32A,34,36,38 NAREEN PARADE NORTH NARABEEN

GENERAL

- THE DRAWINGS ARE A DIAGRAMMATIC REPRESENTATION ONLY OF THE WORK TO BE CARRIED OUT AND DIMENSIONS SHALL NOT BE OBTAINED BY
- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL CONSTRUCTION SPECIFICATIONS AND ASSOCIATED DEVELOPMENT CONTROL PLAN. ROADS AND MARITIME THEN AUSTRALIAN STANDARDS TO BE USED IN OTHER INSTANCES.
- ALL LOCATION, ORIENTATION AND LEVELS SHALL BE VERIFIED ON SITE BEFORE COMMENCING ANY WORK. ANY DISCREPANCIES IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE REFERRED TO THE PRINCIPAL FOR CLARIFICATION BEFORE PROCEEDING. NATURAL SURFACE LEVELS ARE INDICATIVE ONLY.
- PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR SHALL SATISFY HIMSELF OF THE CORRECT LOCATION OF EXISTING SERVICES WHETHER INDICATED OR NOT ON THE DRAWINGS.
- ADJUST ALL UTILITY SERVICE COVERS TO SUIT NEW GRADES & LEVELS, FLUSH WITH SURROUNDING AREA.
- EXISTING STATE SURVEY MARKS AFFECTED BY THE WORKS ARE TO BE RECOVERED IN ACCORDANCE WITH SURVEYOR GENERAL'S DIRECTION No. 11 - "PRESERVATION OF SURVEY INFRASTRUCTURE".

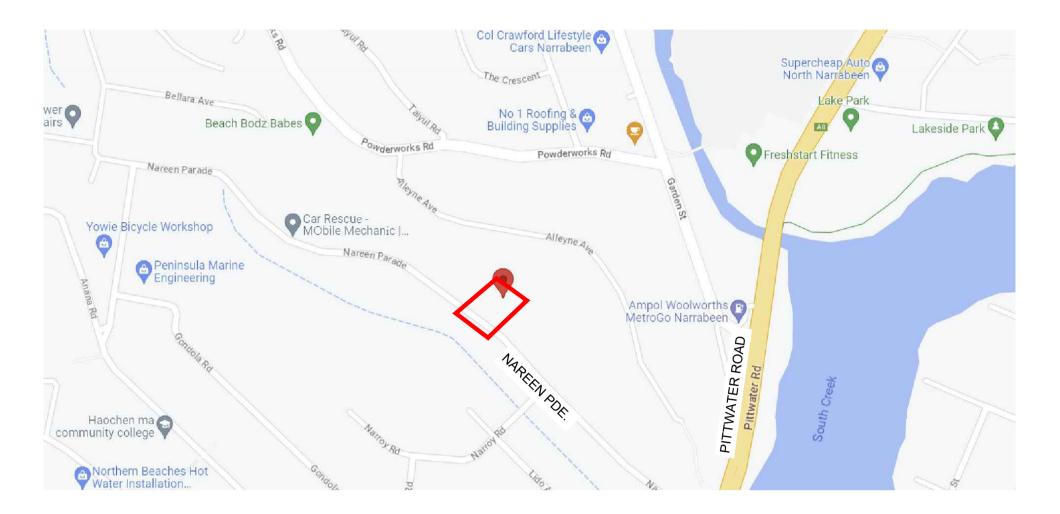
SITE MANAGEMENT

- PROVIDE BARRIERS AROUND ALL CONSTRUCTION WORKS WITHIN THE FOOTPATH AREA TO PROVIDE SAFE ACCESS FOR PEDESTRIANS.
- CONCRETE PUMPS AND CRANES ARE TO OPERATE FROM WITHIN THE DESIGNATED WORK AREA AND ARE NOT TO OPERATE FROM THE PUBLIC ROADWAY UNLESS SPECIFIC COUNCIL PERMISSION IS OBTAINED.
- DELIVERY VEHICLES MUST NOT STAND WITHIN THE PUBLIC ROADWAY FOR MORE THAN 20 MINUTES AT A TIME.
- TOILET FACILITIES MUST BE EITHER FLUSHING TYPE OR APPROVED PORTABLE CHEMICAL CLOSET. CHEMICAL CLOSETS ARE TO BE MAINTAINED AND SERVICES ON A REGULAR BASIS SO THAT OFFENSIVE ODOUR IS NOT EMITTED.
- TRAFFIC MANAGEMENT MEASURES ARE REQUIRED TO BE IMPLEMENTED AND MAINTAINED DURING CONSTRUCTION IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE RMS TRAFFIC CONTROL AT WORKSITES MANUAL AND AS1742, MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- PEDESTRIAN CONTROL MEASURES ARE REQUIRED TO BE IMPLEMENTED AND MAINTAINED DURING CONSTRUCTION IN ACCORDANCE WITH AS1742, MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL WORK CARRIED OUT AT THE SITE IS IN ACCORDANCE WITH COUNCIL'S WORK HEALTH & SAFETY POLICY.
- DO NOT STORE OR PLACE MATERIALS INSIDE THE DRIP LINE OF ANY TREE. CONSTRUCTION ACTIVITIES, VEHICLE PARKING OR MAINTENANCE, MATERIALS STORAGE OR LOCATING OF CONTAINERS AND SITE SHEDS MUST NOT OCCUR WITHIN THE DRIP LINE OF ANY TREES OR WITHIN 5M OF TREES WHERE THE DRIP LINE RADIUS IS LESS THAN 5M.
- THE CONTRACTOR SHALL EFFECT TEMPORARY DRAINAGE MEASURES TO AVOID LOCALISED PONDING.

EARTHWORKS:

- EARTHWORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE DRAWINGS AND GEOTECHNICAL ENGINEERS RECOMMENDATIONS. THE DESIGN AS DETAILED ON THESE DRAWINGS ASSUMES A PROPERLY PREPARED UNIFORM AND STABLE SUBGRADE.
- THE DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ANY GEOTECHNICAL REPORT PREPARED FOR THE WORKS.
- STRIP OFF ALL VEGETATION, RUBBISH AND TOPSOIL CONTAINING ORGANIC OR ROOT MATTER FROM THE AREA OF THE WORKS AND REMOVE FROM SITE/STOCKPILE FOR RE-USE.
- PRIOR TO ANY FILLING, THE EXPOSED SUBGRADE SHALL BE PROOF ROLLED WITH A MINIMUM OF 10 PASSES OF A 5 TONNE (MIN) DEAD WEIGHT VIBRATING ROLLER IN THE PRESENCE OF THE SUPERINTENDENT OR GEOTECHNICAL ENGINEER AND ANY SOFT OR YIELDING MATERIALS REMOVED AND REPLACED WITH APPROVED FILLING COMPACTED AS HEREAFTER SPECIFIED.
- FILL SHALL BE SOUND WELL GRADED MATERIAL WITH A HIGH GRANULAR CONTENT AND SHALL BE THE BEST OF EXCAVATED MATERIALS FROM THE SITE, OR APPROVED SOUND IMPORTED MATERIAL FREE OF RUBBISH, PLASTIC CLAY OR LARGE PIECES THAT WOULD PRECLUDE COMPACTION.
- FILL SHALL BE SPREAD IN LAYERS NOT EXCEEDING 200MM AND COMPACTED USING SUITABLE MECHANICAL EQUIPMENT AT OPTIMUM MOISTURE CONTENT ±2 % TO NOT LESS THAN 98% MAXIMUM STANDARD DRY DENSITY (MSDD) IN ACCORDANCE WITH AS1289 - E11 UNLESS OTHERWISE NOTED.
- FINISH FILLING LEVELS TO SUIT CONSTRUCTION OVER, ALLOWING FOR MIN 75MM OF BASE COURSE (DGB20) COMPACTED TO 98% MAXIMUM MODIFIED DRY DENSITY (MMDD) WHERE NOTED ON DRAWINGS.
- DENSITY TESTING OF FILLING (AND BASE COURSE WHERE APPLICABLE) SHALL BE CARRIED OUT AT THE RATE OF 1 TEST PER 200 SQUARE METRES EACH LAYER (MINIMUM 2 TESTS). TESTING SHALL BE BY A NATA REGISTERED LABORATORY AND SHALL BE ALLOWED FOR BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROGRAM AND UNDERTAKE THE EARTHWORKS OPERATIONS SUCH THAT WORKING AREAS ARE ADEQUATELY DRAINED DURING CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM FAILURE TO COMPLY WITH THESE REQUIREMENTS SHALL BE RECTIFIED AT THE CONTRACTORS EXPENSE.

DRIVEWAY REMEDIATION AND DRAINAGE WORKS



OVERALL SITE PLAN

N.T.S.

STORMWATER DRAINAGE

- STORMWATER DRAINAGE SHALL BE GENERALLY IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARDS AND COUNCIL'S SPECIFICATION.
- PIPES OF 225mm DIA. AND UNDER SHALL BE UPVC. PIPES OF 300mm DIA. AND
- LARGER SHALL BE FRC OR CONCRETE CLASS 2 RUBBER RING JOINTED UNO. ALL FRC OR RCP STORMWATER PIPES WITHIN ROAD RESERVE AREAS TO BE
- 4. PIPES SHALL GENERALLY BE LAID AT THE GRADES INDICATED ON THE DRAWINGS.
- MINIMUM COVER TO PIPES 300mm DIA. AND OVER GENERALLY SHALL BE 600mm IN CARPARK & ROADWAY AREAS UNO.
- PIPES UP TO 150mm DIA SHALL BE LAID AT 1.0% MIN. GRADE U.N.O. PIPES 225mm DIA AND OVER SHALL BE LAID AT 0.5% MIN. GRADE U.N.O.
- 7. BACKFILL TRENCHES WITH APPROVED FILL COMPACTED IN 200MM LAYERS TO
- 98% OF STANDARD DENSITY ANY PIPES OVER 16% GRADE SHALL HAVE CONCRETE BULKHEADS AT ALL JOINTS
- PITS SHALL BE AS DETAILED WITH METAL GRATES AT LEVELS INDICATED. ALL
- PITS DEEPER THAN 1000mm TO HAVE CLIMB IRONS. 10. INSTALL TEMPORARY SEDIMENT BARRIERS TO INLET PITS, TO COUNCIL'S
- STANDARDS UNTIL SURROUNDING AREAS ARE PAVED OR GRASSED.
- 11. PIT LOCATIONS AND LEVELS MAY BE VARIED TO SUIT SITE CONDITIONS AFTER CONSULTING COUNCIL'S REPRESENTATIVE.
- 12. HAND-EXCAVATE STORMWATER PIPES IN VICINITY OF TREE ROOTS.
- 13. TRENCHING AND BEDDING DETAILS TO BE IN ACCORDANCE WITH AS3500 TO HS2 DETAIL UNLESS OTHERWISE NOTED.

GRASSING

FERTILISER, AT RECOMMENDED RATES.

- 1. ALL DAMAGED EXISTING TURF AREAS ARE TO BE REMOVED. EXCAVATE OR FILL AREAS TO BE TURFED AS SPECIFIED TO 100mm BELOW FINISHED SURFACE LEVELS. BREAK UP AND CULTIVATE SUBGRADE TO A MINIMUM DEPTH OF 150mm. BACKFILL AND CONSOLIDATE WITH MINIMUM 50mm DEPTH OF TURF UNDERLAY AS SUPPLIED BY AUSTRALIAN NATIVE LANDSCAPES OR APPROVED
- 2. LIGHTLY RAKE TO REMOVE ANY MOUNDS OR TROUGHS TO ALLOW LAWN TO FINISH IN A CONTINUAL GRADE BETWEEN CONTAINING EDGES. SURFACE OF SOIL TO BE MOISTENED LIGHTLY PRIOR TO INSTALLING TURF.
- 3. NEW TURFED AREAS SHALL BE TURFED USING CERTIFIED SPECIES TO MATCH EXISTING. 4. LAY TURF IN STRETCHER BOND PATTERN WITH STAGGERED AND CLOSELY BUTTED JOINTS.
- LIGHTLY TAMP TO AN EVEN SURFACE IMMEDIATELY AFTER LAYING. DO NOT USE A ROLLER. APPLY A LAYER OF TOP DRESSING BETWEEN THE STRIPS OF TURF, WATER IN THOROUGHLY AND FINISH WITH AN EVEN SURFACE. 5. WATER AND MAINTAIN SPECIFICALLY TO THE ESTABLISHMENT GUIDELINES OF THE SUPPLIER.

ALL NEW AND EXISTING TURF AREAS SHALL RECEIVE AN APPLICATION OF LAWN STARTER

EROSION AND SEDIMENT CONTROL . GENERAL MEASURES

- SOIL EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION SHALL CONFORM WITH GUIDELINES IN ACCORDANCE WITH "MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION - VOLUME 1, LANDCOM 2004" AND COUNCIL'S POLICY
- PERIMETER CONTROL MEASURES SHALL BE PLACED PRIOR TO OR IN CONJUNCTION WITH THE FIRST PHASE OF THE EARTHWORKS. THESE MEASURES SHALL BE APPLIED TO PROTECT ADJOINING PROPERTIES FROM EROSION AND SILT DAMAGE.

EARTH STOCKPILES SHALL BE CONFINED TO ONE CENTRAL AREA WHERE POSSIBLE.

- ALL STOCKPILES OF EXCAVATED OR CONSTRUCTION SOILS MUST HAVE A SILT FENCE ERECTED IMMEDIATELY DOWNHILL FOR THE FULL EXTENT OF THE STOCKPILE. WHERE SITE REGRADING OR FILLING IS BEING UNDERTAKEN PROVISION SHALL BE MADE TO ENSURE THAT NO WATER IS PONDED IN ANY LOT. ALL AREAS NOT SUBJECT TO CONSTRUCTION WORKS SHALL BE RETAINED FREE
- FROM DISTURBANCE OR DAMAGE DURING THE CURRENCY OF THE WORK. SHOULD THESE AREAS BECOME DISTURBED OR DAMAGED THEY SHALL BE REINSTATED AS DIRECTED BY THE SUPERINTENDENT.

2. SEDIMENT CONTROL DEVICES (S.C.D.) THESE DEVICES SHALL BE CONSTRUCTED AT INLETS TO STORMWATER SYSTEMS TO

TRAP THE SEDIMENT IN RUN-OFF.

3. STABILISATION OF DISTURBED AREAS STABILISATION OF DISTURBED AREAS SHALL BE IN ACCORDANCE WITH THE

- SPECIFICATIONS INDICATED IN GENERAL NOTES ABOVE. THE FOLLOWING SHALL BE APPLIED FOR THE CONTROL OF EROSION AND
- a. STABILISATION OF DENUDED AREAS SHALL COMMENCE AS SOON AS
- POSSIBLE AFTER THE AREAS HAVE BEEN DISTURBED.
- b. STABILISATION OF ALL CUT AND FILL SLOPES SHALL BE COMMENCED AS SOON AS PRACTICABLE AFTER COMPLETION OF FORMATION.
- c. ALL STABILISATION MEASURES SHALL BE TAKEN PRIOR TO THE END OF THE MAINTENANCE PERIOD.

4. MAINTENANCE

- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE MAINTAINED IN A SATISFACTORY WORKING ORDER THROUGHOUT THE CONTRACT, MAINTENANCE AND DEFECTS LIABILITY PERIODS OR UNTIL SUCH EARLIER TIME AS THE AREA HAS BEEN STABILISED AND COUNCIL'S ENGINEER DIRECTS THAT THE DEVICE BE REMOVED.
- ALL DEVICES SHALL BE INSPECTED AFTER EACH STORM FOR STRUCTURAL DAMAGE OR CLOGGING BY SILT AND OTHER DEBRIS AND MAKE PROMPT REPAIRS OR REPLACEMENT.

- CARRY OUT ALL DEMOLITION WORK IN ACCORDANCE WITH AS 2601
- UNTIL PERMANENT SUPPORT IS PROVIDED. PROVIDE TEMPORARY SUPPORT FOR SECTIONS OF EXISTING STRUCTURES WHICH ARE TO BE ALTERED AND WHICH NORMALLY RELY FOR SUPPORT ON WORK TO BE DEMOLISHED.
- SUPPORT EXCAVATIONS FOR DEMOLITION OF UNDERGROUND SERVICES.
- PROVIDE SUPPORT TO ADJACENT STRUCTURES WHERE NECESSARY, SUFFICIENT TO PREVENT DAMAGE RESULTING FROM THE WORKS.
 - LATERAL SUPPORTS: PROVIDE LATERAL SUPPORT AT LEAST EQUAL TO THAT GIVEN BY THE STRUCTURE TO BE DEMOLISHED, USING SHORING.
 - VERTICAL SUPPORTS: PROVIDE SUPPORT WHERE NECESSARY USING PILING OR UNDERPINNING, OR BOTH. PROVIDE DUST PROOF SCREENS, BULKHEADS AND COVERS TO PROTECT EXISTING FINISHES AND THE IMMEDIATE **ENVIRONMENT FROM DUST AND DEBRIS**
- DO NOT USE EXPLOSIVES.
- HAZARDOUS MATERIALS. GIVE NOTICE IMMEDIATELY IF HAZARDOUS MATERIALS OR CONDITIONS ARE FOUND, INCLUDING THE FOLLOWING:
- ASBESTOS OR MATERIAL CONTAINING ASBESTOS
- FLAMMABLE OR EXPLOSIVE LIQUIDS OR GASES.
- TOXIC, INFECTIVE AND CONTAMINATED MATERIALS
- RADIATION OR RADIOACTIVE MATERIALS.
- NOXIOUS OR EXPLOSIVE CHEMICALS.
- TANK OR OTHER CONTAINERS WHICH HAVE BEEN USED FOR STORAGE OF EXPLOSIVE, TOXIC, INFECTIVE OR CONTAMINATED SUBSTANCES

WORK NEAR EXISTING TREES AND TREE PROTECTION

TREES MUST NOT BE REMOVED OR LOPPED OR OTHERWISE DAMAGED. UNLESS SPECIFIED AND APPROVAL TO DO SO IS GIVEN BY THE SUPERINTENDENT. ALL CARE MUST BE TAKEN NOT TO DAMAGE OR INJURE ANY EXISTING TREES THAT ARE TO BE RETAINED. A QUALIFIED ARBORIST OR TREE PRESERVATION OFFICER IS TO BE CONSULTED PRIOR TO ANY EARTHWORKS BEING CONDUCTED NEAR EXISTING TREES WITHIN THE CONSTRUCTION ZONE. ANY DAMAGE INCURRED TO TREES THAT ARE TO BE RETAINED IS TO BE MADE GOOD AS SOON AS POSSIBLE FOLLOWING ADVICE BY AN APPROVED ARBORIST.

- IT IS THE SITE SUPERVISOR'S RESPONSIBILITY TO PROTECT ALL TREES IDENTIFIED FOR RETENTION. TREES TO BE RETAINED ARE TO BE PROTECTED WITH FENCING AND/OR TREE ARMOUR AS INDICATED ON THE
- DRAWINGS.
- COMPACTION OF SOIL IS TO BE AVOIDED WITHIN THE TREE PROTECTION ZONES SHOWN ON THE DRAWINGS. WHERE WORK IS REQUIRED TO BE UNDERTAKEN WITHIN THE TREE PROTECTION ZONES, TREE ARMOUR IS TO BE ERECTED AROUND THE TRUNK OF THE TREES AS INDICATED ON PLAN

 TREES ARE TO BE PROTECTED BY TEMPORARY CHAIN-WIRE CONSTRUCTION FENCING INSTALLED AT THE DRIPLINE IF POSSIBLE. TEMPORARY SIGNAGE LABELLED "TREE PROTECTION AREA. NO STORAGE OF MATERIALS OR MACHINERY" IS TO BE INSTALLED ON ALL TREE PROTECTION FENCING.

- TREE ARMOUR PROVIDE TREE ARMOUR AROUND TRUNKS OF TREES AS INDICATED ON PLAN BEFORE COMMENCEMENT OF ANY WORKS. ARMOUR IS TO CONSIST OF JUTE MATTING AND TIMBER BATTENS WRAPPED AROUND TREE TRUNKS AS INDICATED IN DRAWINGS.
- INSTALL A PROTECTIVE LAYER OF JUTE MAT AROUND TREE TRUNKS PRIOR TO INSTALLING TIMBER BATTENS AROUND TREE TRUNKS.
- TIMBER BATTENS ARE TO BE 1800 X 90 X 20mm. SECURE BATTENS INTO POSITION WITH THREE STRANDS OF WIRE OR NYLON WEBBING STAPLED OR NAILED TO CREATE A CONTINUOUS STRING, LONG ENOUGH TO SURROUND EACH
- ENSURE ARMOUR IS ATTACHED SECURELY AROUND THE TREE. AMOUR SHOULD BE ATTACHED TO ITSELF. NAILS OR FASTENERS ARE NOT TO BE ATTACHED DIRECTLY TO THE TREE TRUNK. ARMOUR IS TO REMAIN IN PLACE AS LONG AS MACHINERY IS REQUIRED ON SITE.

STORAGE OF MATERIALS:

- DO NOT STORE OR OTHERWISE PLACE BULK MATERIALS AND HARMFUL MATERIALS UNDER OR NEAR TREES WITHIN THE TREE PROTECTION ZONE. STORAGE OF MATERIALS, MIXING OF MATERIALS, VEHICLE PARKING, DISPOSAL OF LIQUIDS, MACHINERY REPAIRS AND REFUELLING, SITE OFFICE AND SHEDS MUST NOT OCCUR WITHIN THE DRIP LINE OF ANY EXISTING TREES, OR WITHIN 5M OF ANY EXISTING TREES WHERE THE DRIP LINE RADIUS IS LESS THAN 5m.
- DO NOT PLACE SPOIL FROM EXCAVATIONS AGAINST TREE TRUNKS, EVEN FOR SHORT PERIODS. PREVENT WIND-BLOWN MATERIALS SUCH AS CEMENT FROM HARMING TREES AND PLANTS.

WORK UNDER TREES:

MINIMISE EXCAVATION OR FILLING AROUND TREES. IF CONSTRUCTION WORKS ARE NECESSARY AROUND TREES THEN MINIMISE THE USE OF MACHINERY. LEAVE TRENCHES OR EXCAVATED AREAS EXPOSED FOR AS SHORT A PERIOD AS POSSIBLE.

- TREE ROOTS EXCEEDING 100mm DIAMETER ARE NOT TO BE CUT UNLESS ADVICE IS FIRST SOUGHT FROM AN
- USE HAND TOOLS OR A CHAINSAW TO MAKE CLEAN CUTS TO ROOTS THAT REQUIRE CUTTING.

- MINIMISE CHANGES TO SOIL SURFACE LEVELS AROUND TREES.
- RETURN NATURAL SOILS TO EXCAVATED AREAS OR USE OTHER VIRGIN EXCAVATED NATURAL MATERIAL (VENM)
- ROAD MILLINGS, WASTE CONCRETE, ASPHALT OR OTHER FOREIGN MATERIALS ARE NOT TO BE USED FOR BACKFILLING WITHIN TREE ROOT ZONES.
- DO NOT BACKFILL AROUND TREE TRUNKS TO A HEIGHT GREATER THAN 300MM ABOVE THE ORIGINAL GROUND SURFACE UNLESS AUTHORISED.
- THOROUGHLY WATER THE SOIL FOLLOWING EXCAVATION WITHIN TREE ROOT ZONES.

SHEET INDEX						
SHEET No	REV	DESCRIPTION				
C00	D	COVER SHEET AND NOTES				
C01	D	SURVEY PLAN				
C02	D	CONSTRUCTION PLAN				
C03	D	SETOUT PLAN				
C04	D	LONGITUDINAL SECTIONS CL, KR1 AND KR2				
C05	D	CROSS SECTIONS CH3.77 TO 59.58				
C06	D	CROSS SECTIONS CH66.1 TO 107.5				
C07	D	LONGITUDINAL DRAINAGE SECTIONS/DETAILS				
C08	D	B85-SWEPT PATHS AND PROFILES				

						DATUM	SURVEYOR	APPROVED	DATE
	D	COUNCIL COMMENTS	C.J.	C.J.	12/9/24			C.J.	28/7/03
	С	UPDATE TITLE DETAILS	C.J.	C.J.	16/5/24	AZIMUTH MGA	FIELD BOOK	CHECKED	DATE
	В	ADJUST DRIVEWAY ALIGNMENT	C.J.	C.J.	19/4/24		L TED PLANS	C.J.	28/7/23
Ī	Α	ADJUST DRAINAGE LAYOUT AND DRIVEWAY ALIGNMENT	C.J.	C.J.	5/4/24	1,227	125 / 2/110	DECIGNED	5.75
	ISSUE	DESCRIPTION	DRAWN	APPR'D	DATE			DESIGNED B.A.	DATE 28/7/23



SHIRE CIVIL DESIGN CIVIL, HYDRAULIC & TRAFFIC ENGINEERING

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CLIENT: D.W.KNOX & PARTNERS 32A,34,36,38 NAREEN PDE, NTH NARRABEEN DRIVEWAY REMEDIATION

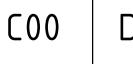
COVER SHEET AND NOTES



AS-NOTED

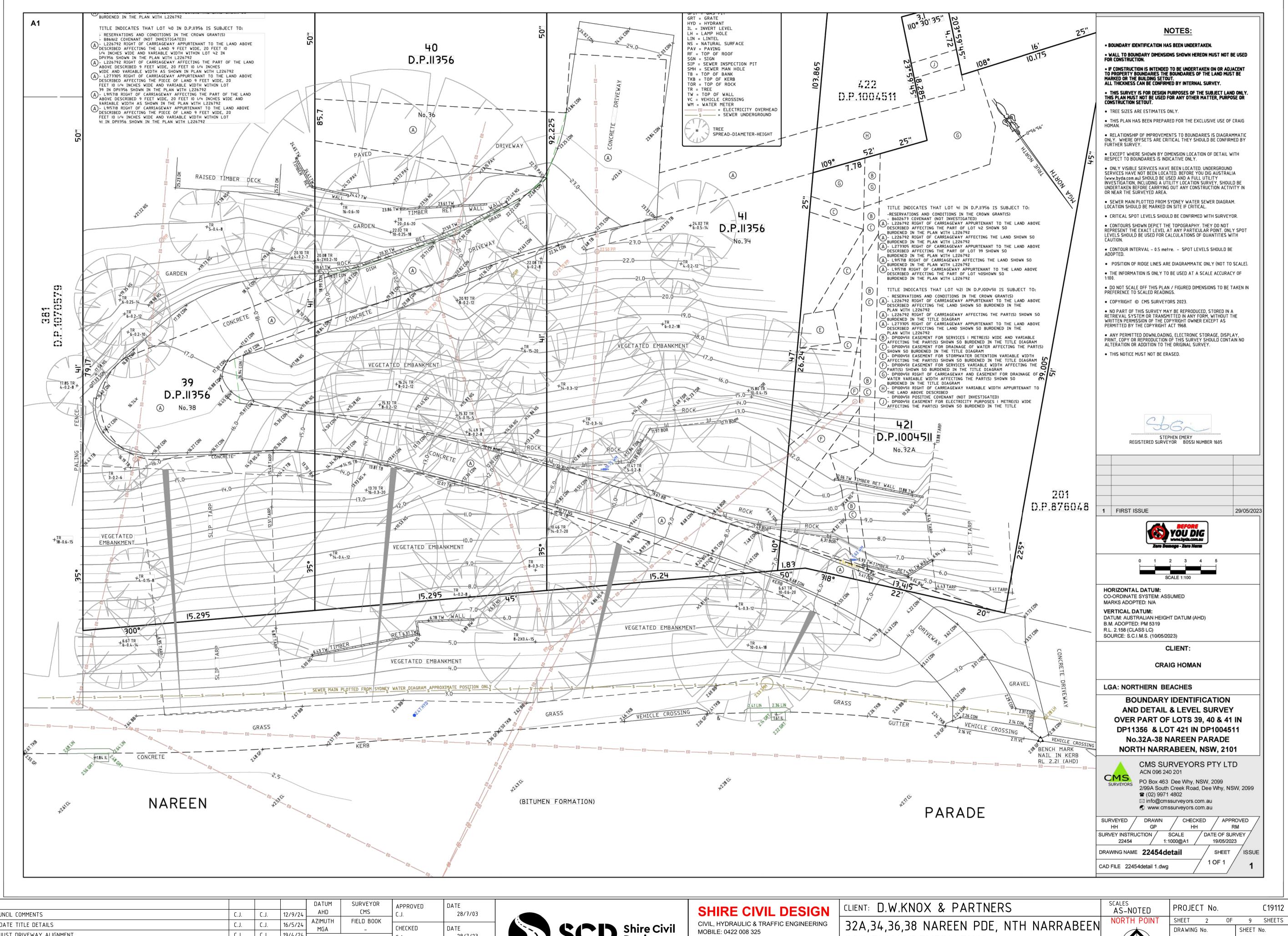
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PROJECT No



ISSUE

C19112



					DATUM	SURVEYOR	APPROVED	DATE
D	COUNCIL COMMENTS	C.J.	C.J.	12/9/24	AHD	CMS	C.J.	28/7/03
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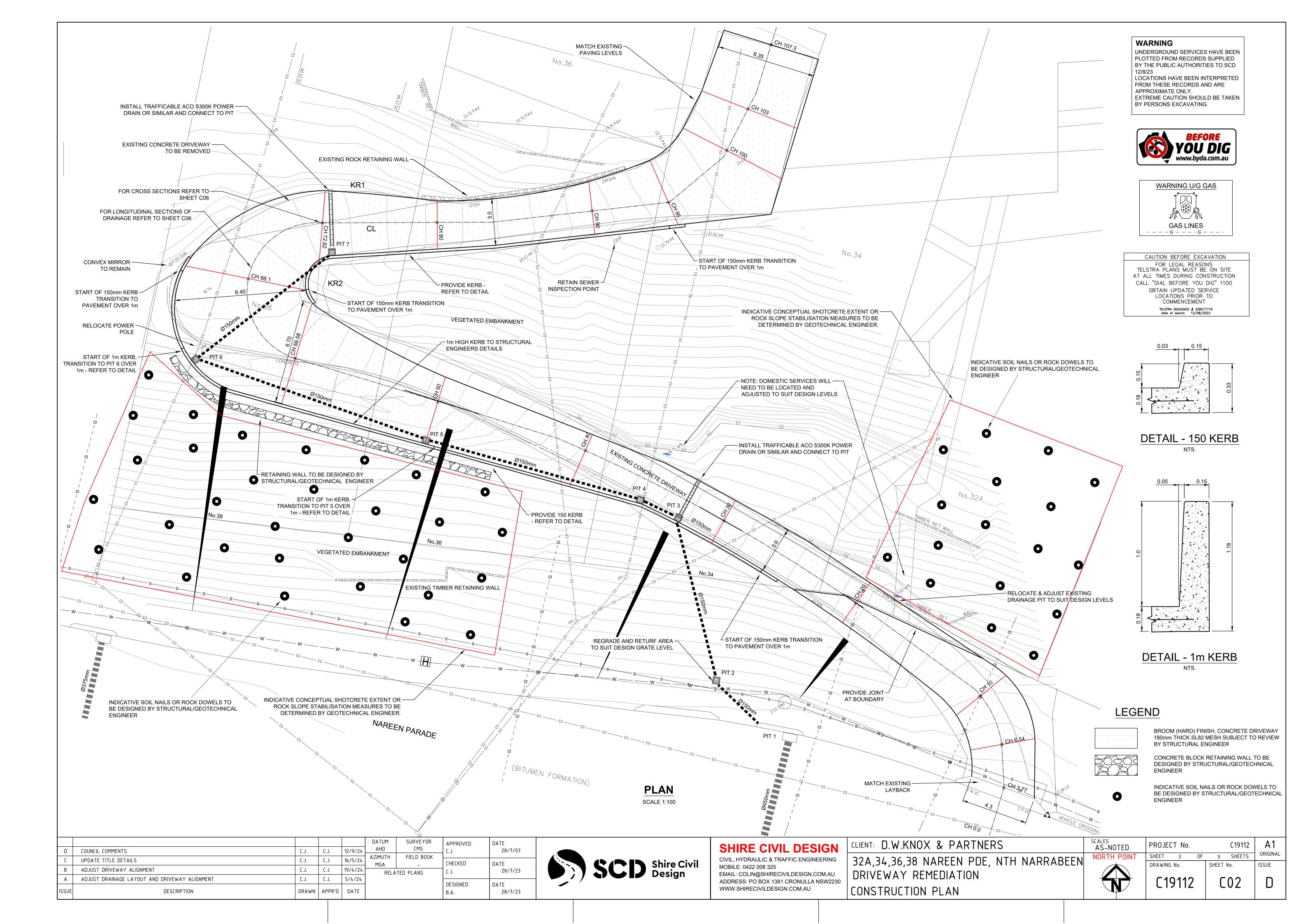
32A,34,36,38 NAREEN PDE, NTH NARRABEEN DRIVEWAY REMEDIATION SURVEY PLAN

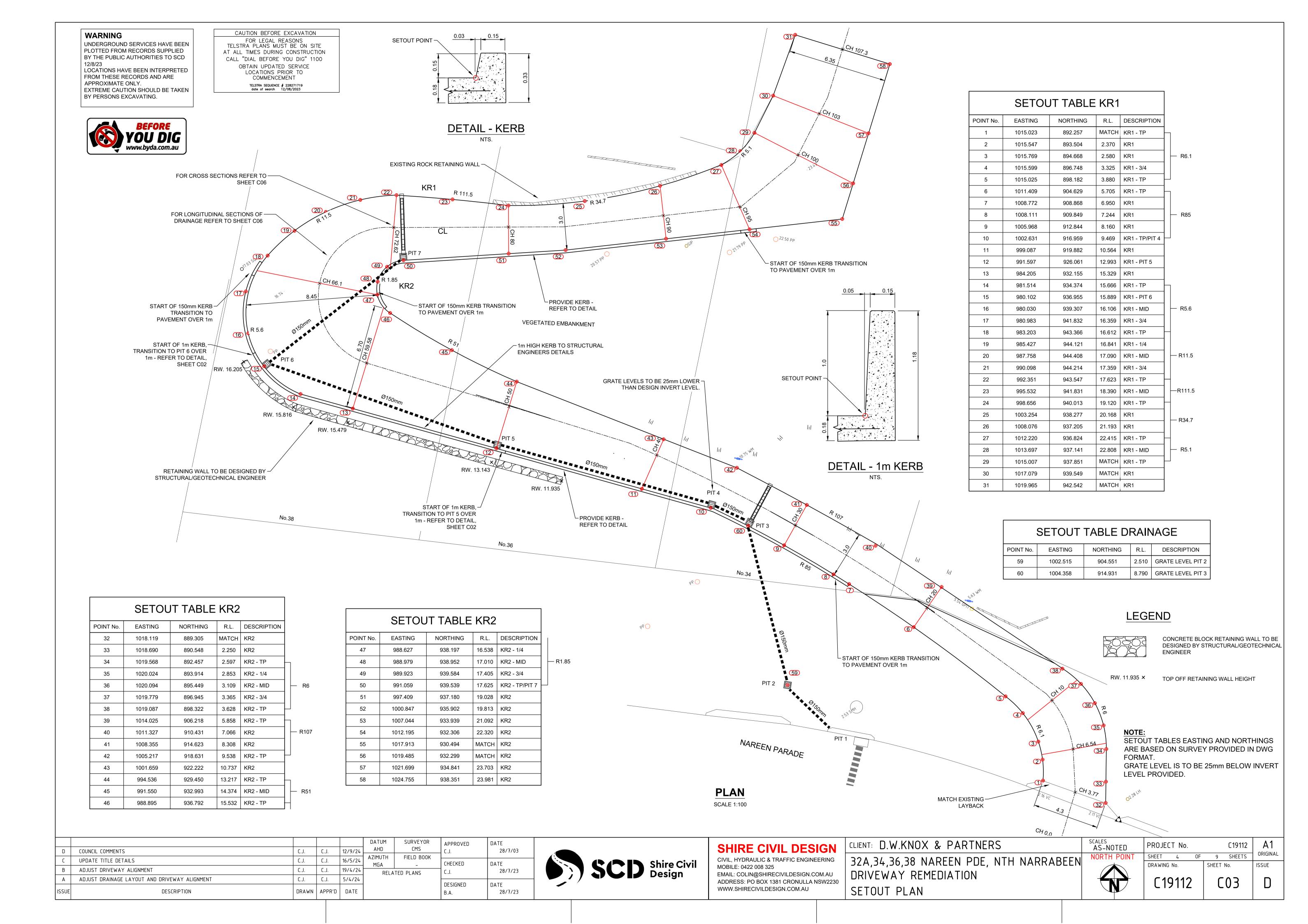
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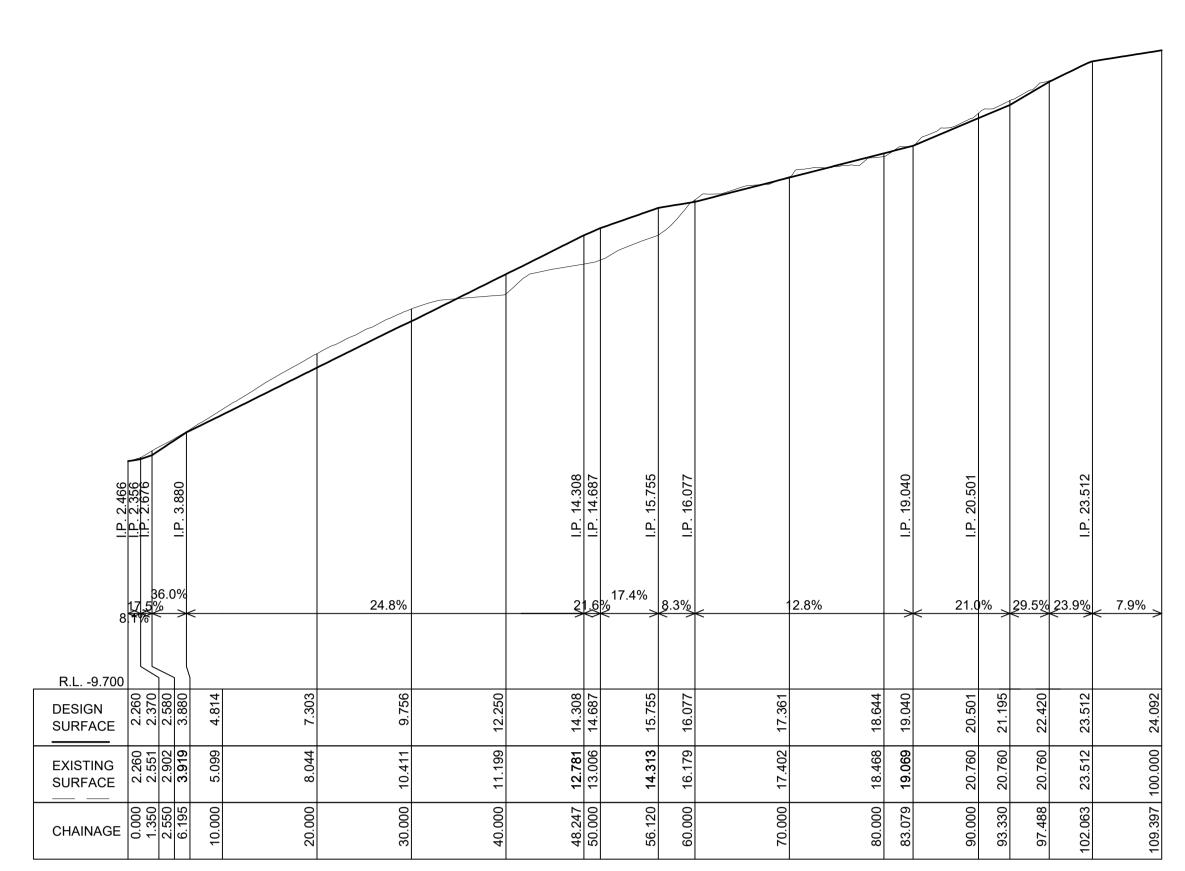
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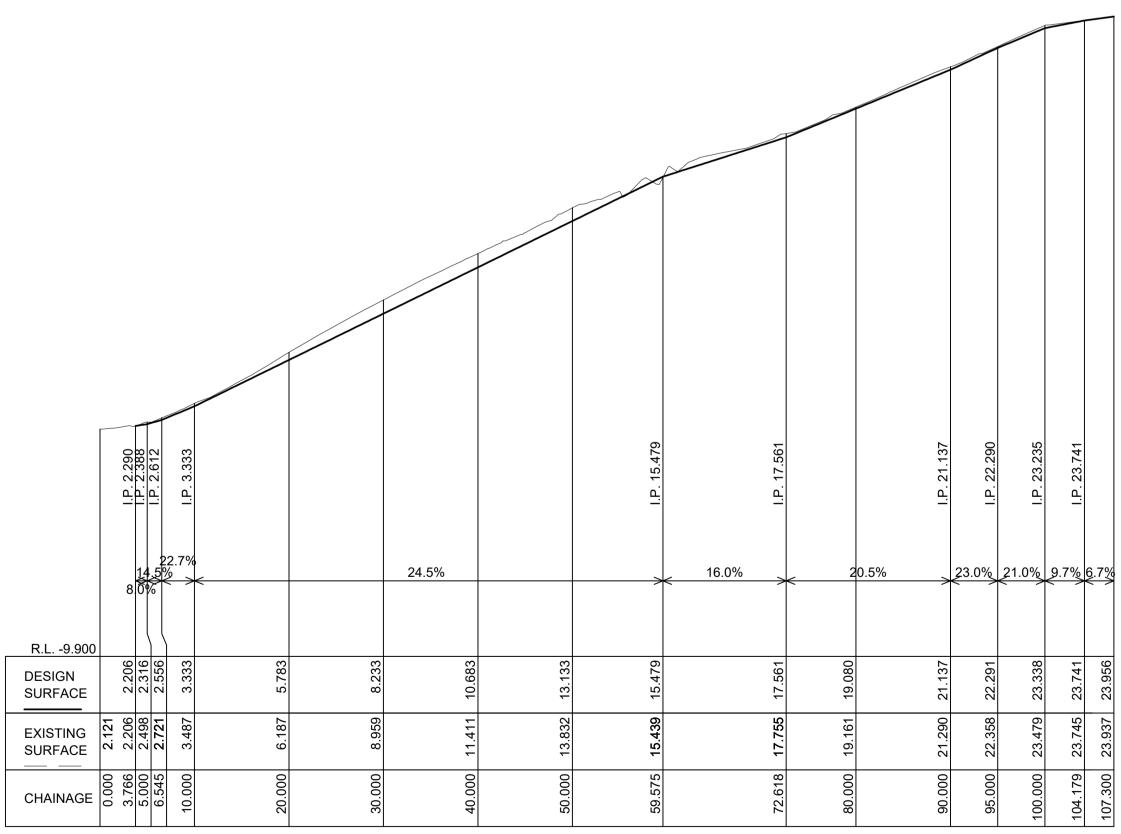






LONGITUDINAL SECTION KERB 1 (KR1)

KR1 Ch 0.000 to Ch 109.397 SCALES: HORIZONTAL 1:400 VERTICAL 1:200



LONGITUDINAL SECTION CENTRE LINE (CL) CL Ch 0.000 to Ch 107.300 SCALES: HORIZONTAL 1:400 VERTICAL 1:200

C.J. C.J. 12/9/24

DRAWN APPR'D DATE

16/5/24

19/4/24

5/4/24

C.J. C.J.

C.J. C.J.

C.J. C.J.

COUNCIL COMMENTS

UPDATE TITLE DETAILS

ADJUST DRIVEWAY ALIGNMENT

ADJUST DRAINAGE LAYOUT AND DRIVEWAY ALIGNMENT

DESCRIPTION

DATUM

AZIMUTH

SURVEYOR

FIELD BOOK

CMS

APPROVED

CHECKED

DESIGNED

DATE 28/7/23 28/7/23 DATE 28/7/23

		I.P. 3.683					I.P. 15.532	I.P. 17.578			I.P. 21.033	I.P. 23.316	
R.L9.800	×	16.5%	€		24.3%		>	<u>46.4%</u>	€	20.8%	21.6%	22.8% 9.70	%
DESIGN SURFACE	2.140	3.683	6.099	8.515	10.906	13.356	15.532	17.578	19.004		21.092	23.316	
EXISTING SURFACE	2.140	4.215	6.510	9.453	11.686	13.958	16.151	17.667	19.182		21.209	23.243	
CHAINAGE	0.000	10.000	20.000	30.000	40.000	50.000	58.711	63.115	70.000		80.000	90.000	

LONGITUDINAL SECTION KERB 2 (KR2)

KR2 Ch 0.000 to Ch 91.684

SCALES: HORIZONTAL 1:400 VERTICAL 1:200

DRIVEWAY REMEDIATION

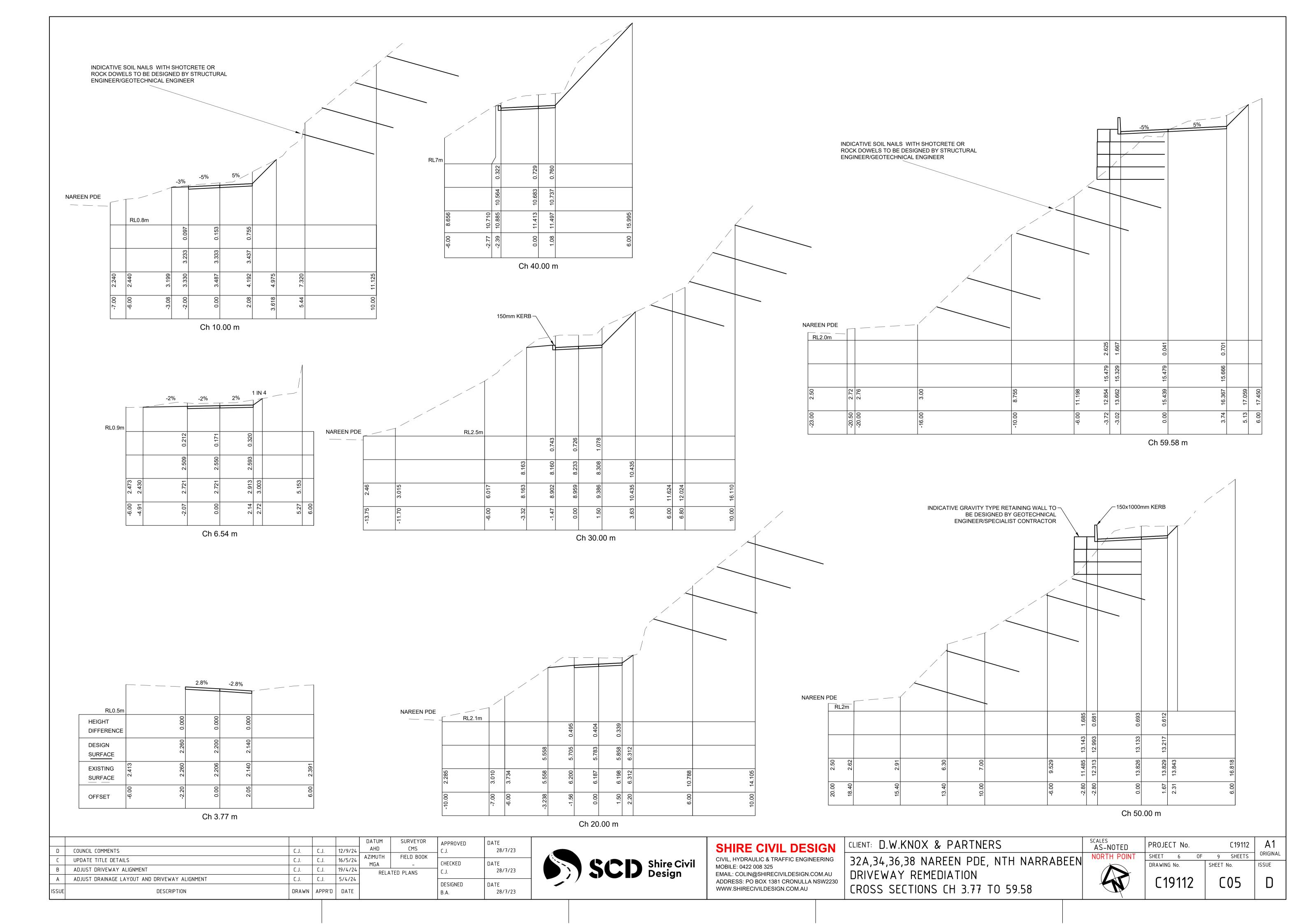
CLIENT: D.W.KNOX & PARTNERS SHIRE CIVIL DESIGN 32A,34,36,38 NAREEN PDE, NTH NARRABEEN

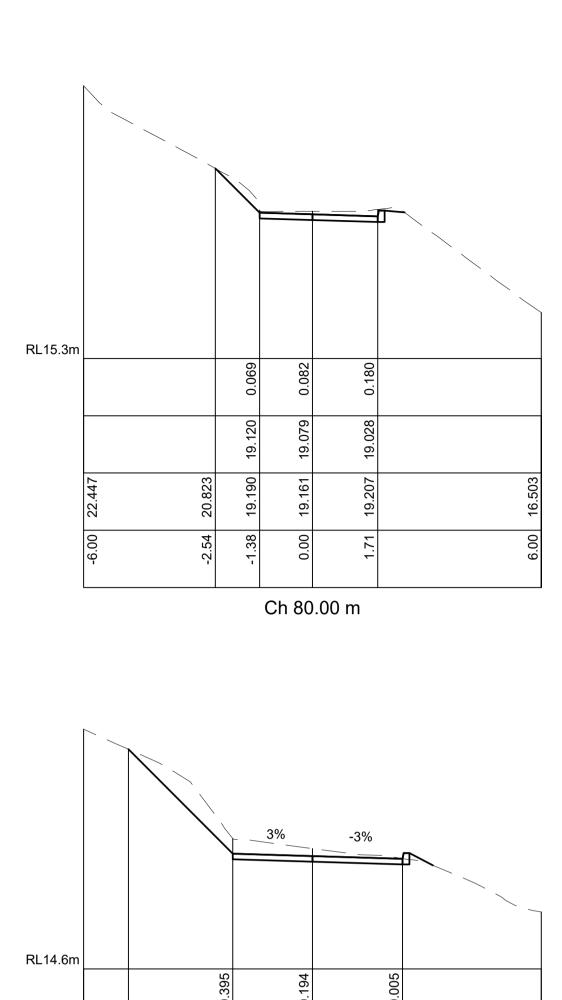
SCALES AS-NOTED LONGITUDINAL SECTIONS-CL, KR1 AND KR2

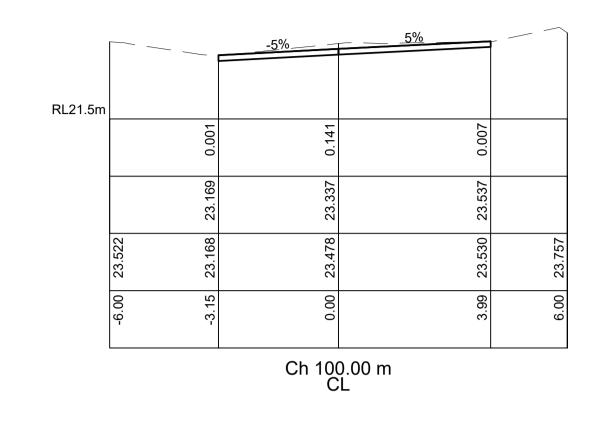
PROJECT No. C19112 SHEET 5 OF 9 SHEETS DRAWING No. SHEET No. ISSUE C04

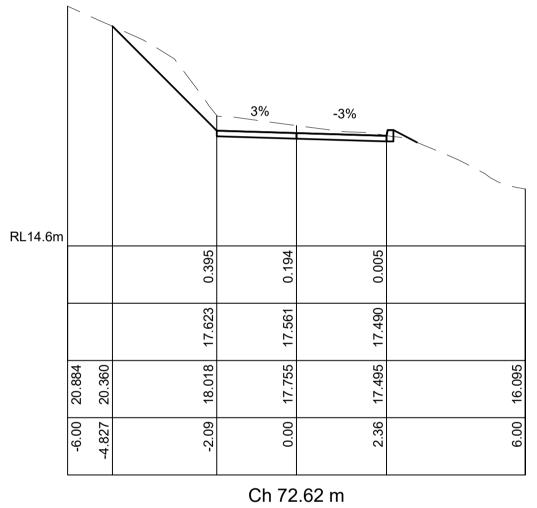
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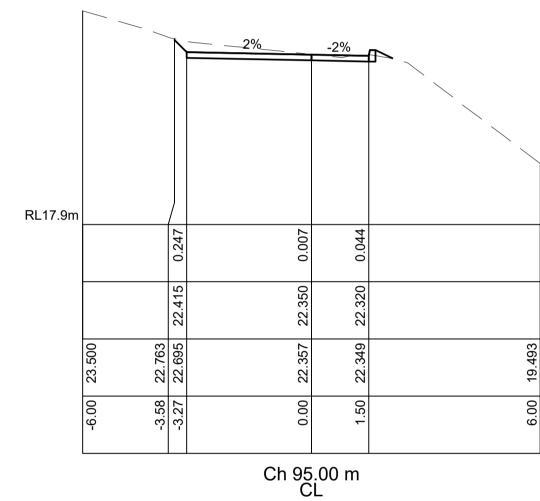
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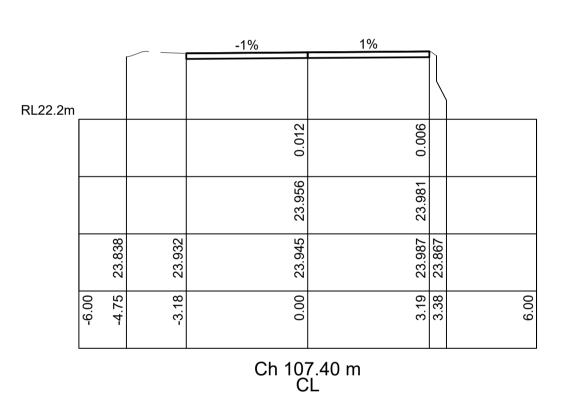


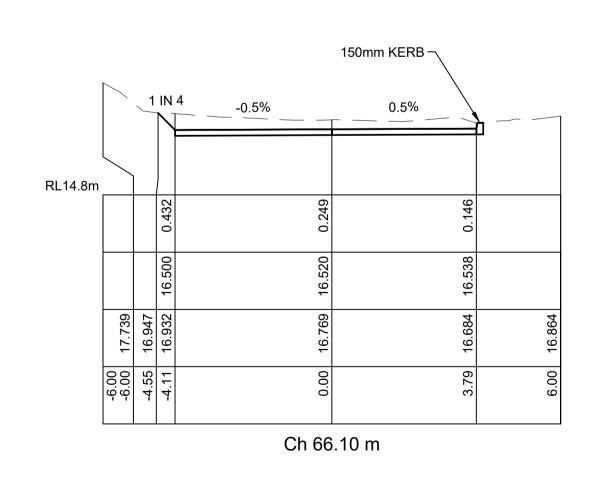


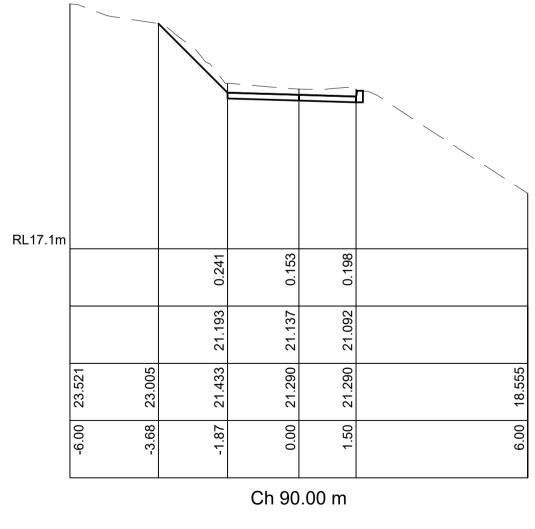












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D	COUNCIL COMMENTS	C.J.	C.J.	12/9/24
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ISSUE	DESCRIPTION	DRAWN	APPR'D	DATE

+	DATUM AHD AZIMUTH	SURVEYOR CMS FIELD BOOK	APPROVED C.J.	DATE 28/7/23
+	MGA	- TED PLANS	CHECKED C.J.	DATE 28/7/23
			DESIGNED B.A.	DATE 28/7/23



SHIRE CIVIL DESIGN	
CIVIL. HYDRAULIC & TRAFFIC ENGINEERING	

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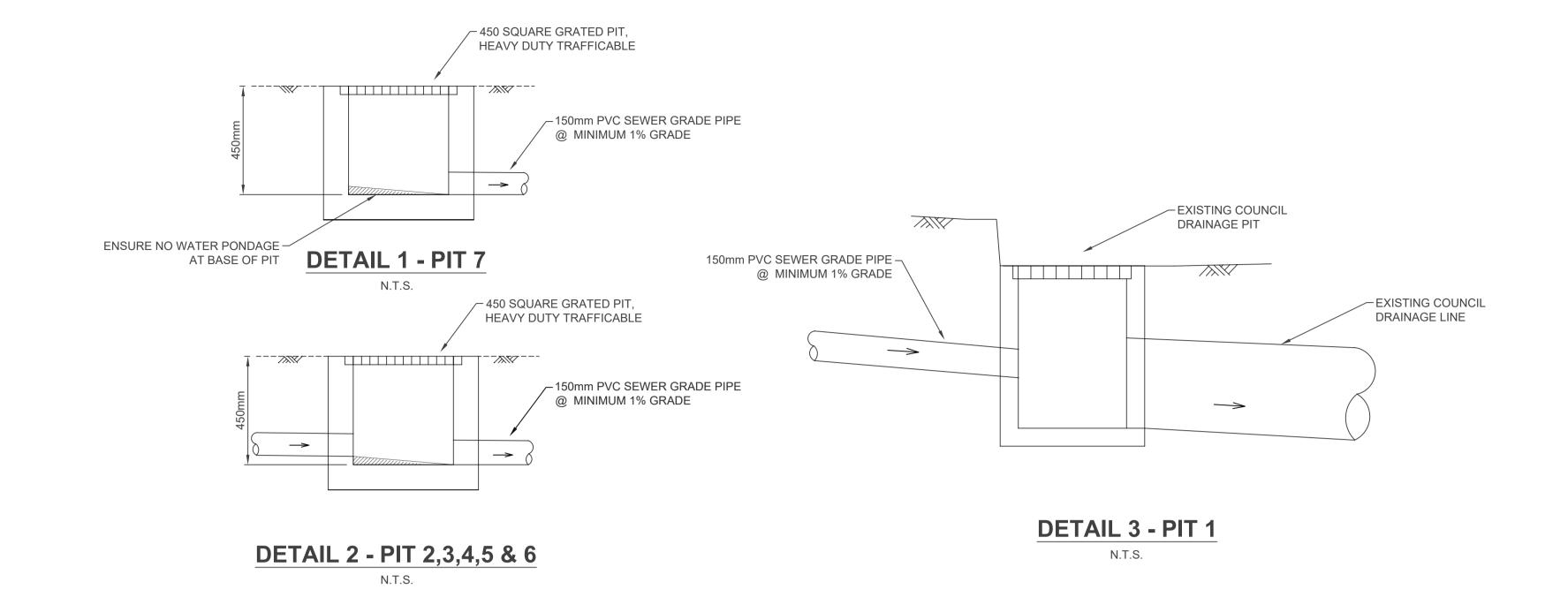
CLIENT: D.W.KNOX & PARTNERS	SC
32A,34,36,38 NAREEN PDE, NTH NARRABEEN	N
DRIVEWAY REMEDIATION	
CROSS SECTION CH 66.1 TO 105	

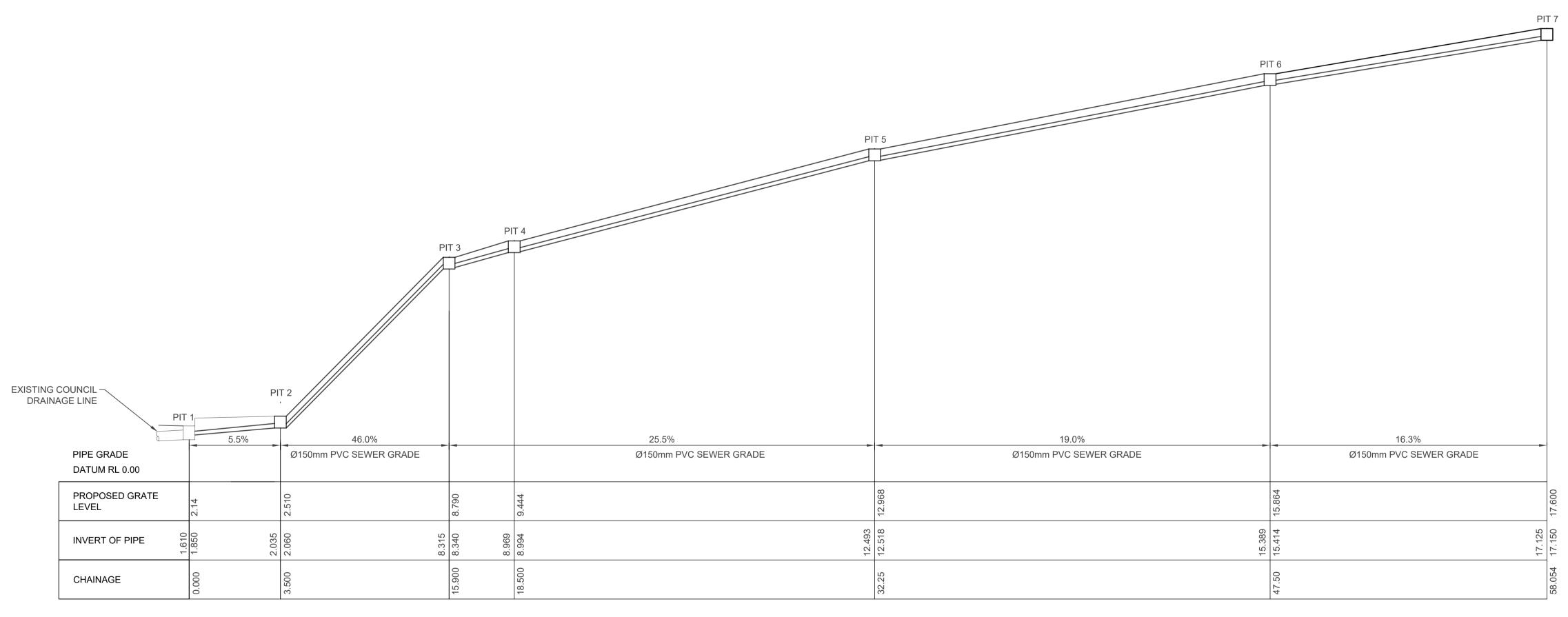
	SCALES
	AS-NOTED
1	NORTH POINT
V	

	PROJE	CT No.			A1	
	SHEET	7	OF	9	SHEETS	ORIGINAL
	C19112			SHEET	No.	ISSUE
					06	D

GENERAL NOTES:

- 1. ALL HYDRAULIC WORKS TO BE IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL'S STANDARD
- SPECIFICATIONS AND TO THE SUPERVISING ENGINEER'S SATISFACTION.
- THESE PLANS TO BE READ IN CONJUNCTION WITH THE STRUCTURAL/GEOTECHNICAL PLANS FROM
 CONTOUR PLAN SUPPLIED BY OTHERS
- 4. DEPTH & LOCATION OF SERVICES TO BE CONFIRMED BY BUILDER PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORKS TO ENSURE NO CONFLICT ARISES.
- 5. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
- 6. SYDNEY WATER TO BE ADVISED & CONSULTED WITH ANY CONSTRUCTION OVER/NEAR SEWER MAIN LINES FOR APPROPRIATE DESIGN REQUIREMENTS.
- 7. THE EXACT LOCATION OF STORMWATER LINE, PITS & RWTS MAY ALTER DURING CONSTRUCTION, TO SUIT THE SITE CONDITION.
- 8. ENSURE NO DAMAGE OCCURS TO EXISTING TREE ROOTS WHILE CONSTRUCTING THE STORMWATER
- 9. ENSURE NO WATER PONDAGE OCCURS AROUND DWELLING -SLOPE FINISHED GROUND LEVEL TOWARDS YARD SUMPS OR PITS.
- 10. ALL STORMWATER PIPES TO BE 100 DIA. UPVC UNLESS NOTED OTHERWISE. PIPES UNDER BUILDING, DRIVEWAY AND PATH TO BE SEWER GRADE.
- 11. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENTATION CONTROL MEASURES AS NECESSARY AND TO THE SATISFACTION OF COUNCIL PRIOR TO COMMENCEMENT OF CONSTRUCTION AND DURING CONSTRUCTION.





CL Ch 0.000 to Ch 58.054 SCALES: HORIZONTAL 1:100 VERTICAL 1:100

					DATUM	SURVEYOR	APPROVED	DATE	Τ
D	COUNCIL COMMENTS	C.J.	C.J.	12/9/24		CMS	C.J.	28/7/23	
С	UPDATE TITLE DETAILS	C.J.	C.J.	16/5/24	AZIMUTH MGA	FIELD BOOK	CHECKED	DATE	1
В	ADJUST DRIVEWAY ALIGNMENT	C.J.	C.J.	19/4/24	11671		C.J. 28/7/23		
Α	ADJUST DRAINAGE LAYOUT AND DRIVEWAY ALIGNMENT	C.J.	C.J.	5/4/24			DECICNED	DATE	-
ISSUE	DESCRIPTION	DRAWN	APPR'D	DATE			DESIGNED B.A.	DATE 28/7/23	



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LIENT: D.W.KNOX & PARTNERS	S
2A,34,36,38 NAREEN PDE, NTH NARRABEEN	١
DRIVEWAY REMEDIATION	
ONGITUDINAL DRAINAGE SECTION/DETAILS	

	SCALES AS-NOTED	PROJECT No.			C19112	A
	NORTH POINT	SHEET 8	OF	9	SHEETS	ORIGI
7		DRAWING No.		SHEET	No.	ISSUE
		C19112		C	07	

