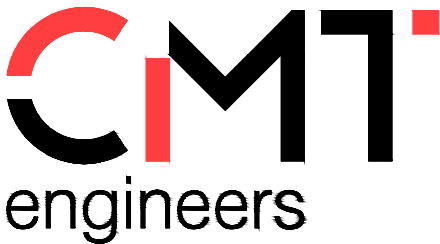


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APPLICATION REF
A007122514

PROPOSED RESIDENTIAL DEVELOPMENT
54 TOOMBUL TERRACE NUNDAH QLD 4012
HERRIGAN ENTERPRISES PTY LTD



LOCALITY PLAN
SCALE 1:1000 (A1)

DRAWING INDEX	
DWG. No.	DESCRIPTION
GENERAL (C000)	
C000	COVER SHEET & DRAWING INDEX
ROADWORKS (C100)	
C101	ROADWORKS & DRAINAGE LAYOUT PLAN
C102	INTERNAL PAVEMENT JOINT LAYOUT PLAN
C103	INTERNAL PAVEMENT JOINT DETAILS & NOTES
STORMWATER (C200)	
C201	STORMWATER CATCHMENT PLAN
C202	STORMWATER DRAINAGE NOTES & DETAILS
FILLING AND EXCAVATION (C300)	
C301	BULK EARTHWORKS NOTES
C302	BULK EARTHWORKS PLAN
C303	BULK EARTHWORKS SECTIONS
EROSION AND SEDIMENT CONTROL (C400)	
C401	EROSION & SEDIMENT CONTROL LAYOUT PLAN
C402	EROSION & SEDIMENT CONTROL NOTES & DETAILS
SEWER RETICULATION (C500)	
C501	SEWERAGE RETICULATION LOCALITY & NOTES
C502	SEWERAGE RETICULATION LAYOUT PLAN
C503	SEWERAGE RETICULATION DETAILS
WATER RETICULATION (C600)	
C601	WATER RETICULATION LOCALITY & NOTES
C602	WATER RETICULATION LAYOUT PLAN
SIGNS & LINE MARKING (C700)	
C701	SIGNS & LINE MARKING PLAN

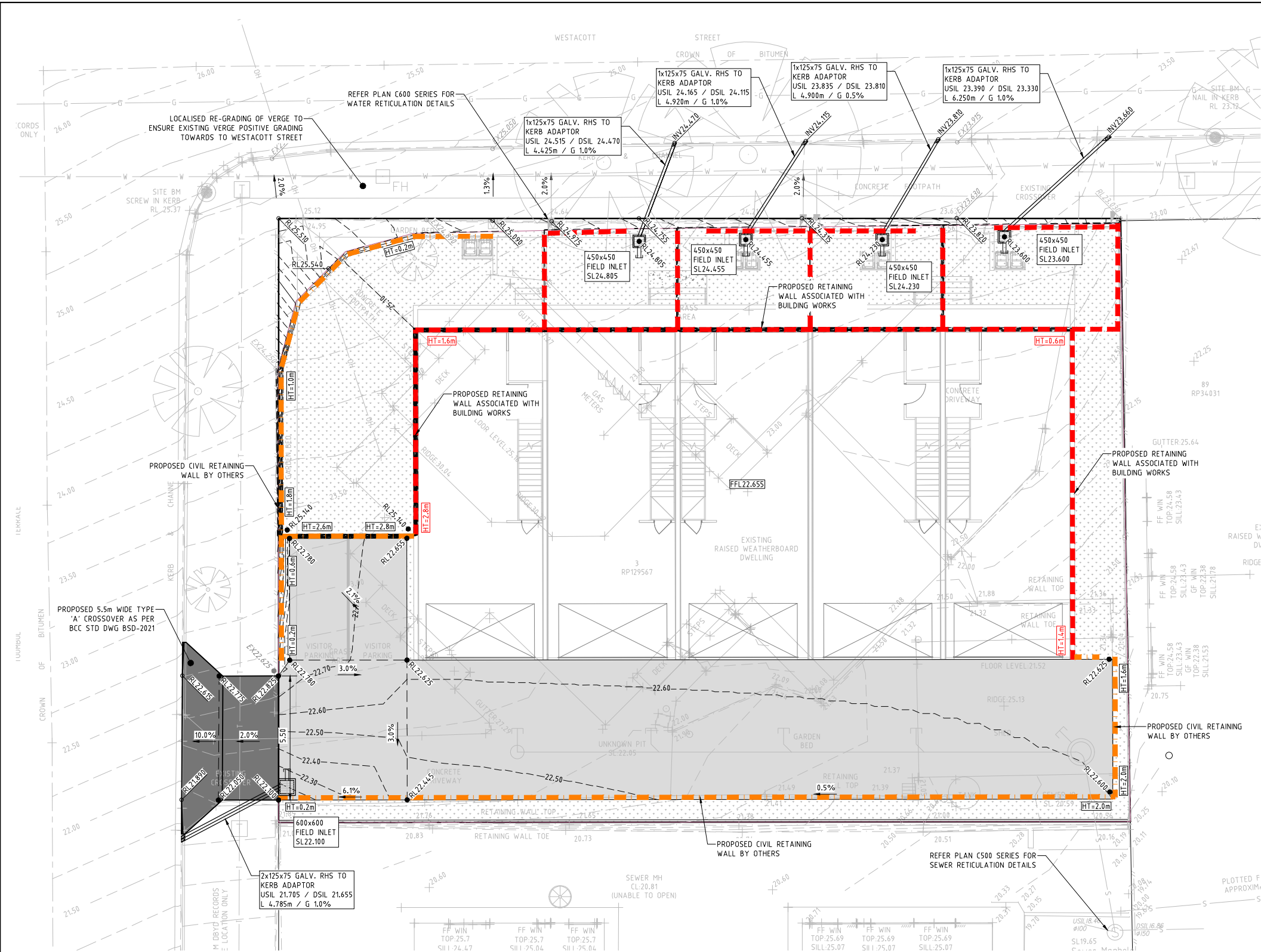
IMAGERY, CADASTRAL AND SURVEY DATA DISCLAIMER

WHILE EVERY CARE IS TAKEN BY CMT ENGINEERS TO ENSURE THE ACCURACY OF THE DATA SUPPLIED BY LOCAL AUTHORITIES, DIAL BEFORE YOU DIG (DBYD) RECORDS, AS CONSTRUCTED INFORMATION AND DETAILED SURVEY, WE MAKE NO REPRESENTATIONS OR WARRANTIES ABOUT ITS ACCURACY, RELIABILITY, COMPLETENESS OR SUITABILITY FOR ANY PARTICULAR PURPOSE AND DISCLAIM ALL RESPONSIBILITY AND ALL LIABILITY (INCLUDING WITHOUT LIMITATION, LIABILITY IN NEGLIGENCE) FOR ALL EXPENSES, LOSSES, DAMAGES (INCLUDING INDIRECT OR CONSEQUENTIAL DAMAGE) AND COSTS WHICH MAY BE INCURRED AS A RESULT OF DATA BEING INACCURATE OR INCOMPLETE IN ANY WAY AND FOR ANY REASON.

- GENERAL NOTES
- THE CONTRACTOR IS TO VERIFY THE LOCATION & RELATIVE LEVELS OF EXISTING SERVICES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS TO TAKE ALL NECESSARY PRECAUTIONS REGARDING CONSTRUCTION ADJACENT TO EXISTING SERVICES.
 - THE CONTRACTOR SHALL PREPARE AN "AS CONSTRUCTED" DETAIL SURVEY PLAN SHOWING FINISHED SURFACE LEVELS & CONTOURS TO LOCAL AUTHORITY STANDARDS.
 - THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE LANDSCAPE ARCHITECTS, OTHER CONSULTANTS PLANS, SPECIFICATIONS AND OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED BY THE SUPERINTENDENT DURING THE COURSE OF THE CONTRACT. THE CONTRACTOR IS TO LIAISE WITH THE LOCAL AUTHORITY PRIOR TO COMMENCING CONSTRUCTION.
 - ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT LOCAL AUTHORITY & CMT ENGINEERS STANDARD METHODS, SPECIFICATION & DRAWINGS.
 - TRAFFIC & PEDESTRIAN CONTROL MEASURES ARE TO BE PROVIDED TO LOCAL AUTHORITY & SUPERINTENDENTS SATISFACTION.

PRELIMINARY ISSUE

ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.	SURVEYOR ONF SURVEYORS	 Suite 2, Level 2, 96 Mount Gravatt Capalaba Road, Upper Mount Gravatt, QLD 4122	DESIGN:	DATE:	DESIGN CHECK:	DATE:
A	PRELIMINARY ISSUE	14.05.2026	KST	BM	FILE NAME 8315_D1_A LEVEL DATUM AHD PM17515 RL39.187 RP DESCRIPTION LOT 3 RP129567		KST		CMT	
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							CHING MENG TAN	RPEQ No. 11311		
							PROJECT NUMBER / SHEET			
							C26-219		C000	
									ISSUE	
									A	



LEGEND

PROPOSED STORMWATER DRAINAGE

PROPOSED RETAINING WALL ASSOCIATED WITH BUILDING WORKS

PROPOSED CIVIL RETAINING WALL BY OTHERS

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ISSUE STAMP

PRELIMINARY ISSUE

SURVEY INFORMATION

PM17515 RL39.187

NORTH

CITY COUNCIL APPROVAL NUMBER:

CLIENT:

HERRIGAN ENTERPRISES
PTY LTD

PROJECT TITLE:

PROPOSED RESIDENTIAL DEVELOPMENT AT 54
TOOMBUL TCE NUNDAH QLD 4012

DRAWING TITLE:

ROADWORKS & DRAINAGE LAYOUT PLAN

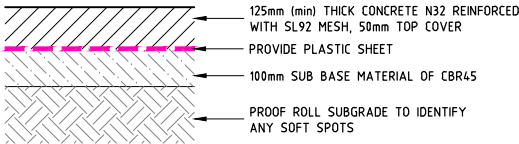
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C26-219			
RPEQ No:1311			
C101			

REINFORCED CONCRETE NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH A.S. 3600 CURRENT EDITION WITH AMENDMENTS.
2. THE CLASS OF CONCRETE SHALL BE N25.
3. WHEN ORDERING OR PROPORTIONING CONCRETE THE CONTRACTOR SHALL CHECK WITH THE SUPERVISING OFFICER TO ENSURE THAT THE CONCRETE COMPLIES WITH THE ABOVE STRENGTH REQUIREMENTS.
4. MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 20mm U.N.O.
5. THE CONCRETE SHALL HAVE A SLUMP OF 75mm WHEN BEING PLACED.
6. MINIMUM TOP COVER TO REINFORCEMENT SHALL BE 50mm U.N.O.
7. COVER TO REINFORCEMENT SHALL BE OBTAINED BY THE USE OF WIRE OR PLASTIC BAR CHAIRS FOR BOTTOM REINFORCEMENT. ALL CHAIRS TO BE SPACED AT 750 CRS. MAX.
8. THE CONCRETE SHALL BE COMPACTED USING HIGH FREQUENCY VIBRATORS.
9. ALL NUMBERS INDICATING TYPES OF HARD DRAWN STEEL WIRE FABRIC. REFER TO A.S. 1304.
10. JOINTS SHALL BE INSTALLED AT THE LOCATIONS SHOWN UNLESS AMENDMENTS ARE APPROVED ON SITE BY THE SUPERVISING ENGINEER.
11. THE SUBGRADE SHALL BE KEPT CONTINUOUSLY WET DURING THE PLACEMENT OF CONCRETE. THE EXPOSED SURFACE OF CONCRETE SHALL BE KEPT CONTINUOUSLY MOIST FOR A PERIOD OF 7 DAYS AFTER PLACEMENT.
12. THE CONTRACTOR IS TO FINISH ALL CONCRETE DRIVEWAYS & SLABS EVENLY WITH A NON SLIP SKID RESISTANT & LIGHTLY PATTERNED BROOM FINISH OR AS APPROVED BY COUNCIL
13. STEEL REINFORCEMENT SHALL COMPLY WITH A.S. 4671. ALL STEEL SHALL BE D500 DUCTILITY CLASS N.
14. CURING METHOD OF CONCRETE TO BE PROVIDED TO THE ENGINEER BY CONTRACTOR FOR SUITABILITY.

COMPACTION NOTES

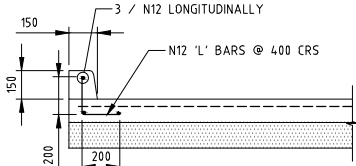
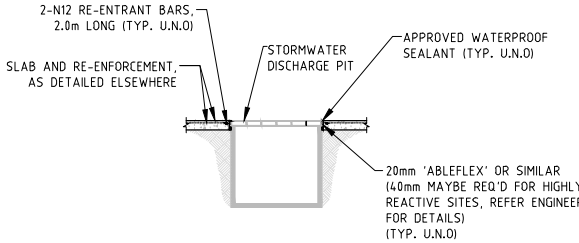
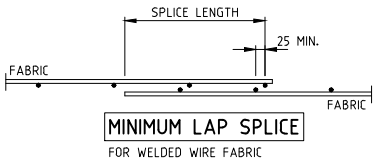
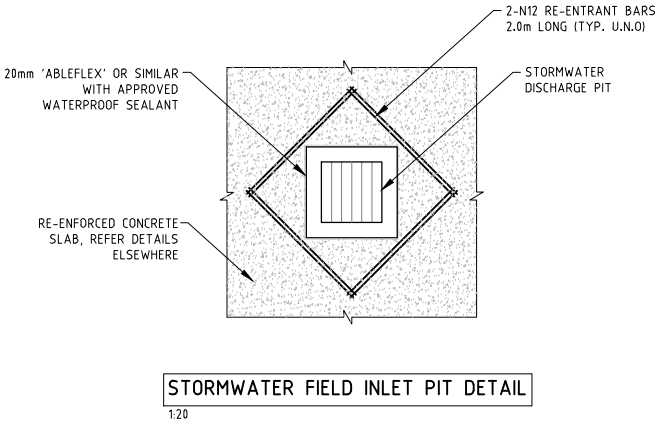
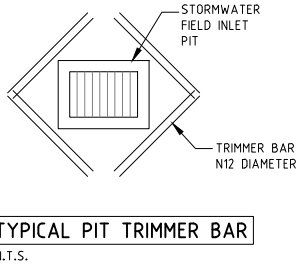
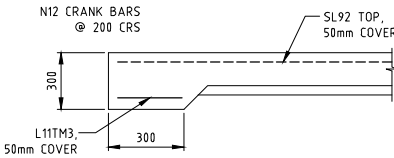
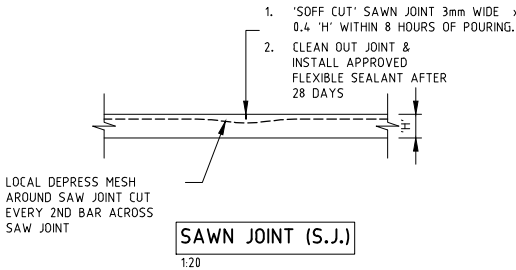
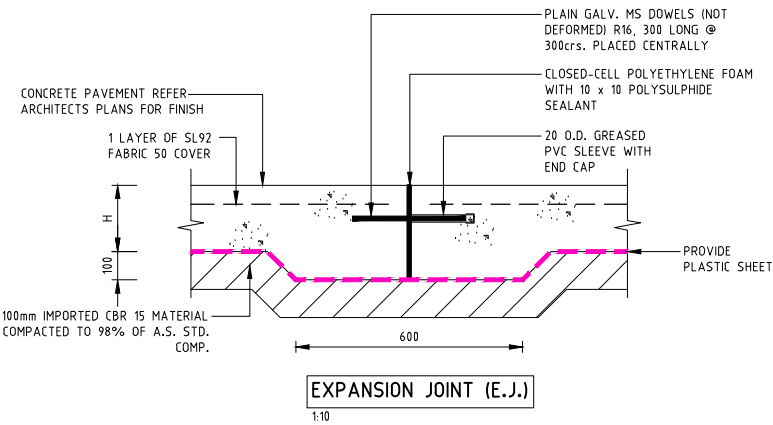
1. AREAS REQUIRING FILLING TO BE COMPACTED IN LAYERS OF 150mm TO 200mm DEPTH WITH MINIMUM CBR 15+ IMPORTED SELECT FILL.
2. COMPACTION TO BUILDING AREAS TO BE 98% STANDARD
3. TO PLATFORM - LESS THAN 300mm BELOW PAVEMENT 98% STANDARD - GREATER THAN 300mm BELOW PAVEMENT 95% STANDARD
4. ALL FILLING TO BE CARRIED OUT IN ACCORDANCE WITH ALL RELEVANT AND CURRENT AUSTRALIAN STANDARDS
5. SITE TO BE STRIPPED OF ALL TOP SOIL PRIOR TO FILLING OF SITE AND ALL AREAS PROOF ROLLED.
6. ALL SOFT SPOTS ARE TO BE REMOVED AND BACK FILLED WITH APPROVED BACK FILL & COMPACTED



INTERNAL CONCRETE ROAD PAVEMENT

NOT TO SCALE

THIS SUBGRADE MUST BE TESTED FOR CBR VALUE BY CONTRACTOR & SUBMITTED TO ENGINEER FOR CONCRETE PAVEMENT THICKNESS DESIGN CONFIRMATION



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SURVEYOR	ONF SURVEYORS
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LAND SIZE	0.1014 HA

CITY COUNCIL APPROVAL NUMBER:	
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SCALE BAR	

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PROPOSED RESIDENTIAL DEVELOPMENT AT 54 TOOMBUL TCE NUNDAH QLD 4012	
DRAWING TITLE:	
INTERNAL PAVEMENT JOINT DETAILS & NOTES	

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CHING MENG TAN			A1
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C26-219			A

STORMWATER & ROOFWATER DRAINAGE
CONSTRUCTION TOLERANCES

1. PRECAST PIPES AND BOX CULVERTS
HORIZONTAL - CENTRELINE DEVIATION FROM NOMINATED POSITION +/-100MM
VERTICAL - WHERE NOMINATED GRADE FLATTER THAN 1:200 DEVIATION FROM I.L. NOMINATED +/-15MM. WHERE NOMINATED GRADE IS STEEPER THAN 1:200 DEVIATION FROM THE NOMINATED +/-25MM
IN ANY CASE THE FOLLOWING ABSOLUTE MINIMUMS SHALL BE MAINTAINED.

PIPE DIAMETER (mm)	MIN GRADE (%)
300	0.50
375	0.40
450	0.30
525	0.25
600	0.20
675	0.18
750	0.15
900	0.12
1050 or GREATER	0.10

2. MANHOLES/INLET STRUCTURES ETC.
HORIZONTAL - DEVIATION FROM NOMINATED +/-100MM
VERTICAL - FLUSH WITH FINISHED SURFACE
3. DISTANCES BETWEEN STRUCTURES TO BE CHECKED PRIOR TO COMMENCEMENT OF LAYING. ANY VARIATION FROM DRAWINGS TO BE REFERRED TO THE SUPERINTENDENT FOR DIRECTION.

NOTE: WHERE ROOFWATER LINES CONNECT TO GULLIES, GULLY LOCATION IS DETERMINED BY ROOFWATER LINE NOT DIGITAL DATA PROVIDED

600 FIELD INLET = 600MM X 600MM FIELD INLET PIT
900 FIELD INLET = 900MM X 600MM FIELD INLET PIT

ALL INLETS SHALL BE CAST INSITU GRATED INLETS WITH 2 X 100 Ø STUBS. REFER I.P.W.E.A.Q. STD. DWG. D-0050 CLASS 2

ALL GRATES TO BE FLUSH TYPE UNO. REFER LONG SECTION FOR CLASS.

STORMWATER DRAINAGE NOTES

1. ALL STORMWATER PIPES Ø375 AND GREATER SHALL BE PRECAST STEEL REINFORCED CONCRETE SPUN PIPES WITH RUBBER RING JOINTS CLASS 3, UNLESS NOTED OTHERWISE ON THE DRAWINGS. PIPES ABOVE Ø600 MAY BE FLUSH JOINTED.
2. ALL uPVC PIPES SHALL BE CLASS SN8 RRJ U.N.O.
3. GRADE STORMWATER PIPES OBVERT TO OBVERT UNLESS NOTED OTHERWISE. MAINTAIN 20mm DROP THROUGH STRUCTURES BETWEEN OBVERTS OF THE SAME SIZE PIPES.
4. MINIMUM COVER TO STORMWATER PIPES UNDER ROAD PAVEMENTS SHALL BE 600mm UNLESS NOTED OTHERWISE.
5. ALL MANHOLE LIDS SHALL FINISH FLUSH WITH ADJACENT FINISHED SURFACE LEVELS
6. PROVIDE A Ø100 SUBSOIL DRAIN WITH SOCK DISCHARGING INTO DRAINAGE STRUCTURES FROM UPSTREAM PIPE BEDDING. EXTEND 300mm INTO PIPE BEDDING.

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT LOCAL AUTHORITY SPECIFICATIONS AND STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS. BENCH MARK AND LEVELS TO AHD.
4. NOTWITHSTANDING THAT THE PRESENT AND/OR PROPOSED POSITIONS OF PUBLIC UTILITIES, FITTINGS, PIPES, POLES, MANHOLES, ETC. MAY BE INDICATED ON THE DRAWINGS. NO RESPONSIBILITY WILL BE ACCEPTED BY THE PRINCIPAL FOR THE ACCURACY OF THE PRESENTATION OR THE OMISSION THEREOF.
5. CONTACT 1100 (DIAL BEFORE YOU DIG), ENERGEX, AGILITY (GAS), SANTOS (OIL), ETC. FOR THE EXACT LOCATION OF UNDERGROUND CABLES.
6. WHERE OVERHEAD PUBLIC UTILITY LINES AND SURFACE DRAINAGE WORKS AND/OR UNDERGROUND PIPES, CONDUITS, OR CABLES, EXIST IN THE VICINITY OF THE WORKS, THE CONTRACTOR SHALL TAKE CARE TO PROTECT SUCH FACILITIES FROM DAMAGE, AND IN THE CASE OF ANY DAMAGE OCCURRING TO SUCH FACILITIES, THE MATTER SHALL BE IMMEDIATELY REPORTED TO THE RELEVANT AUTHORITY AND TO THE SUPERINTENDENT. THE COST OF THE NECESSARY REPAIRS OR RENEWALS SHALL BE BORNE ENTIRELY BY THE CONTRACTOR.
7. NATURAL SURFACE LEVELS ARE FROM DIGITAL TERRAIN MODEL AS SUPPLIED BY THE PROJECT SURVEYOR.
8. THE CONTRACTOR SHALL NOT ENTER ADJACENT PROPERTIES WITHOUT PRIOR WRITTEN APPROVAL FROM THE PROPERTY OWNER.
9. DESIGN FINISHED SURFACE LEVELS OF STRUCTURES ARE FOR THE CONTRACTOR'S GUIDANCE ONLY. ACTUAL FINISHED LEVELS SHALL BE SET OUT AS DIRECTED ON SITE IN KEEPING WITH THE REQUIREMENTS AND SPECIFICATIONS OF BRISBANE CITY COUNCIL AND ACTUAL FINISHED GROUND LEVELS.

STORMWATER PIPE INSTALLATION NOTES

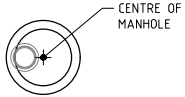
1. REFER PIPE INVERT LEVELS FOR TRENCH DEPTH
2. REFER LAYOUT PLAN FOR DETAILS OF PAVEMENT MATERIAL
3. BEDDING COMPACTION (COMPACTED FILL / SAND BEDDING)
- COHESIVE MATERIAL - 95% COMPACTION (STANDARD)
NON-COHESIVE MATERIAL - DENSITY OF 70 MIN, REFER AS1289.E5.1
SAND - COMPACT BY FLOODING AND USE OF VIBRATORS
4. BACKFILL COMPACTION
- COMPACTED GRAVEL LAYER UNDER ROAD 95% COMPACTION (STANDARD)
COMPACTED CBR15 GRAVEL 95% - BELOW 300mm (STANDARD)
COMPACTED BACKFILL - FOOTPATH / PRIVATE PROPERTY 95%
COMPACTION MAX DENSITIES DETERMINED BY STANDARD COMPACTION TESTS TO AS1289.5.1.1
5. REFER STORMWATER LONGITUDINAL SECTION FOR PIPE SIZE AND DEPTHS.
6. TYPE U AND TYPE H SUPPORT BEDDING NOT SUITABLE FOR USE WITH FIBRE REINFORCED PIPES. FOR FIBRE REINFORCED PIPES TYPE HS BEDDING IS REQUIRED. ALL BEDDING TO CONFORM TO AS 3725
7. PIPES ARE TO BE LAID USING CORRECT STRENGTH CLASS UNDER ALL CONSTRUCTION LOADS.

BEDDING & COMPACTION

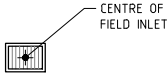
1. COMPACTION TO BE IN ACCORDANCE WITH BCC EARTHWORKS SPECIFICATION.
2. EMBEDMENT AND BACKFILL TO BE IN ACCORDANCE WITH BCC STANDARDS.

TRENCH REINSTATEMENT

1. TRENCH TECHNOLOGY TECHNIQUES ARE THE PREFERRED METHOD FOR ROAD CROSSING SERVICES CONDUITS IN EXISTING ROADWAYS.
2. ASPHALT TO ASPHALT JOINT - SAW CUT EXISTING AC WHERE SHOWN OR AS AGREED WITH COUNCIL REPRESENTATIVE ON SITE TO PROVIDE CLEAN CUT AND SEAL WITH BITUMEN EMULSION CRACK SEALANT. APPLY BITUMEN EMULSION TACK COAT TO ALL OTHER NEWLY EXPOSED ASPHALT SURFACES PRIOR TO PLACEMENT OF REINSTATED ASPHALT PAVEMENT OR SURFACE.
3. ALL EXPOSED FACES OF GRAVEL PAVEMENT TO BE PRIMED DURING SEALING OPERATIONS.
4. WHERE THE TRENCH HAS BEEN CONSTRUCTED LONGITUDINALLY IN THE ROAD, THEN THE FINAL SURFACE REPAIR WIDTH IS TO MATCH THE EXISTING LANE WIDTH AND TERMINATE 50mm CLEAR OF ROAD CENTRELINE OR LANE LINE LINEMARKING TO ALLOW FOR THE BITUMEN EMULSION JOINT SEAL. REINSTATEMENT OF SURFACE ADJACENT TO THE KERB OR ROAD PAVEMENT EDGE TO EXTEND FULLY TO THE KERB LINE OR EDGE PAVEMENT.
5. A PART LANE RESURFACING MAY BE APPROVED WHERE THE FULL REINSTATEMENT IS ABLE TO BE COMPLETED BETWEEN THE INNER AND/OR OUTER EDGE AND CENTRE OF THE LANE.
6. THE VERTICAL DEVIATION FROM A 3m STRAIGHT EDGE PARALLEL TO THE CENTRE LINE OF THE EXISTING ROAD IS NOT TO EXCEED 5mm.
7. ASPHALT SURFACE REPAIRS ARE TO BE UNDERTAKEN WITHIN 24 HOURS UNLESS APPROVED OTHERWISE BY COUNCIL. FINAL ASPHALT LAYERS TO BE PLACED BY PAVING MACHINE.
8. WHERE STRUCTURAL ASPHALT IS USED TO REINSTATE EXISTING GRANULAR PAVEMENT, SUBSOIL DRAINAGE IS TO BE INSTALLED ON THE UPHILL SIDE OF THE TRENCH UNLESS APPROVED OTHERWISE BY COUNCIL.
9. FOR BACKFILL REQUIREMENTS FOR STORMWATER DRAINAGE PIPE REFER TO DS-030.
10. ALL DIMENSION ARE IN MILLIMETRES SHOWN OTHERWISE.



MANHOLE SETOUT POINT



FIELD INLET PIT SETOUT POINT

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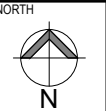


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DRAWING TITLE:
STORMWATER DRAINAGE NOTES & DETAILS

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C26-219		C202	A

GEOTECHNICAL RECOMMENDATIONS / BULK EARTHWORKS NOTES:

- TOPSOIL STRIPPED FROM SITE TO BE USED FOR FINAL TOPSOIL PRIOR TO IMPORT OF ADDITIONAL TOPSOIL.
 - EXCESS CUT MATERIAL TO BE SPREAD ON-SITE AS PER THE SUPERINTENDENTS INSTRUCTIONS
 - SOLID EARTHWORKS VOLUMES SHOWN. (NO BULKING FACTOR USED)
 - BULK EARTHWORKS ASSUMED ONLY. NO DETAILED DESIGN HAS BEEN UNDERTAKEN.
 - BULK EARTHWORKS LEVELS HAS NOT ALLOWED FOR STRUCTURAL DESIGN OF FOOTINGS, DEPRESSIONS, FALLS AND HYDRAULICS U.N.O. THESE ARE ADDITIONAL EXCAVATIONS AND SHALL BE DETERMINED ON SITE BY THE CONTRACTOR. ANY EXCESS MATERIAL REMOVED FROM SITE WILL REQUIRE TO BE REPLACED AS PER THE MINIMUM COMPACTION REQUIREMENTS
 - ALL EXCESS MATERIAL REMOVED AS DIRECTED BY CIVIL, STRUCTURAL OR GEOTECHNICAL ENGINEER HAS NOT BEEN INCLUDED IN THESE CALCULATIONS.
 - ALL ARCHITECTURAL FINISHED SURFACE LEVELS SUPERSEDE THOSE INDICATED ON THE BULK EARTHWORKS PLAN. THE CONTRACTOR SHALL CONFIRM THE FINAL PAD LEVEL REQUIRED TO SUIT THE STRUCTURAL DESIGN WITH THE STRUCTURAL DRAWINGS PRIOR TO COMMENCEMENT OF WORK.
 - REFER GEOTECHNICAL REPORT / ENGINEER FOR SUITABILITY OF MATERIAL WON FROM EXCAVATION AS BACKFILL
 - WHERE NATURAL LEVELS ARE CUT - DEEP TYNE EXPOSED SURFACE SOILS TO AN ADDITIONAL DEPTH OF 300mm, WITH THE ADDITION OF WATER, AS NECESSARY, TO ADJUST THE MOISTURE CONTENT TO + / - 2 % OF THE STANDARD OPTIMUM MOISTURE CONTENT. REFER TO GEOTECHNICAL REPORT FOR FURTHER TREATMENT OF SUB-GRADE MATERIALS
 - CONTRACTOR IS RESPONSIBLE TO VERIFY AND ESTABLISH THE QUANTITIES AS THE VOLUMES PROVIDED ARE ESTIMATES ONLY
 - IF RETAINING WALLS ARE TO BE DESIGNED BY CMT ENGINEERS, SOIL TESTING MUST BE CARRIED OUT BY CERTIFIED NATA SOIL TESTING COMPANY TO PROVIDE BEARING CAPACITY FOUND ON SITE.
 - IMPORTED FILL SHALL HAVE THE FOLLOWING PROPERTIES:
 - MAXIMUM STONE SIZE (mm) - 75
 - PASSING 19.0mm SIEVE (%) - 70-100
 - PASSING 0.075mm SIEVE (%) - 15-40
 - MINIMUM SOAKED CBR (%) - 5.0*
 - MAXIMUM SHRINK-SWELL INDEX - 15*
- * SAMPLES RE-MOULDED AT 100% STANDARD COMPACTION AT OPTIMUM MOISTURE CONTENT.

ALL VEHICLES EITHER EXPORTING OR IMPORTING FILL OR TOPSOIL MATERIAL TO/FROM THE SITE SHALL COVER ALL LOADS AT ALL TIMES

BULK EARTHWORKS APPROVAL

- APPROVAL IS REQUIRED BY ALL RELEVANT AUTHORITIES PRIOR TO THE COMMENCEMENT OF WORKS ON SITE.
- THE BULK EARTHWORKS PLANS AND ALL SUPPORTING INFORMATION, INCLUDING ALL EROSION AND SEDIMENT CONTROL PLANS, SHALL REMAIN ON SITE AT ALL TIMES.

EXISTING SERVICES

- EXACT LOCATION OF ALL SERVICES, SHALL BE LOCATED PRIOR TO THE COMMENCEMENT OF WORK. IT IS THE BUILDERS RESPONSIBILITY TO CONFIRM THE DEPTH AND LOCATION OF SERVICES, AND CMT ENGINEERS ACCEPTS NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE SERVICES SHOWN.

ADJOINING PROPERTY

- IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THE EFFECTS OF THE EARTHWORKS DO NOT HAVE AN IMPACT TO THE NEIGHBOURING PROPERTIES. SHOULD AN ISSUE ARISE ON SITE THE CONTRACTOR SHALL INFORM THE SUPERINTENDENT IMMEDIATELY.
- THE CONTRACTOR IS TO RECEIVE WRITTEN PERMISSION PRIOR TO ENTERING OR COMMENCING WORK OUTSIDE THE DEVELOPMENT SITE, AND SHALL RECEIVE PERMISSION FROM EASEMENT HOLDERS AND LOCAL AUTHORITY PRIOR TO WORK COMMENCING.

SOIL CONTAMINATION

- ANY SUSPECTED GROUND OR GROUND WATER CONTAMINATION SHALL BE INVESTIGATED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.
- IF CONTAMINATED SOILS ARE ENCOUNTERED ON SITE, A CONTAMINATED SOILS REPORT IS TO BE UNDERTAKEN BY A GEOTECHNICAL ENGINEER OUTLINING APPROVED TREATMENT, OR ACCEPTABLE DISPOSAL LOCATIONS FOR ALL MATERIAL REMOVED FROM SITE.
- FINAL APPROVAL FROM REGULATORY AUTHORITY MAY BE REQUIRED PRIOR TO DISTURBING IN-SITU MATERIAL.

CONSTRUCTION RECORDS

- ADEQUATE RECORDS SHALL BE KEPT THROUGHOUT CONSTRUCTION INCLUDING BUT NOT LIMITED TO:
 - LOCATION AND QUANTITY OF EXCESS CUT (DUMP SITE)
 - THE AREAS ON SITE OF ALL FILL
 - LEVELS OF STRIPPED SURFACE
 - LOCATION OF ANY VEGETATION REMOVED
 - LOCATION OF SITE CONTAMINATION / UNSUITABLE MATERIAL
 - LEVELS AT COMPLETION OF BULK EARTHWORKS WORK
 - DETAILS OF SUB-GRADE TEST ROLLING (PROOF ROLLING)
 - TYPES / SOURCE OF FILL MATERIAL
 - LOCATION, LEVEL AND RESULT OF EACH COMPACTION TEST
 - RECORD OF ALL ACTIONS TAKEN ON SITE

UNSUITABLE MATERIALS

- REFER TO GEOTECHNICAL ENGINEER, AS REQUIRED, FOR DETERMINATION OF SUITABILITY OF MATERIAL WON ON SITE, OR BORROW PIT TO BE USED AS FILL MATERIAL.
- ALL UNSUITABLE FILL SHALL BE EITHER REMOVED OR USED AS PER THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT.
- PRIOR TO ANY EARTHWORKS STRIP TOPSOIL CONTAINING ORGANIC MATTER FROM BUILDING + PAVEMENT AREAS TO AN APPROX. DEPTH OF 0.10m. SPOIL MATERIAL AS DIRECTED BY THE MANAGER, REMOVE RUBBLE, OVER SATURATED MATERIALS AND ALL ORGANIC MATTER.

TESTING / INSPECTIONS

- ALL TESTING OF EARTHWORKS SHALL BE DONE AT THE CONTRACTORS EXPENSE, UNLESS NOTED OTHERWISE.
- SHALL A SUB-GRADE OR PROOF ROLL INSPECTION FAIL, OR ADDITIONAL INSPECTIONS BE REQUIRED FOR ANY REASON OUTSIDE, THE CONTRACTOR WILL WEAR THE COSTS OF ANY SUBSEQUENT RE-INSPECTIONS, UNLESS NOTED OTHERWISE.

EARTHWORKS SEQUENCE

- INSTALL ALL VEGETATION PROTECTION, EROSION AND SEDIMENT CONTROL, AND SITE SPECIFIC MEASURES PRIOR TO THE COMMENCEMENT OF ANY WORK
- STRIP ALL TOPSOIL / ORGANIC MATERIAL FROM CONSTRUCTION AREA AND REMOVE FROM SITE OR STOCKPILE AS DIRECTED BY SUPERINTENDENT.
- EXCAVATE MATERIAL AS INDICATED ON THE BULK EARTHWORKS PLAN
- PRIOR TO PLACING FILL, PROOF ROLL EXPOSED SUB-GRADE WITH AN 8 TONNE (MINI) ROLLER OR WATER TRUCK TO DETECT THEN REMOVE SOFT SPOTS, REPLACE UNSUITABLE MATERIAL WITH SUITABLE GRANULAR MATERIAL AND COMPACT TO THE MINIMUM COMPACTION REQUIREMENTS LISTED.

(TO BE UNDERTAKEN IN THE PRESENCE OF A CIVIL / GEOTECHNICAL ENGINEER)

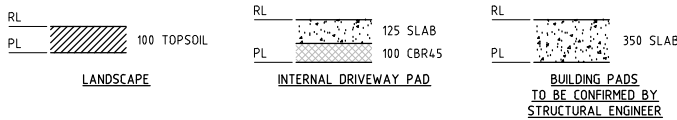
- GEOTECHNICAL ENGINEER TO UNDERTAKE SUB-GRADE COMPACTION TESTING TO LEVEL 1 AS PER AS 3798 (2007) AND PROVIDE CBR VALUES FOR ADJUSTMENT TO PAVEMENT DESIGN
- FILLING IS TO BE PLACED AND COMPACTED IN MAXIMUM 150mm LAYERS AND TO THE MINIMUM COMPACTION REQUIREMENTS LISTED.
- AFTER ALL BULK EARTHWORKS HAS OCCURED, PROOF ROLL THE FINISHED PAD LEVEL WITH AN 8 TONNE (MINI) ROLLER OR WATER TRUCK TO DETECT THEN REMOVE SOFT SPOTS, REPLACE UNSUITABLE MATERIAL WITH SUITABLE GRANULAR MATERIAL AND COMPACT TO THE MINIMUM COMPACTION REQUIREMENTS LISTED.

TYPICAL EARTHWORKS EMBANKMENT NOTES:

- IT IS THE BUILDERS RESPONSIBILITY TO ENSURE THAT THE SITE WORKS DO NOT COMPROMISE / UNDERMINE OR PLACE ADDITIONAL SURCHARGE ON ANY EXISTING STRUCTURES.
- BATTER ANGLES MUST COMPLY WITH LOCAL AUTHORITY REQUIREMENTS AND ARE TO CONFORM TO THE ABOVE DIAGRAM.
- ALL BATTERS SHALL BE PROTECTED FROM EROSION, AND ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES IN PLACE PRIOR TO THE COMMENCEMENT OF WORK.
- SHOULD THE ABOVE CONDITIONS NOT BE ACHIEVED CMT ENGINEERS MUST BE CONTACTED PRIOR TO ANY SITE WORKS BEING UNDERTAKEN

PAD AND FINISHED LEVEL NOTES:

- ACTUAL FINISHED LEVELS SHOWN ON THIS PLAN ARE FOR THE CONTRACTOR'S GUIDANCE ONLY. ACTUAL FINISHED LEVELS SHALL BE SET-OUT IN ACCORDANCE WITH ARCHITECTURAL PLANS (REPORT ANY DISCREPANCIES TO CMT ENGINEERS IMMEDIATELY)
- THE PAD LEVEL SHOWN WAS CALCULATED USING THE FOLLOWING PAVEMENT DESIGN, REFER STRUCTURAL DRAWINGS FOR CONFIRMATION OF LEVELS.



MINIMUM COMPACTION REQUIREMENTS

	APPLICATION	MINIMUM RELATIVE COMPACTION %	
		COHESIVE SOILS	COHESIONLESS SOILS
1	RESIDENTIAL - ALLOTMENT FILL, BUILDING PADS (MAX20kPa SLAB, Max 100kPa FOOTINGS)	95	70
2	COMMERCIAL - ALLOTMENT FILL, BUILDING PADS (and Residential > Max Bearing from above)	98	75
3	FILL TO SUPPORT PAVEMENTS GENERAL FILL SUBGRADE (depth to 0.3m below box)	95 98	70 75

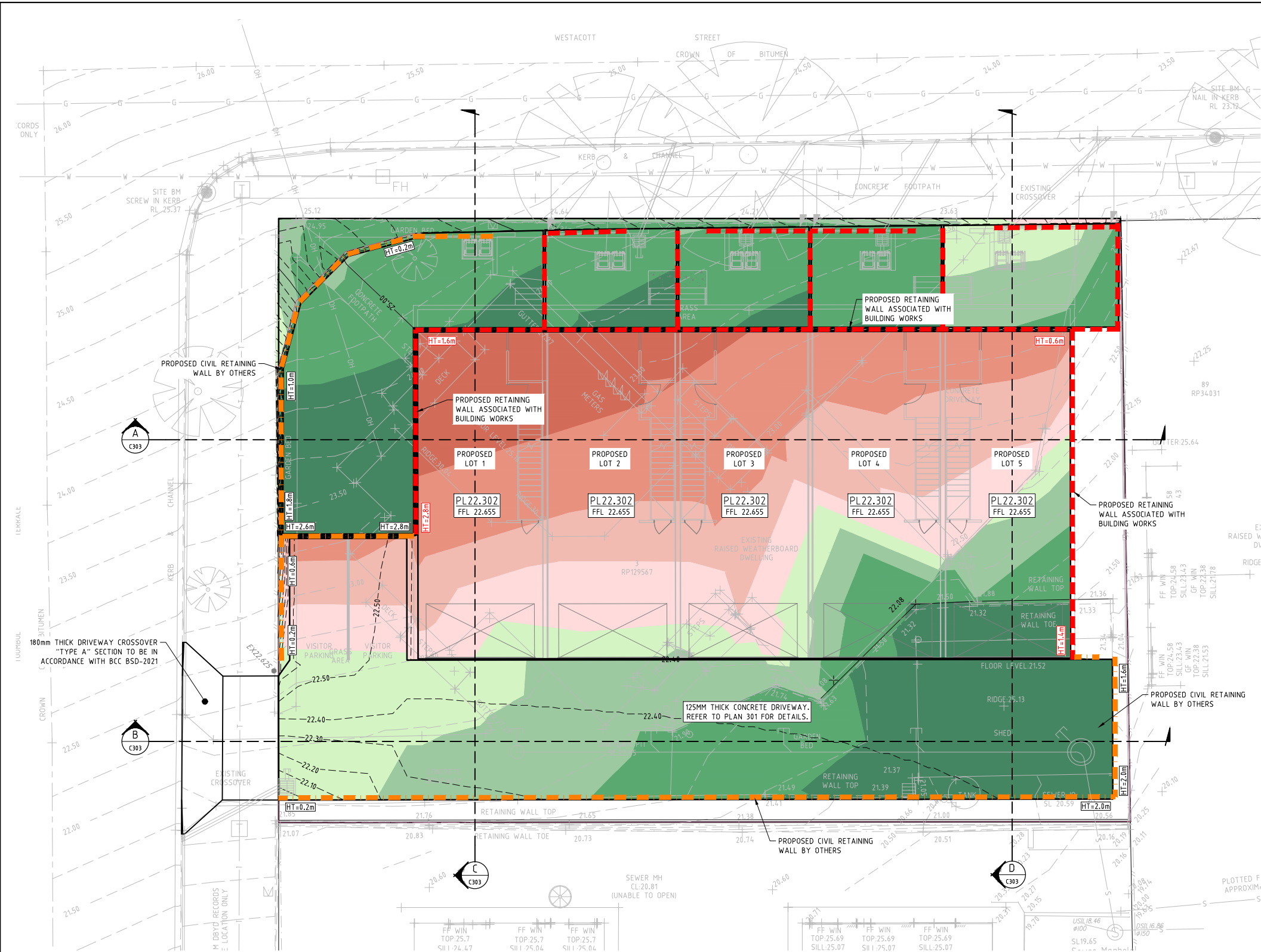
MINIMUM COMPACTION NOTES

- REFER TABLE 5.1 AS 3798-2007 FOR NOTES RELATING TO MINIMUM COMPACTION TABLE
- REFER TO GEOTECHNICAL REPORT FOR THE REQUIRED TREATMENT SPECIFIC TO THIS SITE

TOPSOIL

- ALL TOPSOIL STRIPPING MUST BE VERIFIED BY THE CIVIL ENGINEER IN CONJUNCTION WITH THE GEOTECHNICAL ENGINEER IF THE DEPTH OF THE TOPSOIL SPECIFIED IS GREATER THAN THE ALLOWABLE STRIPPING.
- AFTER STRIPPING AN AS CONSTRUCTED SURVEY OF THE STRIPPED SITE SURFACE MUST BE CONDUCTED BY AN INDEPENDENT LICENSED SURVEYOR NOMINATED BY THE ENGINEER BEFORE COMMENCEMENT OF CUT AND/OR FILL ON THE SITE.
- TOPSOIL IN LOOSE FORM STOCKPILE AFTER STRIPPING IS ABLE TO BE USED AS A METHOD OF MEASUREMENT DUE TO UNKNOWN BULKING FACTORS.

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LEGEND	
PL 30.300	DENOTES PROPOSED PLATFORM LEVEL
—	PAD OUTLINE
● 30.300	BULK EARTHWORKS LEVEL
+12.75	EXISTING SURFACE LEVEL
—	CIVIL RETAINING WALL (BY OTHERS)
—	RETAINING WALL ASSOCIATED WITH BUILDING WORKS
—58.50—	EARTHWORKS CONTOURS
—	TOP OF BATTER
—	TOE OF BATTER
PL	PAD LEVEL
EL	EXISTING LEVEL (PRIOR TO STRIP)

CUT & FILL LEGEND	
EXCAVATION	FILLING
0.00m - 0.25m	0.00m - 0.25m
0.25m - 0.50m	0.25m - 0.50m
0.50m - 1.00m	0.50m - 1.00m
1.00m - 2.00m	1.00m - 2.00m
>2.00m	>2.00m

NOTES:

- CUT AND FILL IS PROVIDED FOR GUIDANCE ONLY AND DENOTES LEVEL DIFFERENCE BETWEEN EARTHWORKS SURFACE AND EXISTING SURFACE
- AREAS NOT REQUIRING EARTHWORKS ARE TO REMAIN UNDISTURBED.
- CUT/FILL IS TO BULK EARTHWORKS SURFACE.
- FINAL EXTENTS OF CUT/FILL ARE TO BE DETERMINED BY THE CONTRACTOR ON SITE IN CONJUNCTION WITH THE EARTHWORKS DESIGN.

LEVEL 1 COMPACTION
ALL FILLING ON SITE TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE
(NOTE TYPE 2 TESTING MAY ONLY BE USED FOR INDIVIDUAL RESIDENTIAL LOTS ONLY)

CONTRACTOR TO CONFIRM SOIL TYPE AND ACCEPTABLE TEMPORARY BATTER ANGLE WITH GEOTECHNICAL ENGINEER PRIOR TO UNDERTAKING EARTHWORKS

CONTRACTOR TO CONFIRM LOCATION OF ALL SERVICES TRAVERSING OR ADJACENT TO THE DEVELOPMENT SITE PRIOR TO UNDERTAKING WORKS.

REFER STRUCTURAL ENGINEER FOR DETAILS OF TEMPORARY SOIL RETENTION METHOD

REFER STRUCTURAL DRAWINGS PREPARED BY STRUCTURAL ENGINEER FOR FOOTING SLAB AND WALL DETAILS.

EARTHWORKS TABLE

BUILDING	CUT (m³)	FILL (m³)	NETT (m³)
50mm CLEARING & 50mm GRUBBING	-101.400		-101.400
SITE BULK EARTHWORKS	-202.331	414.990	212.702 (IMPORT)

NOTE:
EARTHWORKS VOLUMES ARE TAKEN FROM THE STRIPPED SURFACE LEVEL.
ALL CALCULATIONS ARE APPROXIMATIONS ONLY AND ARE PROVIDED FOR ROUGH ESTIMATION PURPOSES. CMT ENGINEERS TAKES NO RESPONSIBILITY FOR ANY INCORRECT BULK EARTHWORKS CALCULATIONS.
CONTRACTOR IS TO CONFIRM VOLUMES PRIOR TO TENDER OR COMMENCEMENT OF WORKS ON SITE.

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ISSUE	DESCRIPTION	DATE	DRAWN	AUTH.
A	PRELIMINARY ISSUE	14.05.2026	KST	CMT

ISSUE STAMP

PRELIMINARY ISSUE

SURVEY INFORMATION

PM17515 RL39.187

SURVEYOR

ONF SURVEYORS

RP DESCRIPTION

LOT 3 RP129567

NORTH

CITY COUNCIL APPROVAL NUMBER:

-

SCALE BAR

0 2 4 6m

SCALE 1:100 @ A1

FILE NAME

8315_D1_A

LAND SIZE

0.1014 HA

CLIENT:

HERRIGAN ENTERPRISES
PTY LTD

PROJECT TITLE:

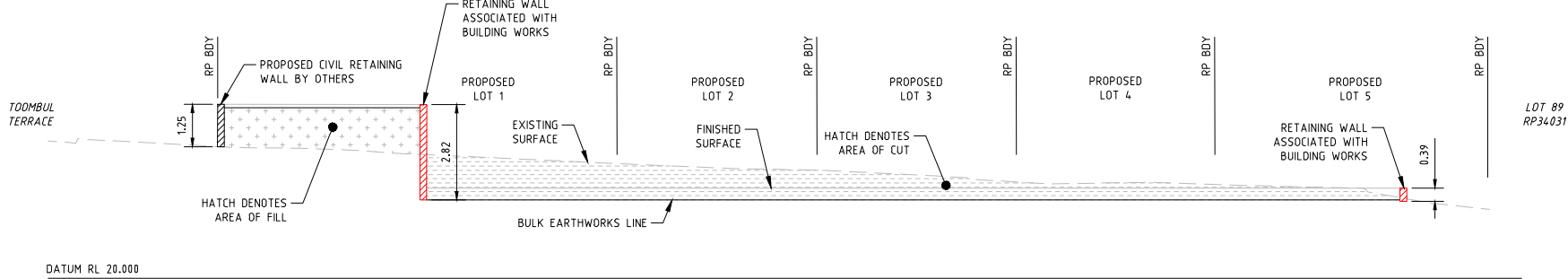
PROPOSED RESIDENTIAL DEVELOPMENT AT 54
TOOMBUL TCE NUNDAH QLD 4012

DRAWING TITLE:

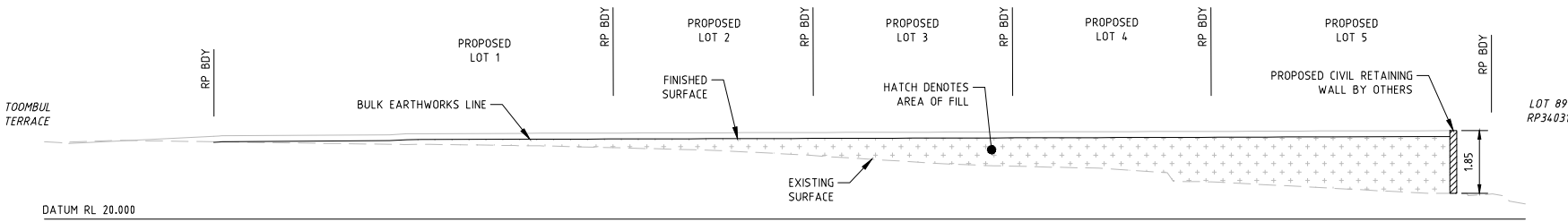
BULK EARTHWORKS LAYOUT PLAN

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KST		CMT	
DRAWN:	DATE:	DWG CHECK:	DATE:
KST		BM	
AUTHORISED FOR ISSUE		ORIG. SIZE	
CHING MENG TAN		A1	
PROJECT NUMBER / SHEET		ISSUE	
C26-219		A	
C302			

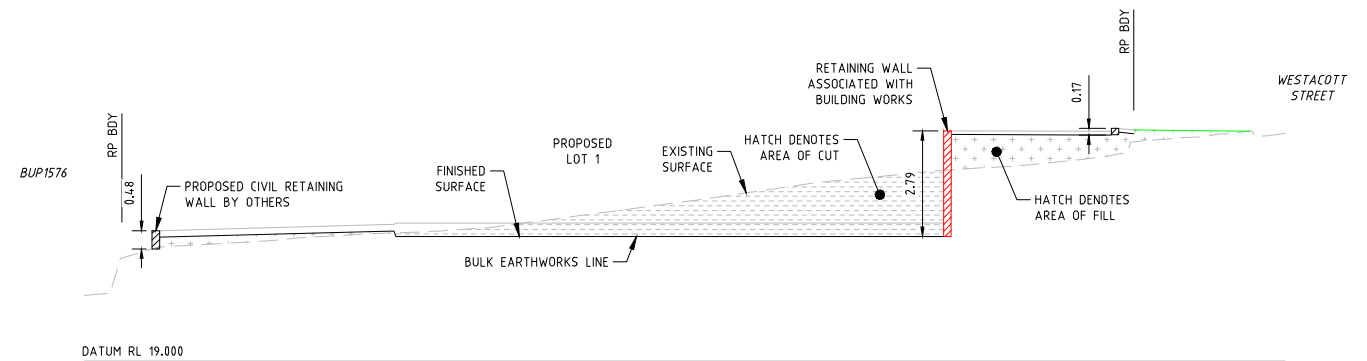
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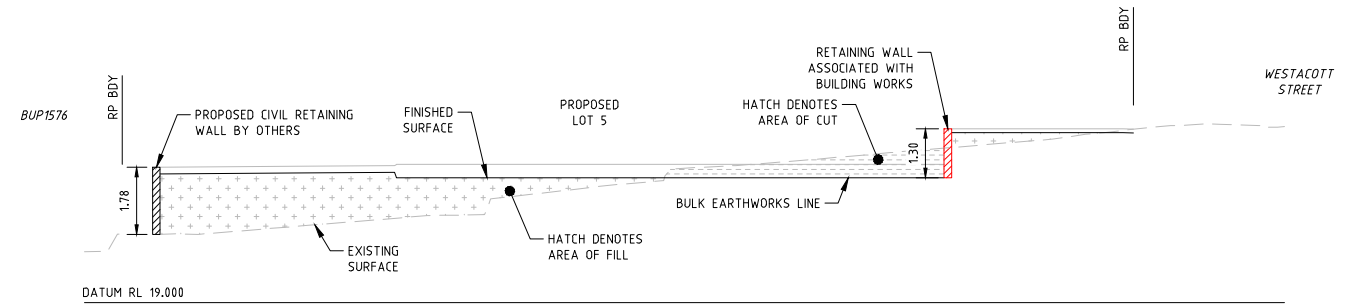
SECTION A
1:100



SECTION B
1:100



SECTION C
1:100



SECTION D
1:100

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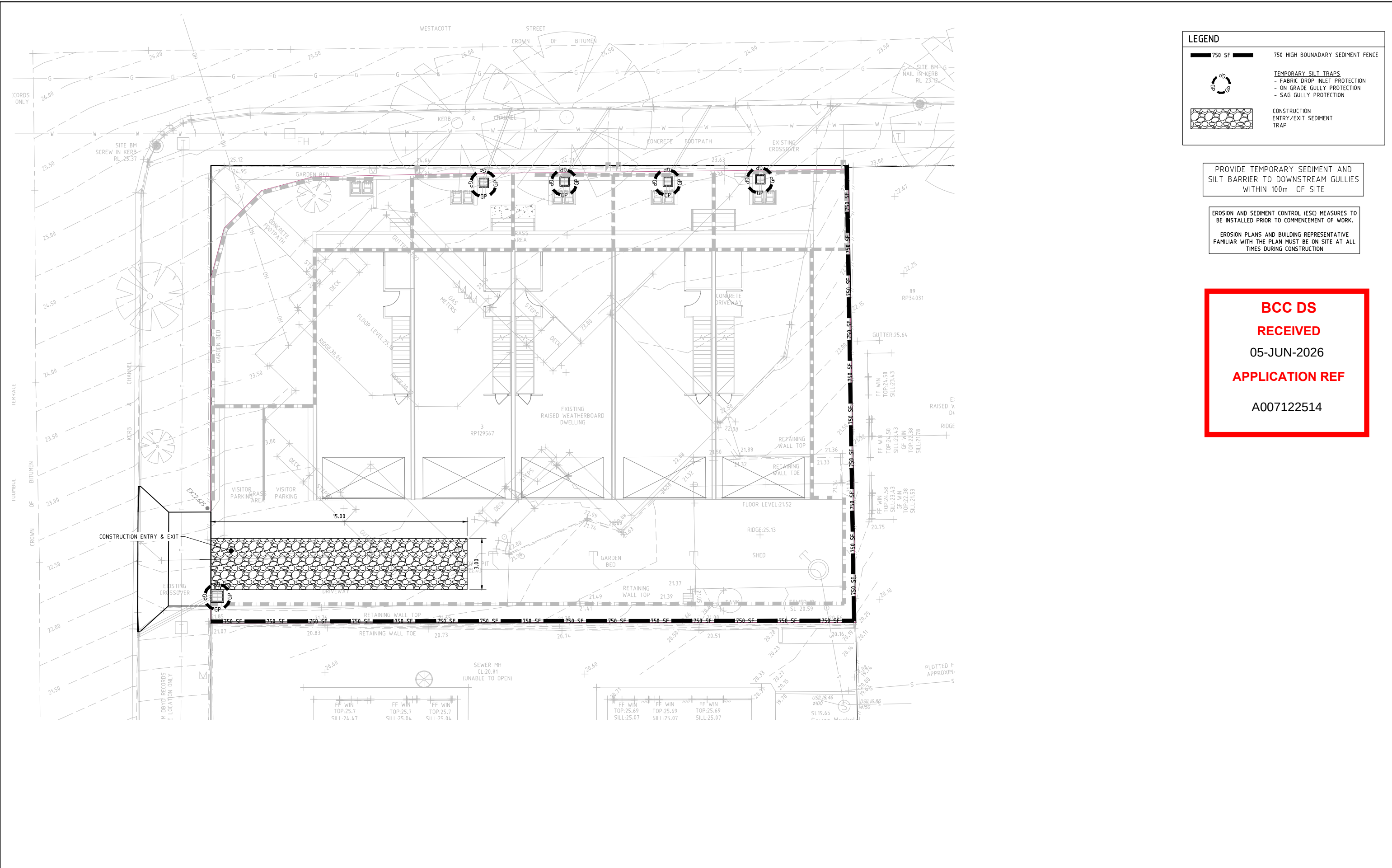
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CLIENT:
HERRIGAN ENTERPRISES
PTY LTD

PROJECT TITLE:
PROPOSED RESIDENTIAL DEVELOPMENT AT 54
TOOMBUL TCE NUNDAH QLD 4012

DRAWING TITLE:
BULK EARTHWORKS SECTIONS

DESIGN: KST	DATE: CMT	DATE:
DRAWN: KST	DATE: BM	DATE:
AUTHORISED FOR ISSUE		ORIG. SIZE
CHING MENG TAN		A1
PROJECT NUMBER / SHEET		ISSUE
C26-219		A



LEGEND

750 SF

750 HIGH BOUNDARY SEDIMENT FENCE

TEMPORARY SILT TRAPS

- FABRIC DROP INLET PROTECTION

- ON GRADE GULLY PROTECTION

- SAG GULLY PROTECTION

CONSTRUCTION ENTRY/EXIT SEDIMENT TRAP

PROVIDE TEMPORARY SEDIMENT AND SILT BARRIER TO DOWNSTREAM GULLIES WITHIN 100m OF SITE

EROSION AND SEDIMENT CONTROL (ESC) MEASURES TO BE INSTALLED PRIOR TO COMMENCEMENT OF WORK.

EROSION PLANS AND BUILDING REPRESENTATIVE FAMILIAR WITH THE PLAN MUST BE ON SITE AT ALL TIMES DURING CONSTRUCTION

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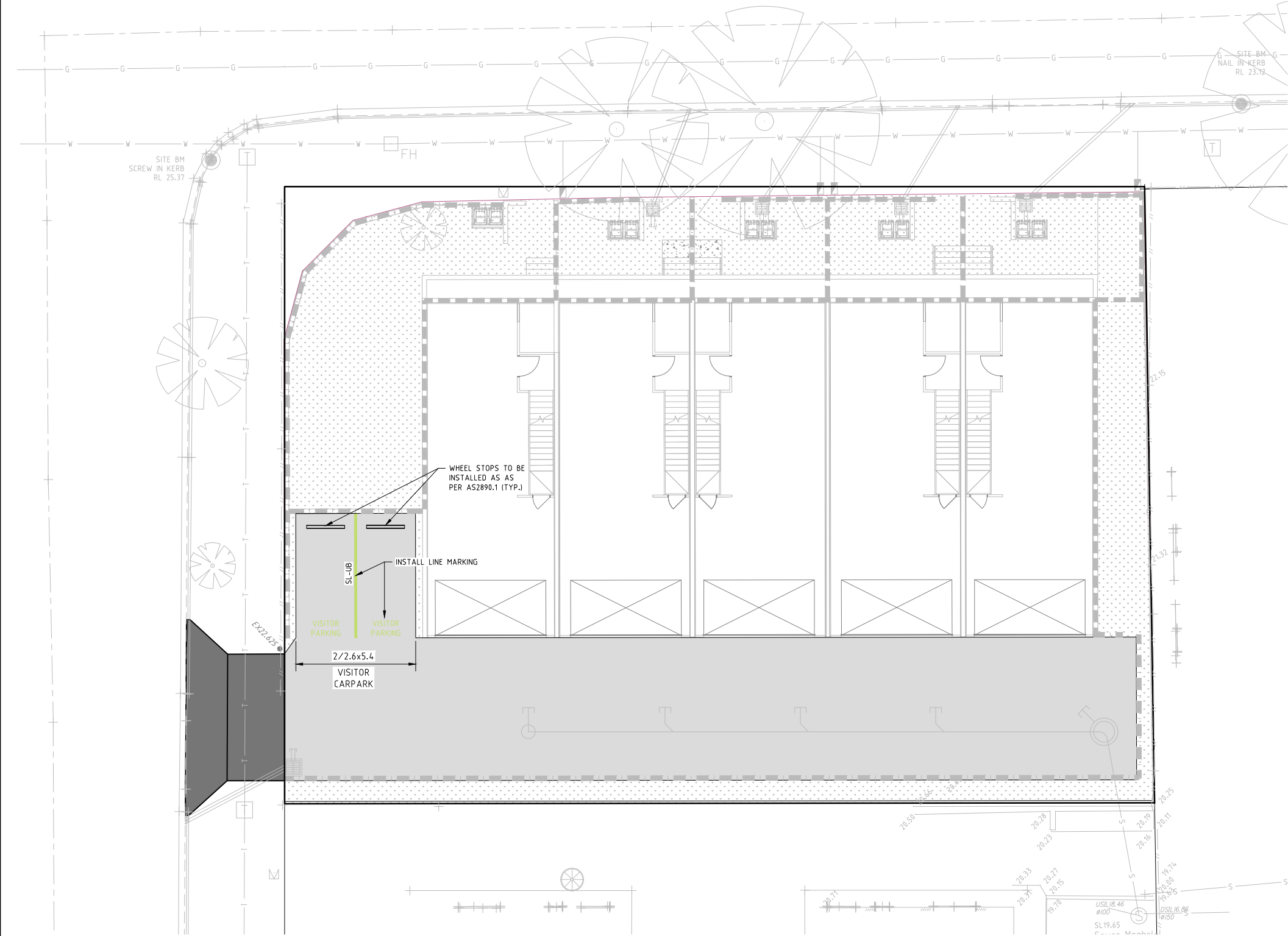
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LINEMARKING LEGEND

PAVEMENT MARKING	LENGTH(m)	GAP(m)	WIDTH(mm)
UNBROKEN LANE / EDGE LINE (ULL)	VARIES REFER PLAN	-	100
CHEVRON EXISTING - PROPOSED	CHEVRON MARKING AS PER AS 2890.6 SECTION 3		

ALL LINE MARKING ON CONCRETE
CAR PARK SURFACING TO BE
PAINTED YELLOW IN COLOUR

LANE LINES

- ALL LANE LINES SHALL BE MARKED AS FOLLOWS:
- LANE LINES SHALL BE AS SHOWN ON THE PLAN
- LANE LINES SHALL BE APPLIED TO ROAD SURFACE USING WHITE THERMOPLASTIC LINE MARKING PAINT. PAINT SHALL BE IN ACCORDANCE WITH AS4049.2 - APPENDIX F
- ALL LANE LINES SHALL BE SETOUT AS PER THE QUEENSLAND GOVERNMENT DEPARTMENT OF MAIN ROADS - 'MANUAL OF UNIFORM TRAFFIC DEVICES'

MESSAGES ON PAVEMENT

- ALL WORDINGS APPLIED TO ROAD SURFACE SHALL BE AS FOLLOWS:
- ALL WORDINGS SHALL BE AS SHOWN ON THE PLAN.
- ALL WORDINGS SHALL BE APPLIED TO THE ROAD SURFACE USING WHITE REFLECTIVE LINE MARKING PAINT
- PAINT SHALL BE IN ACCORDANCE WITH AS4049.1
- ALL WORDING SETOUT AND FORMATION SHALL BE AS PER THE - QUEENSLAND TRANSPORTS - MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PART 2 SECTION 4.

REMOVAL OF EXISTING LINEMARKING

- ALL REDUNDANT LINEMARKING TO BE REMOVED SHALL BE GROUND OFF IN ACCORDANCE WITH QUEENSLAND TRANSPORTS REQUIREMENTS.

SIGN POST INSTALLATION

- ALL SIGNS SHALL BE LOCATED AS INDICATED ON THE PLAN AND SHALL BE INSTALLED IN ACCORDANCE WITH QUEENSLAND GOVERNMENT DEPARTMENT OF MAIN ROADS - MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - PART 2

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DRAWING TITLE:
SIGN & LINE MARKING PLAN

DESIGN:
KST

DRAWN:
KST

AUTHORISED FOR ISSUE

DATE:
CMT

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ORIG. SIZE:
A1

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CHING MENG TAN
PROJECT NUMBER / SHEET
C26-219

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DWG CHECK:
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