	10	LESS THAN 2	
POORLY GRADED SAND	-	7*	(20)
WELL GRADED SAND	-	10*	(40)
WELL GRADED SANDY GRAVEL	-	15*	(60)
MADE GROUND		<2% **	
ENGINEERED FILL		MINIMUM 2% ***	
	LUMES SOME PROBABILIT	Y OF THE	MATERIAL
*** SPECIALI WATER T. THE FIGU ** SPECIALI DETERMII REQUIRE *** DESIGN C MATERIAI TRAFFICA	ING IN SERVICE. IF THE I ABLE POSITION MAKE TH RES BRACKETED MAY BI ST INVESTIGATIONS WILI NE THE EXTENT OF GRO	Y OF THE DRAINAGE IIS VERY U E USED. BE REQU UND IMPRO HOICE OF JMED LIMI EASURES	MATERIAL AND NLIKELY IRED TO OVEMENT FILL T OF
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** SPECIALI WATER T. THE FIGU ** SPECIALI DETERMII REQUIRE *** DESIGN C MATERIAI TRAFFICA NOTE: FOR CBR LE NECESSARY TO PE	ING IN SERVICE. IF THE I ABLE POSITION MAKE TH RES BRACKETED MAY B ST INVESTIGATIONS WILL NE THE EXTENT OF GRO D. BR DEPENDANT UPON C MINIMUM 2% CBR ASSI ABILITY OF FILL.	Y OF THE DRAINAGE IIS VERY U E USED. BE REQU UND IMPRO HOICE OF JMED LIMI EASURES / NDATION S	MATERIAL AND NLIKELY IRED TO DVEMENT FILL T OF ARE UPPORT.

450mm THICKNESS REQUIRED ON ALL SUB-GRADES. PLASTICITY INDEX OF MATERIAL MUST BE DETERMINED AS THIS MAY OVERRIDE CBR RESULTS TO DICTATE CONSTRUCTION DEPTH.

ONCE RESULTS HAVE BEEN OBTAINED, FINAL CONSTRUCTION MAKEUP TO BE AGREED WITH KCC ENGINEER

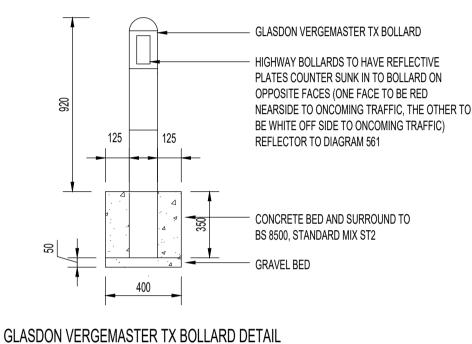
CBR VALUE	SUB-BASE THICKNESS	CAPPING LAYER THICKNESS	
< 2.0%	150 mm	600 mm	
2.0% - 3.0%	480 mm	NIL	
3.0% - 5.0%	370 mm	NIL	
5.0% - 10.0%	270 mm	NIL	
10.0% - 15.0%	220 mm	NIL	
> 15%	150mm	NIL	

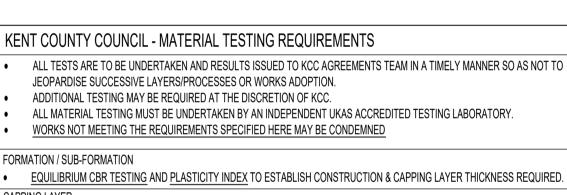
SUB-BASE SHALL BE CATEGORY A MATERIAL IN ACCORDANCE WITH CLAUSE 803 OF THE SPECIFICATION FOR HIGHWAY WORKS AND BS-EN 13285

WHERE SUB-GRADE IS FROST SUSCEPTIBLE THE FOUNDATION SHALL BE INCREASED AS NECESSARY TO ACHIEVE A TOTAL CONSTRUCTION DEPTH OF AT LEAST 450mm

WHERE CBR IS 3% OR LESS A NON WOVEN GEOTEXTILE EARTHWORKS SEPARATION LAYER (TERRAM 1000 OR SIMILAR) SHALL BE INTRODUCED BENEATH THE FOUNDATION

TABLE A - FOUNDATION DESIGN MAJOR ACCESS ROAD/ COUNTRY LANE





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Scale 1-20

- CAPPING LAYER STIFFNESS MODULUS TEST (BY PORTABLE DYNAMIC PLATE) OF 60MPa MAINTAINED UNTIL CARRIAGEWAY
- CONSTRUCTION IS COMPLETE. TESTS SHALL BE CARRIED OUT EVERY 10m OF CARRIAGEWAY.
- GRADING ANALYSIS AND MOISTURE CONTENT TO CHECK COMPLIANCE WITH MATERIAL SPECIFICATION.

SUB-BASE GRANULAR TYPE 1 MATERIAL

- NUCLEAR DENSITY TEST TO CHECK COMPACTION CARRIED OUT EVERY 20m OF CARRIAGEWAY. THE MATERIAL SHALL ACHIEVE AT LEAST 95% DENSITY WHEN COMPACTED, MEASURED IN-SITU USING A CALIBRATED NUCLEAR DENSITY METER. RECENT TARGET DENSITY FIGURE TO BE USED, OBTAINED FROM SUPPLIER.
- STIFFNESS MODULUS TEST (BY PORTABLE DYNAMIC PLATE) OF 100MPa MAINTAINED UNTIL CARRIAGEWAY CONSTRUCTION IS COMPLETE. TESTS SHALL BE CARRIED OUT EVERY 20m OF CARRIAGEWAY.
- GRADING ANALYSIS AND MOISTURE CONTENT TO CHECK COMPLIANCE WITH MATERIAL SPECIFICATION.
- LAYER SHALL BE DIPPED BY THE AGREEMENTS ENGINEER TO ACHIEVE WITHIN +10/-30mm OF FINISHED LAYER LEVEL.
- HBM NOTE: LAYING MUST SATISFY ALL NORMAL TEMPERATURE REQUIREMENTS FOR A CEMENT BOUND MATERIAL 7 & 28 DAY CUBE STRENGTH FROM MATERIAL AT SOURCE & OF DELIVERED MATERIAL. SAMPLING EVERY 200 TONNES.
- STIFFNESS MODULUS TEST (BY PORTABLE DYNAMIC PLATE) CARRIED OUT EVERY 20m OF CARRIAGEWAY, ON SAME DAY OF LAYING, AND AGAIN 24hrs LATER. LAYER SHALL BE DIPPED BY THE AGREEMENTS ENGINEER TO ACHIEVE WITHIN +10/-30mm OF FINISHED LAYER LEVEL.

FLEXIBLE CARRIAGEWAY

- AIR TEMPERATURES MUST BE 5°C (MIN) AND RISING THROUGHOUT LAYING. THIS IS DUE TO THE MULTIPLE WEATHER-RELATED VARIABLES THAT CAN ADVERSELY IMPACT THE LAYERS INTEGRITY (E.G WIND SPEED, AIR & GROUND TEMPERATURES, FROST ECT).
- A MAXIMUM OF ONE COURSE SHALL BE LAID IN ANY ONE DAY TO PROVIDE ASSURANCE THAT THE MATERIAL HAS SUFFICIENTLY COOLED/CURED, AND TO AVOID RUTTING, IN ORDER TO MAINTAIN THE INTEGRITY OF THE MATERIAL FOR THE LENGTH OF ITS LIFESPAN.

BASE COURSE

- LAYER SHALL BE DIPPED BY THE AGREEMENTS ENGINEER TO ACHIEVE WITHIN +15/-15mm OF FINISHED LAYER LEVEL. GRADING ANALYSIS AND BINDER CONTENT TO BE TESTED IN THE LABORATORY (ONE SAMPLE EVERY 200 TONNES)
- NUCLEAR DENSITY TEST TO CHECK COMPACTION SHALL BE CARRIED OUT EVERY 20m OF CARRIAGEWAY, 93% COURSE MACADAM, 95% ROLLED ASPHALT. A SAMPLE MUST BE TAKEN FOR LABORATORY TESTING.
- MATERIAL DELIVERY, LAYING AND ROLLING TEMPERATURE RECORDS

BINDER COURSE

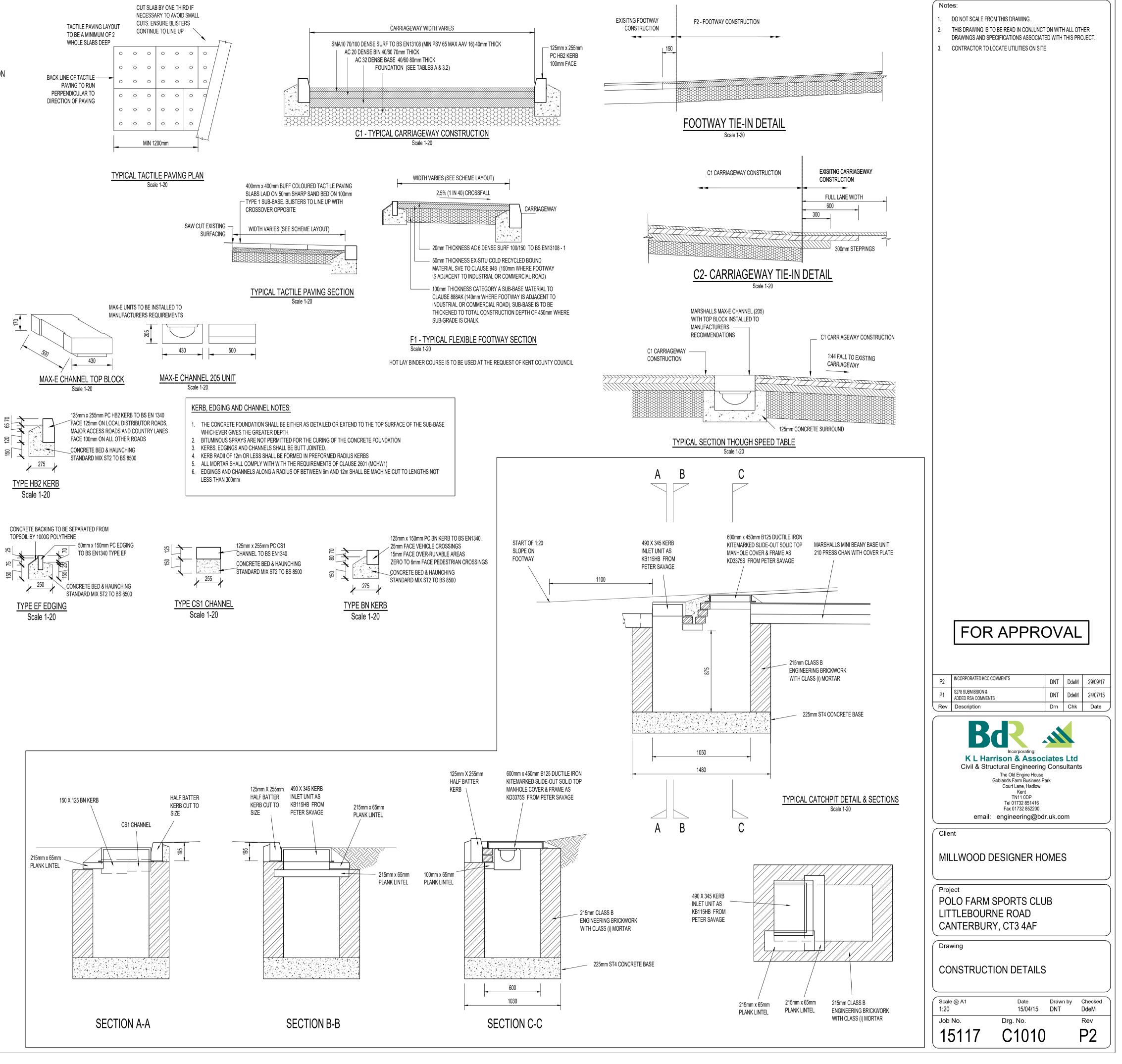
- LAYER SHALL BE DIPPED BY THE AGREEMENTS ENGINEER TO ACHIEVE WITHIN +0/-15mm OF FINISHED LAYER LEVEL. GRADING ANALYSIS AND BINDER CONTENT TO BE TESTED IN THE LABORATORY (ONE SAMPLE EVERY 200 TONNES)
- NUCLEAR DENSITY TEST TO CHECK COMPACTION IF THICKNESS 60mm OR ABOVE, SHALL BE CARRIED OUT EVERY 20m
- OF CARRIAGEWAY. A SAMPLE MUST BE TAKEN FOR LABORATORY TESTING. MATERIAL DELIVERY, LAYING AND ROLLING TEMPERATURE RECORDS

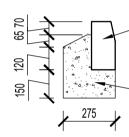
SURFACE COURSE - STRICTLY NO OVERBANDING

- LAYER SHALL BE DIPPED BY THE AGREEMENTS ENGINEER TO ACHIEVE WITHIN +6/-0mm OF FINISHED LAYER LEVEL. GRADING ANALYSIS AND BINDER CONTENT TO BE TESTED IN THE LABORATORY (ONE SAMPLE EVERY 60 TONNES)
- TEXTURE DEPTH TO BE CARRIED OUT ON SMA & HRA SURFACE COURSE MATERIALS.
- MATERIAL DELIVERY, LAYING AND ROLLING TEMPERATURE RECORDS
- FLEXIBLE FOOTWAYS & CYCLEWAYS STRICTLY NO OVERBANDING
- *LAYER SHALL BE DIPPED BY THE AGREEMENTS ENGINEER [+10/-30mm (SUB-BASE) AND +0/-6mm (BINDER)]
- *TESTS MARKED WITH ASTERISK MAY BE REQUIRED AT THE DISCRETION OF THE AGREEMENTS ENGINEER

TACTILE PAVING LAYOUT TO BE A MINIMUM OF 2 WHOLE SLABS DEEP 0 0 PAVING TO RUN 0 0

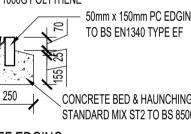
Scale 1-20



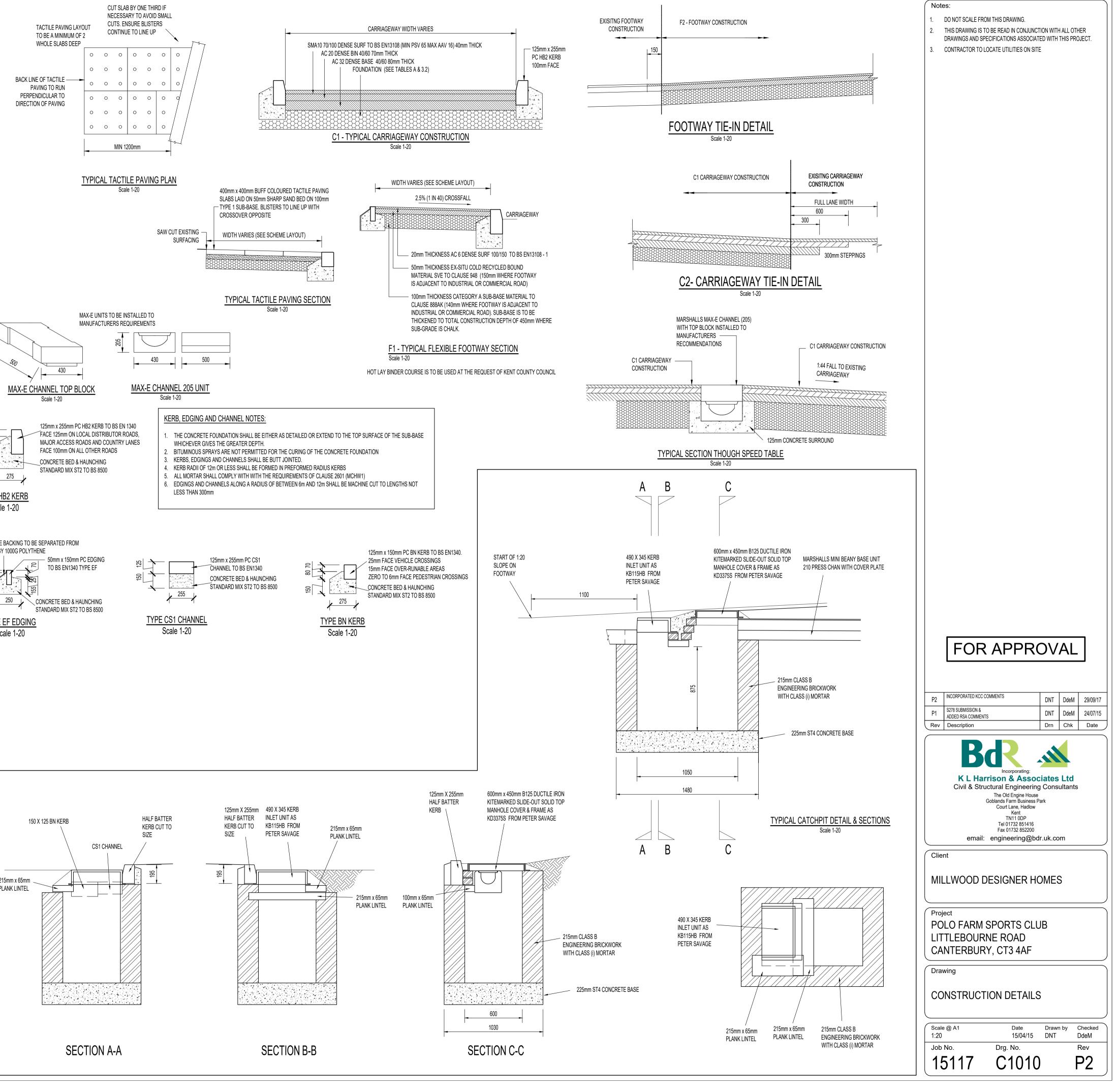












SCALE 1-20