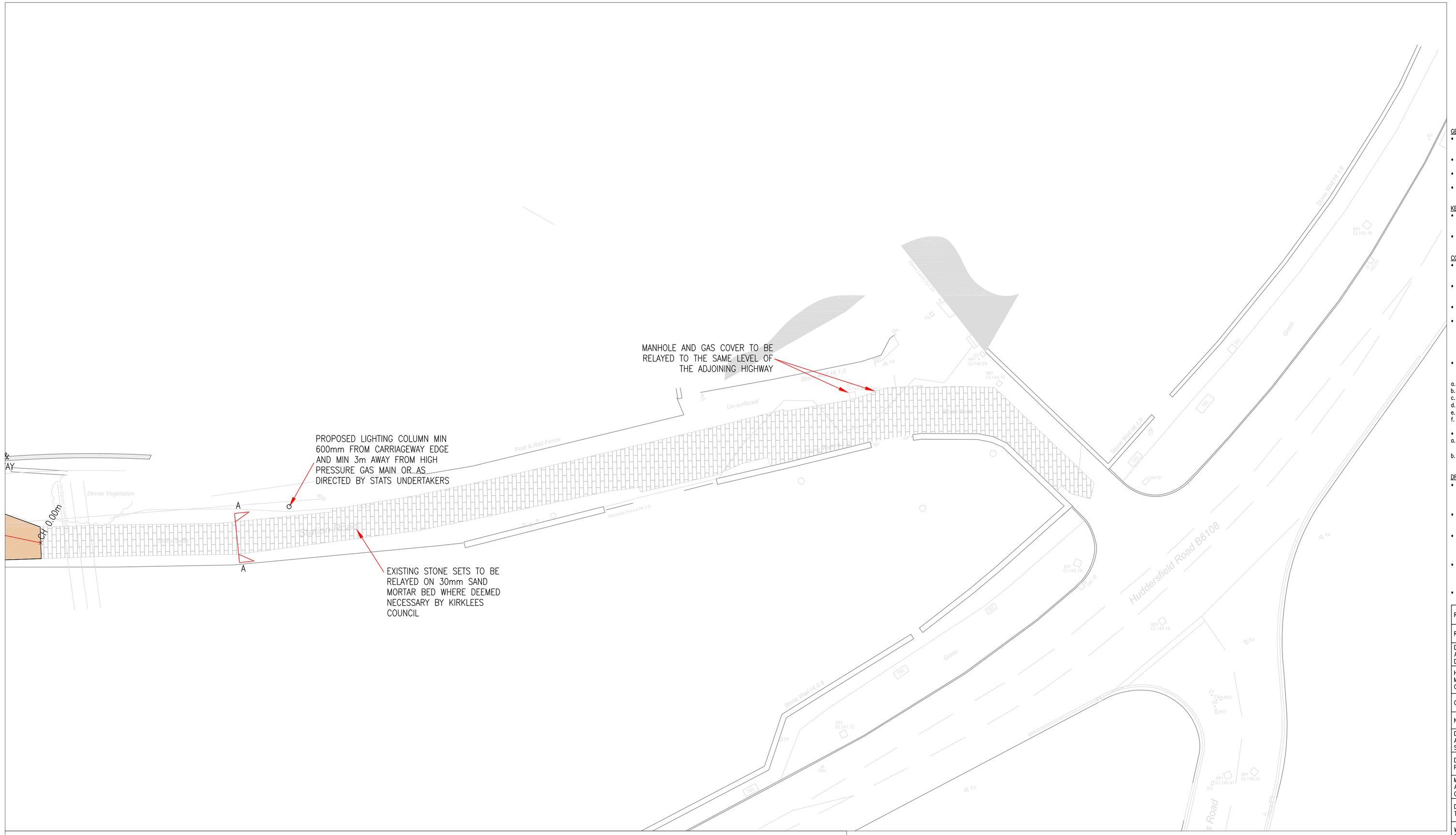


GENERAL NOTES:

- THIS DRAWING SHOWS THE DETAILED DESIGN ONLY AND IS SUBJECT TO LOCAL AUTHORITY APPROVAL. THIS DRAWING SHOULD NOT BE SCALED FOR SETTING OUT PURPOSES.
- THIS DRAWING IS BASED ON A TOPOGRAPHICAL SURVEY PROVIDED BY OTHERS.
- BITUMEN TACK COAT TO BE APPLIED BETWEEN EACH BITUMEN LAYER.
- THE LAYOUT AND POSITIONS OF ANY PEDESTRIAN CROSSINGS TO BE AGREED WITH THE LOCAL AUTHORITY ENGINEER ON SITE.

KERBING NOTES:

- CONCRETE KERBS ABUTTING TARMAC SURFACING ARE REQUIRED TO BE PAINTED WITH A TACK COAT OF 200PEN BITUMEN.
- ANY KERBS THAT ARE TO REMAIN IN-SITU AND ARE EITHER DAMAGED OR ARE OUT OF HORIZONTAL/VERTICAL ALIGNMENT WILL NEED REPLACING WITHIN THE S278 LIMITS AREA.

CONSTRUCTION NOTES:

- ANY SOFT AREAS WILL REQUIRE EXCAVATING UNTIL FIRM GROUND IS FOUND AND BACKFILLING WITH A 6F2 MATERIAL AND TO BE COMPACTED IN 150mm LAYERS.
- PAVEMENT CONSTRUCTION TO BE USED WOULD BE SELECTED ON THE BASIS OF CBR VALUES OBTAINED ON SITE ONCE CONSTRUCTION OF ROAD IS UNDERWAY.
- GRANULAR SUB BASE LAYERS TO BE COMPACTED IN DEPTH LAYERS OF NO GREATER THAN 150mm.
- WHEN THE WIDTH OF THE BASE OR SUB BASE IS LESS THAN 1.0m, CONCRETE MIX ST5 25 N/mm² SHALL BE USED IN LIEU. THE WIDTH OF THE CONCRETE WILL VARY FROM 0.0m TO 1.0m; ALTHOUGH IN LIEU OF SUB BASE UNDER THE KERBS, THE WIDTH WILL NOT BE LESS THAN TOTAL THICKNESS OF THE FULL CARRIAGEWAY CONSTRUCTION. 100mm OF SURFACING IS REQUIRED ON TOP OF THE ST5 CONCRETE.
- PLANED CARRIAGEWAY AREAS OR ANY NEWLY LAID TARMAC MORE THAN 24 HOUR OLD REQUIRES A HOT TANKER APPLIED BITUMEN TACK COAT IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS, AS FOLLOWS:

a. BINDER CLASSIFICATION AND APPLICATION DETAILS TO CL.920
b. THE BINDER SHALL BE BITUMEN EMULSION TO BS 434:PART 1
c. THE BINDER SHALL BE CLASS A1-40 OR K1-40
d. RATE OF SPREAD SHALL BE 0.3 TO 0.5/m2
e. PERMITTED ADDITIVES TO BINDER: NONE
f. BINDING MATERIAL: NONE

- CARRIAGEWAY OVERBREAK AREAS REQUIRE:

a. PLANED HORIZONTAL FACES TO BE SPRAYED WITH BITUMEN EMULSION CLASS K1-40 BS 434 AT RATE OF SPREAD 05.±0.1 L/m2
b. VERTICAL PLANED FACES TO BE COATED WITH ah 50 TO 70 PEN GRADE HOT OR EMULSION BITUMEN BY BRUSHING OR PURING TO ACHIEVE APPROXIMATELY 2mm THICKNESS.

DRAINAGE/UTILITIES NOTES:

- ANY POLISHED/DAMAGED INSPECTION CHAMBERS WILL REQUIRE REPLACING WITH A CLASS D400 600x600x150 COVER AND FRAME AND PLACED ON A SOLID CLASS B ENGINEERING BRICK WITH A CLASS 1 (1:3) MORTAR BED TO THE FINISHED SURFACE COURSE MATERIAL.
- ANY STATUTORY UTILITY COVERS/FRAMES THAT ARE DAMAGED WILL REQUIRE RENEWING AND RESETTING TO THE NEW FINISHED SURFACE LEVELS. ANY DAMAGED DURING WORKS WILL NEED TO BE REPLACED.
- ALL NEWLY INSTALLED STATUTORY UNDERTAKERS APPARATUS WILL REQUIRE THE APPROPRIATE WARNING TAPE/ARMOURED TAPE TO BE LAID ON TOP OF THEIR DUCTS, AND ALL DUCTS SHOULD BE LAID TO THE DEPTHS IN ACCORDANCE WITH THE LATEST NJUG GUIDANCE PUBLICATION.
- GULLIES LOCATED IN SHARED USE SURFACES MUST HAVE SUITABLE PEDESTRIAN AND CYCLIST FRIENDLY COVERS. THE OPENINGS IN GULLY GRATINGS MUST NOT ALIGN WITH CYCLISTS ANTICIPATED WHEEL TRACKS.
- ANY DOUBLE GULLIES TO HAVE INDIVIDUAL GULLY LEADS.

RISK ASSESSMENT:

RISK	LEVEL OF RISK (H/M)	SUGGESTED ACTION
DEEP EXCAVATIONS ASSOCIATED WITH NEW DRAINAGE WORKS	HIGH	ENSURE ALL EXCAVATIONS HAVE ADEQUATE TRENCH SUPPORTS
HANDLING LARGE DIAMETER MANHOLE RINGS AND CIRCULAR PIPES	HIGH	USE CORRECT LIFTING EQUIPMENT AND ENSURE OPERATIVES WEAR APPROPRIATE PROTECTIVE CLOTHING/HARD HATS/CORRECT PPE
CONTACT WITH SEWAGE	MED	OPERATIVES TO USE CORRECT BREATHING EQUIPMENT/CORRECT PPE
NOISE	MED	OPERATIVES TO USE CORRECT EAR PROTECTION/CORRECT PPE
DRAINAGE EXCAVATIONS ADJACENT EXISTING BOUNDARY STRUCTURES	HIGH	ENSURE CORRECT SUPPORTS ARE PROVIDED TO TRENCHES AND BUILDINGS WHERE REQUIRED
DRAINAGE EXCAVATION IN PUBLIC HIGHWAY	HIGH	ENSURE CORRECT USE OF TRENCH SUPPORTS IN EXCAVATION AND SCREEN BARRIERS TO PROTECT MEMBERS OF THE PUBLIC
MAINTAIN ACCESS TO ADJACENT PROPERTIES AND OCCUPIERS	HIGH	ENSURE WORKS ARE PROTECTED WITH BARRIERS AND SIGNS TO GUIDE THE PUBLIC AWAY FROM WORKS
DRAINAGE EXCAVATIONS NEAR TO EXISTING SERVICES	HIGH	ENSURE WORKS ARE PROTECTED WITH BARRIERS AND SIGNS TO GUIDE MEMBERS OF THE PUBLIC AWAY FROM THE AREA
WORKING IN CONFINED SPACES. WORKING IN DRAINS AND MANHOLES	HIGH	CONFINED SPACES WORKING TRAINED PERSONNEL ONLY TO CARRY OUT WORKS UNDER A PERMIT TO WORK SCHEME IMPLEMENTED BY CONTRACTOR. GAS TESTING TO TAKE PLACE BEFORE ALL ENTRIES TO CONFINED SPACES
WORKING IN HIGHWAYS / RISKS FROM VEHICLE AND PLANT	HIGH	ALL WORKS TO BE SIGNED AND FENCED FROM NORMAL VEHICULAR TRAFFIC. ALL WORKERS TO WEAR HIGH VISIBILITY CLOTHING. ALL PLANT TO HAVE VISUAL AND AUDIBLE WARNING SYSTEMS
ROAD AND DRAINAGE CONSTRUCTION	HIGH	ALL EXCAVATIONS TO BE ADEQUATELY FENCED OFF AND SUPPORTED DURING CONSTRUCTION. ALL OPERATIVES TO BE TRAINED IN CORRECT METHODS OF LIFTING AND WORK IN ACCORDANCE WITH LOLER REGS

IT IS ASSUMED THAT WORKS ASSOCIATED WITH THIS DESIGN WILL BE UNDERTAKEN BY A PERSON OR PERSONS WHO ARE COMPETENT AND HAVE THE REQUIRED LEVEL OF EXPERIENCE AND EXPERTISE.

HATCHING KEY

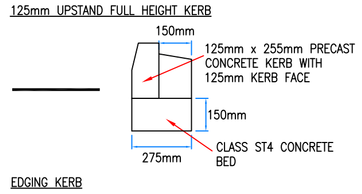
PAVEMENT CONSTRUCTION

FOOTWAY CONSTRUCTION (BLOCK PAVED)

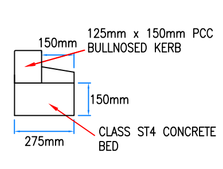
RELAYED SETTS

KERBING KEY

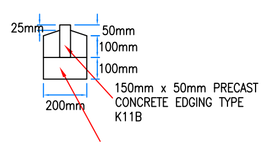
125mm UPSTAND FULL HEIGHT KERB



FLUSH DROP KERB



EDGING KERB



PROPOSED TRANSITION KERB
125mm X 255mm HB TO BN LEFT HAND REF NO. RK4300010
125mm X 255mm BN TO HB RIGHT HAND REF NO. RK4300020
(OR AS NOTED ON DRAWING)

PAVEMENT DESIGN

ROAD LAYER	ALTERNATIVE MATERIAL	SHARED SURFACE / HOME ZONE		LOCAL RESIDENTIAL STREET	CONNECTOR STREET	INDUSTRIAL ROAD
SURFACE COURSE	14mm STONE MASTIC ASPHALT SURFACE COURSE SMA 14 SURF 40/60				40	40
	0/6mm DENSE SURFACE COURSE AC.6 DENSE SURF 100/150	30		30		
	CONCRETE BLOCK PAVING ON 30mm SAND BED RED OR BRINDLE OR SIMILAR APPROVED. (TEGULA / YORKSTONE IN CONSERVATION AREA)		80	N/A	N/A	N/A
BINDER COURSE	0/20 DENSE BINDER COURSE AC.20 DENSE BIN 100/150	55		55	55	55
BINDER COURSE	0/32 DENSE / BINDER COURSE AC.32 DENSE BASE / BIN 100/50	85		85	85	150

FOOTWAY / MARGIN CONSTRUCTION

TYPE	SUB-BASE	BINDER COURSE	SURFACE COURSE
PEDESTRIAN FOOTWAY OR FOOTPATH	100mm TYPE 1	40mm 0/20 DENSE BINDER COURSE AC20 DENSE BIN 100/150	25mm 0/6 DENSE SURFACE COURSE AC20 DENSE BIN 100/150
VEHICULAR FOOTWAY CROSSING	150mm TYPE 1	60mm 0/20 DENSE BINDER COURSE AC20 DENSE BIN 100/150	25mm 0/6 DENSE SURFACE COURSE AC20 DENSE BIN 100/150
HARD MARGIN	150mm TYPE 1	30mm SAND BINDER COURSE AS SPECIFIED BS7533 PART 3 0.063/6.3mm	80mm THICK CONCRETE BLOCK PAVIORS (CHARCOAL COLOUR) STRETCHER BOND
TACTILE PAVING	150mm ST4 CONCRETE	15mm MORTAR BED	450mm x 450mm x 50mm TACTILE PAVING (PARALLEL ROWS OF FLAT-TOPPED BLISTERS 5mm (±0.5mm) HIGH, 25mm IN DIAMETER, PITCH 64-67mm)

REV	DATE	DESCRIPTION

PARAGON HIGHWAYS
UNIT 2, THE OFFICE CAMPUS,
PARAGON BUSINESS PARK, RED HALL COURT,
WAKEFIELD WF1 2UY
01924 291536 / MAIL@PARAGONHIGHWAYS.COM

JOB	DWG	REV
802	01	G

SCALE: 1:200 @A1

DATE: JAN 2018

STATION ROAD, MELTHAM

DRAWN BY: JJH

CHECKED BY: AH