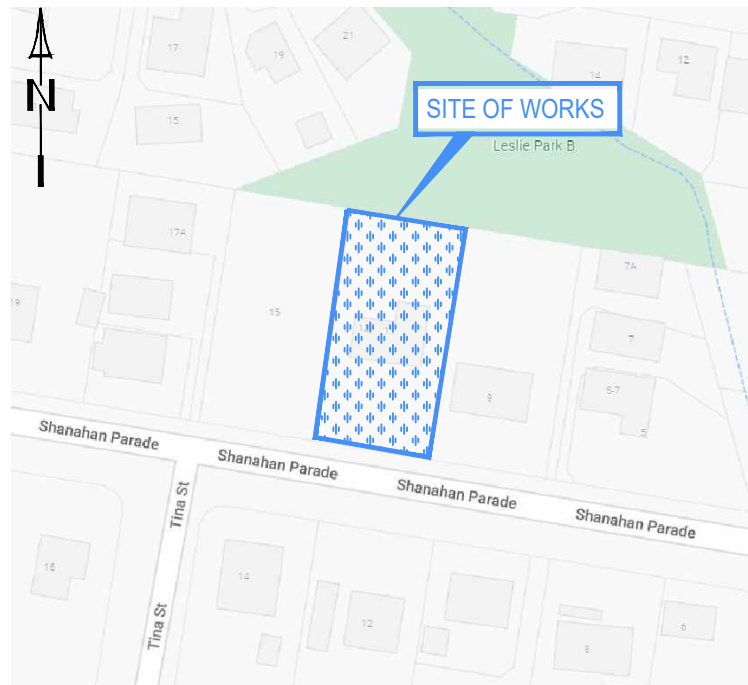


1 INTO 3 LOT SUBDIVISION DEVELOPMENT 11 SHANAHAN PARADE, REDBANK PLAINS CIVIL ENGINEERING PACKAGE FOR PROSPERITY CAPITAL PRINCIPLES PL



LOCALITY PLAN

EXTRACTED FROM GOOGLE MAPS © 2020
NOT TO SCALE

LOT DATA

27	RP 132796
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REFER TO SURVEY PLAN BY AXIS SURVEYS FOR REFERENCE PSM TO BE USED AS REFERENCE FOR ALL SETOUT INFORMATION DURING CONSTRUCTION. CONTRACTOR TO CONFIRM SURVEY SETOUT REFERENCE WITH REGISTERED SURVEYOR PRIOR TO CONSTRUCTION. ALL LEVELS TO AUSTRALIAN HEIGHT DATUM (AHD), GRID COORDINATE SYSTEM AS SPECIFIED BY SURVEYOR.

MELIORA ENGINEERING ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UNDERGROUND SERVICES WHICH ARE PLOTTED FROM AUTHORITY RECORDS BY THE SURVEYOR. DOCUMENTED DESIGNS MAY BE SUBJECT TO ONGOING CHANGES UNTIL RECEIPT AND REVIEW OF MINIMUM QUALITY LEVEL A EXISTING SERVICE LOCATION RESULTS ALONG FULL LENGTH OF PROPOSED MAIN ALIGNMENTS. MELIORA WILL NOT BE HELD LIABLE FOR COST INCREASES OR TIME EXTENSION RESULTING FROM NECESSARY DESIGN CHANGES TO ACHIEVE AUTHORITY CODE COMPLIANCE.

GENERAL LEGEND

DETAIL CALLOUT & REFERENCE

SETOUT POINT

CONTOURS LEGEND

DESIGN/FINISHED SURFACE CONTOURS

EXISTING SURFACE CONTOURS

BOUNDARIES LEGEND

PROPOSED LOT BOUNDARIES

PROPOSED EASEMENT



DRAWING SCHEDULE

DRAWING No.	DRAWING TITLE
C01	COVER, LOCALITY, SCHEDULE & GENERAL NOTES
C10	EROSION & SEDIMENT CONTROL LAYOUT PLAN
C15	EROSION & SEDIMENT CONTROL NOTES & DETAILS - SHEET 1 OF 2
C16	EROSION & SEDIMENT CONTROL NOTES & DETAILS - SHEET 2 OF 2
C20	EARTHWORKS LAYOUT PLAN & NOTES
C25	EARTHWORKS SECTIONS
C30	ROADWORKS & DRAINAGE LAYOUT PLAN & NOTES
C35	ROADWORKS & DRAINAGE DETAILS - SHEET 1 OF 2
C36	ROADWORKS & DRAINAGE DETAILS - SHEET 2 OF 2
C40	STORMWATER DRAINAGE CATCHMENT LAYOUT PLAN
C41	STORMWATER DRAINAGE LONGITUDINAL SECTION

EXISTING FEATURES LEGEND

EXISTING PROPERTY BOUNDARY	---
EXISTING BOUNDARY ADJACENT	---
EXISTING EASEMENT	---
CONTOURS EXISTING MAJOR	----- 18.0 -----
CONTOURS EXISTING MINOR	----- 17.9 -----
EARTHWORKS EXISTING BATTER TOE	---
EARTHWORKS EXISTING BATTER TOP	---
BUILDING EXISTING	---
BUILDING EXISTING ROOF/EAVE	---
MISC FENCE / GATE EXISTING	---
ROAD EXISTING KERB	---
ROAD EXISTING CENTERLINE	---
ROAD EXISTING EDGE BITUMEN	---
COMMUNICATIONS EXISTING	--- C --- C ---
DRAINAGE EXISTING CENTERLINE	--- SWD ---
DRAINAGE EXISTING TEXT	--- dSWD --- dSWD ---
ELECTRICAL EXISTING OVERHEAD	--- OE --- OE ---
ELECTRICAL EXISTING UNDERGROUND	--- E --- E ---
ELECTRICAL EXISTING CENTERLINE DBYD	--- dE --- dE --- dE ---
GAS EXISTING	--- G --- G ---
GAS EXISTING CENTERLINE DBYD	--- dG --- dG --- dG ---
SEWER EXISTING CENTERLINE	--- S --- S ---
SEWER EXISTING RISING MAIN	--- RM --- RM ---
SEWER EXISTING CENTERLINE DBYD	--- dS --- dS --- dS ---
SEWER RISING MAIN EXISTING CENTERLINE DBYD	--- dSRM --- dSRM ---
TELECOMMUNICATIONS EXISTING	--- T --- T ---
TELECOMMUNICATIONS EXISTING CENTERLINE DBYD	--- dT --- dT --- dT ---
FIBER OPTIC CABLES EXISTING CENTERLINE DBYD	--- dOF --- dOF ---
WATER EXISTING CENTERLINE	--- W --- W ---
WATER EXISTING CENTERLINE DBYD	--- dW --- dW --- dW ---
ABANDONED SERVICES	x x x x x x x x x x x x
EXISTING RETAINING WALL - BOULDER	OOOOOOOOOOOOOOOO
EXISTING RETAINING WALL - BLOCK	#####
EARTHWORKS EXISTING DRAIN	> > >
EARTHWORKS EXISTING DRAIN CONCRETE	> > >
EXISTING VEGETATION TREE PROTECTION ZONE IN PROXIMITY TO PROPOSED CIVIL WORKS	○

GENERAL NOTES

- ALL WORKS TO BE CARRIED OUT STRICTLY IN ACCORDANCE WITH THE APPROVAL DEVELOPMENT CONDITIONS, CURRENT COUNCIL (AND OTHER RELEVANT AUTHORITY) GUIDELINES AND STANDARD DRAWINGS UNLESS DIRECTED OTHERWISE.
- A LEGIBLE COPY OF THE COUNCIL APPROVED DRAWINGS AND DOCUMENTS (INCLUDING CONDITIONS) MUST BE MAINTAINED AND KEPT ON SITE FOR INSPECTION BY SITE WORKERS AND COUNCIL OFFICERS.
- REFER TO MANDATORY REFERENCE NOTES ON THIS PAGE.
- REFER TO ARCHITECTURAL, HYDRAULIC, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SITE SERVICES TO BE CO-ORDINATED WITH AND CONSIDERED DURING CONSTRUCTION OF CIVIL WORK.
- THE DEVELOPER IS TO NOMINATE THE SUPERINTENDENT FOR THE WORKS AND NOTIFY ALL RELEVANT PARTIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR IS TO REQUEST DETAILS OF SUPERINTENDENT PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS TO ALLOW TO ERECT AN INFORMATION SIGN ON THE SUBJECT PROPERTY PRIOR TO CONSTRUCTION, IN ACCORDANCE WITH CONDITIONS AND COUNCIL REQUIREMENTS.
- ALL DIMENSIONS ON THE DRAWINGS ARE IN METRES UNLESS SHOWN OTHERWISE. DO NOT SCALE OFF THESE DRAWINGS. IF IN DOUBT ASK SUPERINTENDENT FOR CLARIFICATION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL EXISTING SERVICES ON SITE PRIOR TO CONSTRUCTION AND LAYING OF ANY SERVICES AND ADVISE THE SUPERINTENDENT OF ANY DIFFERENCES FROM THE DRAWINGS. ANY DAMAGE TO EXISTING SERVICES WILL BE REPAIRED AT THE CONTRACTORS COST.
- ALL SETTING OUT IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO WORKS COMMENCING ON SITE. THE SUPERINTENDENT'S SURVEYOR SHALL PEG ALL ALLOTMENT BOUNDARIES, PROVIDE CO-ORDINATE INFORMATION TO THESE PEGS AND PLACE BENCH MARKS. THE CONTRACTOR SHALL SET OUT THE WORKS FROM AND MAINTAIN THESE PEGS.
- THE CONTRACTOR IS TO DEVELOP A SUITABLE CONSTRUCTION MANAGEMENT PLAN (CMP) TO ADDRESS RELEVANT DEVELOPMENT APPROVAL CONDITION CMP REQUIREMENTS INCLUDING (BUT NOT LIMITED TO):
 - PURSUANT TO THE ENVIRONMENTAL PROTECTION ACT 1994, DEVELOPMENT INVOLVING THE EMISSION OF NOISE AND DUST FROM CONSTRUCTION ACTIVITIES MUST ENSURE EMISSIONS ARE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ACT. WORKS SHALL BE PROGRAMMED SO AS NOT TO DISTURB NEARBY HOUSEHOLDERS EITHER BY DUST, NOISE, FLOODING OR DISCONNECTION OF SERVICES. (FOR MARKETING REASONS IT IS ESSENTIAL THE SITE IS KEPT IN A TIDY STATE EVEN DURING CONSTRUCTION. THE CONTRACTOR SHALL ALLOW ALL COSTS TO CLEAN-UP THE SITE INCLUDING REMOVAL OF RUBBISH AND EXCESS SOIL, STACKING OF LOOSE PIPES AND GRADING OF DISTURBED AREAS WEEKLY).
 - TRANSPORTATION ROUTES FOR IMPORTED AND EXPORTED MATERIALS TO BE APPROVED BY THE LOCAL COUNCIL.
 - UNDERTAKE ACTIVITIES ASSOCIATED WITH THE OPERATION OF THE USE ONLY BETWEEN THE HOURS OF 8:30am TO 16:30pm MONDAY TO FRIDAY UNLESS STATED OTHERWISE IN THE DEVELOPMENT CONDITIONS.
 - OBTAIN NECESSARY PERMITS AND APPROVALS FROM RELEVANT AUTHORITIES BEFORE COMMENCING WORK ON SITE OR IN THE VERGE. NOTIFY RELEVANT SERVICE AUTHORITIES BEFORE COMMENCING WORK ON SITE OR IN THE VERGE.
- ANY REQUIRED SERVICE CONDUITS (INCLUDING LEAD IN CONDUITS) FOR THE DEVELOPMENT SHALL BE INSTALLED TO COUNCIL, ENERGEX, TELSTRA, OPTUS AND GAS AUTHORITY STANDARDS AT LOCATIONS DETERMINED BY THE RELEVANT AUTHORITIES (OR RELEVANT ELECTRICAL CONSULTANTS) WITH COSTS BORNE BY THE DEVELOPER. CONTRACTOR TO CONFIRM FINAL SPECIFICATION FOR SERVICE CONDUITS PRIOR TO CONSTRUCTION TO BE IN ACCORDANCE WITH CONSULTANT/AUTHORITY DRAWINGS WHICH WILL SUPERSEDE ANY LOCATIONS AS SHOWN ON MELIORA CIVIL PLANS. NBN & ELEC LEAD IN CONDUITS TO SATISFY AS/NZS 3000 (SAA WIRING RULES), INCLUDE PROTECTIVE COVER STRIP ABOVE AND DRAW WIRES WITH UPRIGHT CONDUITS ABOVE SERVICE TO ID LOCATION. EXTERNAL (AUTHORITY) ELEC/COMMS CONNECTIONS WILL BE BY OTHERS.
- SURVEY BENCHMARKS ARE TO BE CONFIRMED ONSITE PRIOR TO CONSTRUCTION AND USED AS REFERENCE FOR ALL CONSTRUCTION SETOUT AND PERMANENT SURVEY MARKS ARE TO BE INSTALLED AS PER COUNCIL STANDARDS.
- THESE DRAWINGS DO NO DETAIL TEMPORARY WORKS. CONSTRUCTION METHODS AND TEMPORARY WORKS ARE RESPONSIBILITY OF THE CONTRACTOR.
- REGARDLESS OF DRAWING ISSUE STATUS, DOCUMENTED DESIGNS MAY BE SUBJECT TO ONGOING CHANGES UNTIL RECEIPT AND REVIEW OF ALL 'LEVEL 1' EXISTING SERVICE LOCATION RESULTS ALONG FULL LENGTH OF PROPOSED MAIN ALIGNMENTS. MELIORA WILL NOT BE HELD LIABLE FOR COST INCREASES OR TIME EXTENSION RESULTING FROM NECESSARY DESIGN CHANGES TO ACHIEVE AUTHORITY CODE COMPLIANCE.
- FIRE ANT MOVEMENT CONTROLS: THE QUEENSLAND GOVERNMENT HAS IMPLEMENTED IMPROVEMENT CONTROLS IN AREAS OF QUEENSLAND (BIOSECURITY ZONES) WHERE THIS PEST SPECIES HAS BEEN DETECTED. THESE CONTROLS APPLY TO INDIVIDUALS AND COMMERCIAL OPERATORS AND RESTRICT THE MOVEMENT OF MATERIALS THAT COULD CARRY FIRE ANTS WHICH INCLUDE SOIL, TURF, POTTED PLANTS, MULCH, BALED HAY OR STRAW, ANIMAL MANURES, MINING OR QUARRY PRODUCTS. PENALTIES FOR NON-COMPLIANCE WITH MOVEMENT CONTROLS WITHIN FIRE ANT BIOSECURITY ZONES APPLY UNDER THE BIOSECURITY ACT 2014. CONTRACTORS AND THEIR SUB-CONTRACTORS WILL BE LIABLE FOR BREACHES AND ARE TO FOLLOW LEGISLATION AT ALL TIMES.
- CULTURAL HERITAGE: ABORIGINAL CULTURAL IS PROTECTED UNDER THE CULTURAL HERITAGE ACT 2003. AS PER THE LEGISLATION, CONTRACTORS CARRYING OUT ACTIVITIES MUST TAKE ALL REASONABLE AND PRACTICABLE MEASURES FOR ENSURING ACTIVITIES ARE MANAGED TO AVOID OR MINIMISE HARM TO ABORIGINAL CULTURAL HERITAGE. CONTRACTORS ARE TO FULFIL THIS DUTY OF CARE AT ALL TIMES.

SAFETY IN DESIGN (SID) NOTES

- CONTRACTOR IS TO COMPLETE A HAZARD AND RISK ASSESSMENT PRIOR TO CONSTRUCTION AND PROPOSE SUITABLE ACTION/RESPONSE TO ADDRESS ALL HIGH AND ABNORMAL RISK ITEMS
- TEMPORARY WARNING DEVICES TO BE ERECTED AS PER "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND RELEVANT COUNCIL GUIDELINES TO ENSURE SAFE WORKING CONDITIONS FOR WORKERS, PEDESTRIANS AND PASSING TRAFFIC.
- TRY TO AVOID WORKING IN CONFINED SPACES. IF CONFINED SPACES WORK CAN'T BE AVOIDED PROVIDE SAFE WORK METHOD STATEMENT (SWMS) ADDRESSING MITIGATION OF RISKS. PROVIDE ADEQUATE SIGNAGE TO TEMPORARY AND PERMANENT CONFINED SPACES TO AS2865
- THE CONTRACTOR IS TO ENSURE THEY HOLD ALL RELEVANT TICKETS, CERTIFICATION AND PERMITS SUITABLE FOR THE PROPOSED WORKS PRIOR TO CONSTRUCTION
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL EXISTING SERVICES ON SITE PRIOR TO CONSTRUCTION AND LAYING OF ANY SERVICES. ANY LIABILITY RESULTING FROM DAMAGE TO EXISTING SERVICES WILL BE BORNE BY THE CONTRACTOR.
- CONTRACTOR TO BEWARE EXISTING GAS PIPELINES IN VICINITY OF WORKS, AND ENSURE AUTHORITY REQUIREMENTS ARE ADDRESSED DURING CONSTRUCTION ACTIVITIES
- ALL TRENCH EXCAVATION AND CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE COMMONWEALTH WORK HEALTH AND SAFETY ACT 2011.
- CONSTRUCTION BARRIERS THAT CONTRIBUTE TO SAFETY, SUCH AS HANDRAILS AND TOE BOARDS, FALL ARREST SYSTEMS ACCESS STAIRS ETC AS EARLY AS POSSIBLE. PROVIDE SAFETY BARRIERS AT EDGES OF OPENINGS AND ELEVATED AREAS.
- REVIEW ADEQUACY OF WORKING SPACE AVAILABLE FOR CONSTRUCTION ACTIVITIES. ENSURE SEPARATION OF PLANT AND PERSONNEL/PROPERTY ON SITE, INCLUDING MOVEMENT OF BOTH
- PROVIDE PROTECTION TO AND SEPARATION FROM ELECTRICAL OVERHEAD WIRING SYSTEMS DURING CONSTRUCTION.
- ALL TRENCHES MORE THAN 1.5m DEEP (BASE OF TRENCH TO TOP OF TRENCH OR TOP OF SPOIL ADJACENT TO TRENCH - WHICHEVER IS GREATER) ARE TO BE SHORED OR BENCHED OR BATTERED AT 1:1 MAX. WRITTEN RISK ASSESSMENTS AREA ADVISED FOR ACCESS TO OPEN EXCAVATIONS AND SAFE ACCESS IS TO BE MAINTAINED FOR ALL PERSONS IN THE TRENCH AT ALL TIMES IN CASE OF INUNDATION OR WALL COLLAPSE/ENGULFMENT
- LOCATE STOCKPILES AWAY FROM BATTER/EXCAVATIONS AND EXISTING SERVICES
- SEEK ADVICE FROM SUITABLY QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION ACTIVITIES ADJACENT TO OPEN EXCAVATIONS AND/OR RETAINING WALLS

ENGINEERING INSPECTIONS, AS-CONSTRUCTED DOCUMENTATION & CERTIFICATION

THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN COMMUNICATION WITH THE CLIENT AND MELIORA ENGINEERING REGARDING PROGRAM AND TIMING OF CONSTRUCTION PHASE. ALL COMPONENTS OF CIVIL WORKS MAY BE SUBJECT TO INSPECTION REQUIREMENTS. THE CONTRACTOR IS TO ALLOW FOR THE BELOW INSPECTIONS AT A MINIMUM. THE CONTRACTOR IS TO PROVIDE NOTICE IN WRITING TO MELIORA ENGINEERING (AND CC IN CLIENT TO EMAILS) A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO INSPECTIONS.

THE FOLLOWING INSPECTIONS (WITNESS HOLD POINTS) ARE REQUIRED FOR THE PROJECT:

- PRE-START MEETING
- EXISTING SURFACE PROOF ROLL (POST STRIPPING) PRIOR TO FILLING UNDER PAVEMENTS
- CIVIL DRAINAGE PIPES IN TRENCH, PRIOR TO BACKFILL
- CONCRETE DRIVEWAY REINFORCEMENT INSPECTION
- CIVIL WORKS PRACTICAL COMPLETION INSPECTION

IN ADDITION TO FACILITATING ENGINEERING INSPECTIONS, THE CONTRACTOR IS TO MAINTAIN COMPREHENSIVE CONSTRUCTION RECORDS (PHOTOS, AS-CONSTRUCTED SURVEY, MATERIAL DOCKETS ETC) AND IS TO ISSUE TO MELIORA ENGINEERING AT THE END OF EACH WEEK.

PLEASE NOTE THAT RPEQ CERTIFIED CONSTRUCTION CERTIFICATION CANNOT BE PROVIDED WHERE MELIORA HAS NOT ATTENDED INSPECTIONS AND ADEQUATE AS-CONSTRUCTED DOCUMENTATION HAS NOT BEEN SUPPLIED. CONTRACTOR IS LIABLE FOR ALL COSTS & RE-WORK REQUIRED WHERE ADEQUATE CONSTRUCTION INSPECTIONS/RECORDS HAVE NOT BEEN FACILITATED & SUPPLIED.

GEOTECHNICAL SUPERVISION & CERTIFICATION

WHERE EARTHWORKS FILLING IS REQUIRED UNDER STRUCTURES, LEVEL 1 CERTIFICATION IS TO BE PROVIDED BY A GEOTECHNICAL ENGINEERING TO CONFIRM FIT FOR USE TO SATISFY STRUCTURAL ENGINEERING REQUIREMENTS. FOR FURTHER INFORMATION AND REQUIREMENTS FOR GEOTECHNICAL INVOLVEMENT, REFER TO NOTES ON EARTHWORKS LAYOUT PLAN.

MANDATORY REFERENCE DOCUMENTATION

ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT COUNCIL (LOCAL AUTHORITY) DEVELOPMENT (DA) CONDITIONS, AS WELL AS THE WATER AUTHORITY CONDITIONS. ALL RELEVANT AUTHORITY APPROVALS AND CONDITIONS ARE TO BE REVIEWED (AND REQUESTED IF NOT ALREADY RECEIVED) BY CONTRACTOR PRIOR TO CONSTRUCTION.

READ THESE DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL AND OTHER ENGINEERING DRAWING, SPECIFICATIONS AND WITH ALL OTHER WRITTEN INSTRUCTIONS ISSUED. REFER TO ARCHITECTURAL DRAWINGS FOR SETTING OUT AND DETAIL DIMENSIONS. IN CASE OF DISCREPANCY, PRECEDENCE IS GIVEN TO DRAWINGS, THEN NOTES, THEN SPECIFICATION. REFER DISCREPANCIES TO SUPERINTENDENT BEFORE PROCEEDING WITH WORK.

FURTHER, ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH

- COUNCIL (LOCAL AUTHORITY) GUIDELINES, PLANNING SCHEME POLICIES (PSPs), SPECIFICATIONS AND STANDARD DRAWINGS
- RELEVANT LEGISLATION INCLUDING (BUT NOT LIMITED TO):
 - WORK HEALTH & SAFETY ACT 2011
 - ENVIRONMENTAL PROTECTION & BIODIVERSITY ACT 1999
 - BIOSECURITY ACT 2015. REFER TO WWW.DAF.QLD.GOV.AU
 - SUSTAINABLE PLANNING ACT 1999
- RELEVANT AUSTRALIAN STANDARDS INCLUDING (BUT NOT LIMITED TO):
 - AS3500.3-2018 (PLUMBING & DRAINAGE)
 - AS2865-2009 (CONFINED SPACES)
 - AS3798-2007 (EARTHWORKS)
 - AS/NZS 2890.1-2004 (PARKING FACILITIES)
 - AS1742.3-2019 (SIGNAGE & LINE MARKING) - SS BY MUTCD
 - AS4049.2-2005 (PAVEMENT MARKING MATERIALS)
- INTERNATIONAL EROSION CONTROL AUTHORITY (IECA) & STANDARD DRAWINGS
- AUSTROADS DESIGN MANUALS & STANDARD DRAWINGS
- MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
- SOUTH EAST QUEENSLAND WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE (OR THE SEQ CODE)

COUNCIL DA REFERENCE #: 9406/2022/RAL

NOTE
ALL PLANS TO BE READ IN CONJUNCTION WITH ALL INFORMATION AND NOTES ON DRG. No. C01 AND ALL RELEVANT SPECIFICATIONS



REV	DESCRIPTION	DATE	DRAWN	APPR.
01	ISSUE FOR APPROVAL	17.02.23	SM	MB

DRAWN: FEB 2023
DESIGNED: FEB 2023
APPROVED: RPEQ SIGNATURE
MBLYTH
RPEQ No. 21258
DATE: FEB 2023



23 McLEOD STREET
HERSTON, QLD 4006
PHONE: 0429970345
MELIORA ENGINEERING ALL RIGHTS RESERVED
THIS DOCUMENT IS PROVIDED BY MELIORA ENGINEERING SOLELY FOR THE USE BY THE CLIENT IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE CONTRACT. MELIORA ENGINEERING DOES NOT AND SHALL NOT ASSUME ANY RESPONSIBILITY OR LIABILITY TO ANY THIRD PARTY ARISING OUT OF USE OR MISUSE OF THIS DOCUMENT BY THE CLIENT OR ANY OTHER PARTY.

CLIENT: PROSPERITY CAPITAL PRINCIPLES PL
PROJECT: 11 SHANAHAN PARADE, REDBANK PLAINS

DRAWING TITLE: LOCALITY, SCHEDULE & GENERAL NOTES
EXISTING FEATURES LEGEND







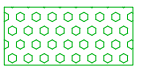
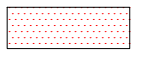

MELIORA JOB No. 2270

C01 01
DWG No REVISION



FOR APPROVAL

LEGEND - EROSION AND SEDIMENT CONTROL

- SEDIMENT FENCE 
- DIVERSION DRAIN (CLEAN WATER) 
- DIVERSION DRAIN (DIRTY WATER) 
- SEDIMENT BARRIER 
- CHECK DAM 
- KERB SANDBAGS 
- SITE ACCESS 
- DEMOLITION AREA / ITEM 
- SEDIMENT TRENCH / BASIN 

NOTE: FOR CONTOURS, BOUNDARIES & EXISTING FEATURES LEGEND REFER TO DRG No. C01

EROSION AND SEDIMENT CONTROL NOTES

1. REFER COUNCIL STANDARDS FOR FURTHER EROSION AND SEDIMENT CONTROL DETAILS AND NOTES. THIS SUPERSEDES ANY NOTES OR DETAILS SHOWN ON DESIGN DRAWINGS.
2. THE ENVIRONMENTAL PROTECTION AND BIODIVERSITY ACT 1999 PLACES A LEGAL RESPONSIBILITY UPON ALL PERSONS WHO CAUSE LAND DISTURBANCE TO MINIMISE OR PREVENT ENVIRONMENTAL HARM. PROPERTY DEVELOPERS, CONTRACTORS AND CONSULTANTS ARE ALSO SUBJECT TO REQUIREMENTS UNDER THE SUSTAINABLE PLANNING ACT 2009. THIS INCLUDES DEVELOPMENT CONDITIONS REQUIRING ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES TO BE IMPLEMENTED AND MAINTAINED ON CONSTRUCTION SITES.
2. ALL DISTURBED SURFACES TO BE LANDSCAPED IN ACCORDANCE WITH LANDSCAPE CONSULTANTS DRAWINGS OR OTHERWISE STABILISED USING TURF OR HYDROMULCH
3. CONCRETE WASHOUT TO NOT BE UNDERTAKEN ON SITE, OR TO BE UNDERTAKEN ON A DESIGNATED LOCATION. CONTRACTOR TO ESTABLISH CONCRETE WASHOUT AS PER IECA GUIDELINES.
4. CONTRACTOR TO ALLOW FOR PROVISION OF ALL REQUIRED EROSION AND SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH IECA AND LOCAL COUNCIL POLICIES AND GUIDELINES
5. SEDIMENT RELEASE GUIDELINES:
 - 5.1. ALL RELEASES OF STORMWATER CAPTURED ONSITE, UNLESS OTHERWISE NOTED IN THIS STANDARD, MUST NOT EXCEED THE FOLLOWING LIMITS:
 - 5.1.1. 50mg/L OF TOTAL SUSPENDED SOLIDS (TSS) AS A MAXIMUM CONCENTRATION;
 - 5.1.2. TURBIDITY (NTU) VALUE LESS THAN 10% ABOVE BACKGROUND;
 - 5.1.3. pH VALUE MUST BE IN THE RANGE 6.5 TO 8.5 EXCEPT WHERE, AND TO THE EXTENT THAT, THE NATURAL RECEIVING WATERS LIE OUTSIDE THIS RANGE
 - 5.2. THE CONCENTRATION OF TSS RELEASED BY DEWATERING MAY ONLY EXCEED 50mg/L WHERE IT CAN BE DEMONSTRATED AND SUPPORTED THROUGH DOCUMENTATION THAT:
 - 5.2.1. FURTHER SIGNIFICANT RAINFALL IS FORECAST TO OCCUR BEFORE THE TSS CONCENTRATION IS LIKELY TO BE REDUCED TO 50mg/L;
 - 5.2.2. RELEASING A HIGHER CONCENTRATION OF TOTAL SUSPENDED SOLIDS WILL RESULT IN A BETTER ENVIRONMENTAL OUTCOME BY PROVIDING STORAGE FOR THE CAPTURE AND TREATMENT OF RUN-OFF FROM THE IMMINENT RAINFALL AND RUN-OFF.
 - 5.2.3. ALL REASONABLE AND PRACTICABLE STEPS HAVE BEEN TAKEN TO TREAT THE WATER WITHIN BEST-PRACTICE TIME FRAMES;
 - 5.2.4. FLOCCULANT HAS BEEN APPROPRIATELY APPLIED AND THE CONCENTRATION OF TSS IN THE CAPTURED WATER HAS ALREADY SIGNIFICANTLY DECREASED
 - 5.3. FOR ALL OTHER STORMWATER RELEASES, FLOWS AND DISCHARGES FROM THE SITE, THE RELEASE LIMIT PRESCRIBED IN (5.1) ABOVE MUST NOT BE EXCEEDED UNLESS THE DEVELOPMENT IS IN FULL COMPLIANCE WITH THIS STANDARD.

NOTE: IT IS RECOMMENDED THAT A SITE-SPECIFIC RELATIONSHIP BETWEEN TURBIDITY AND SUSPENDED SOLIDS IS DETERMINED FOR EACH SEDIMENT BASIN. ONCE A CORRELATION BETWEEN SUSPENDED SOLIDS AND TURBIDITY HAS BEEN ESTABLISHED FOR A SEDIMENT BASIN, TESTING STORMWATER FOR COMPLIANCE WITH RELEASE LIMITS, PRIOR TO RELEASE, CAN BE DONE ON SITE WITH A TURBIDITY TUBE OR CALIBRATED TURBIDITY METER. THIS HAS THE ADVANTAGE OF PROVIDING IMMEDIATE ASSESSMENT TO JUSTIFY A RELEASE RATHER THAN WAITING FOR LABORATORY RESULTS TO CONFIRM CONCENTRATION LEVELS AND COMPLIANCE. NOTE THAT POST-RELEASE TSS VALIDATION IS APPROPRIATE TO DEMONSTRATE THAT THE NTU/TSS CORRELATION IS BEING MAINTAINED.

NOTE: BACKGROUND REFERS TO RECEIVING WATER QUALITY IMMEDIATELY UPSTREAM OF THE SITE LOCATION RELEASE POINT AT THE TIME OF RELEASE. WHERE THERE IS NO IMMEDIATE UPSTREAM RECEIVING WATER AT THE LOCATION AND TIME OF RELEASE, THEN THE TURBIDITY RELEASE LIMIT (NTU) WILL BE EQUAL TO THE RELEASE LIMIT FOR 50mg/L TOTAL SUSPENDED SOLIDS (TSS) BASED UPON THE ONSITE CORRELATION BETWEEN TSS AND NTU.

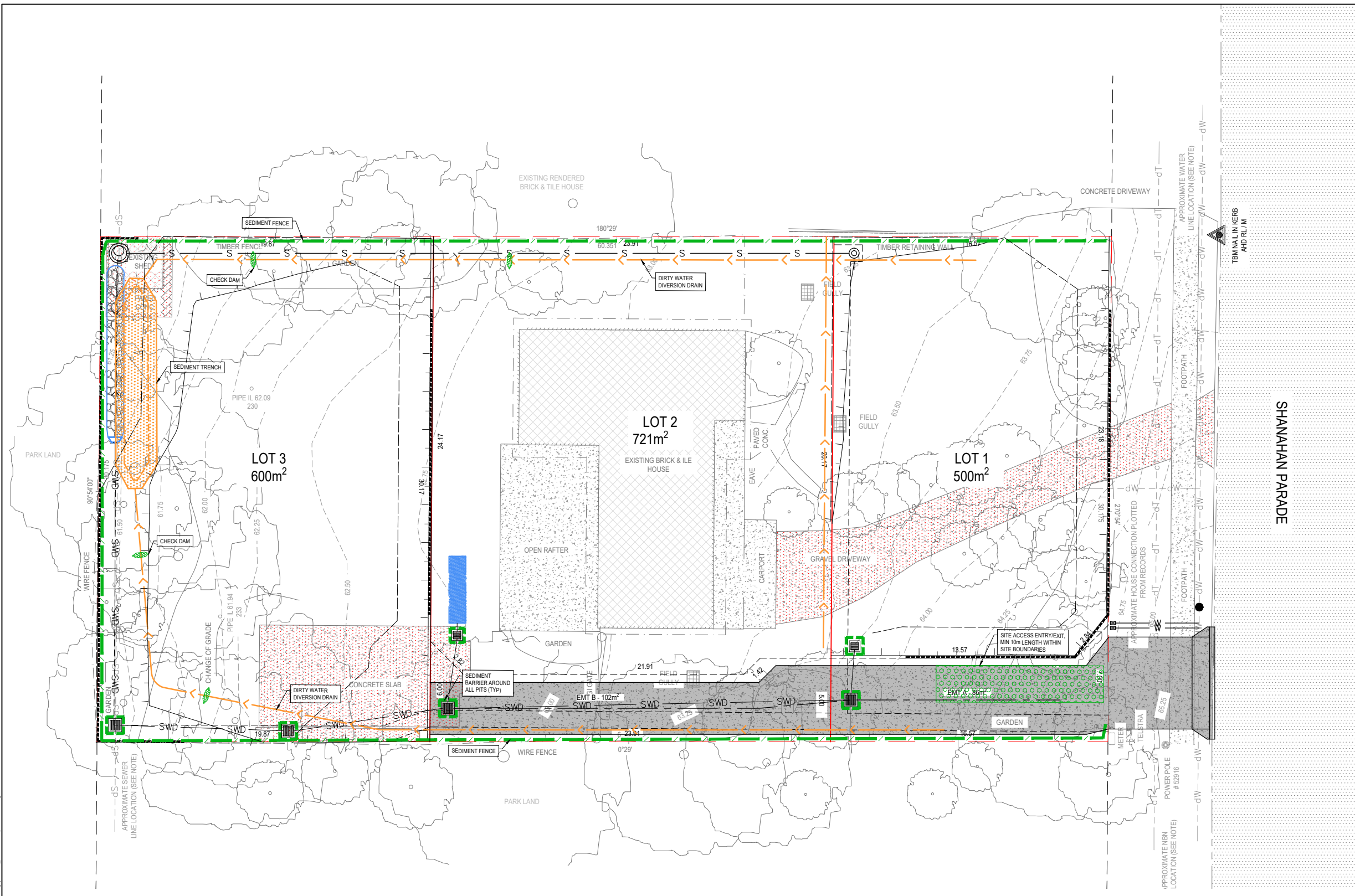
GENERAL NOTES & SAFETY IN DESIGN
ALL WORKS TO BE STRICTLY IN ACCORDANCE WITH ALL NOTES ON C01 U.N.O

DETAILS REFERENCE
FOR EROSION AND SEDIMENT CONTROL DETAILS REFER DWG No C15 AND C16

CONTRACTOR RESPONSIBILITY
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP AND IMPLEMENT A SUITABLE EROSION AND SEDIMENT CONTROL PROGRAM IN ACCORDANCE WITH THE CURRENT LOCAL COUNCIL STANDARDS AND INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA) GUIDELINES AND STANDARD DETAILS. EROSION AND SEDIMENT CONTROL DESIGNS MAY NEED TO BE AMENDED IN RESPONSE TO SITE CONDITIONS, IN WHICH CASE THE CONTRACTOR IS TO 'RED PEN MARK UP' THIS PLAN AND TO ENSURE THEY HAVE AN ADEQUATE COMPLIANT SET OF EROSION AND SEDIMENT CONTROL PLANS ONSITE AT ALL TIMES DURING CONSTRUCTION.

- REFERENCE PRECEDENCE**
REFER TO REQUIREMENTS OF THE FOLLOWING MANDATORY REFERENCE DOCUMENTS (IN ORDER OF PRECEDENCE). REQUEST IF NOT RECEIVED DURING TENDER. CONTRACTOR WILL BE LIABLE FOR NON-COMPLIANT CONSTRUCTION. RAISE DISCREPANCIES WITH SUPERINTENDENT PRIOR TO CONSTRUCTION.
1. AUTHORITY APPROVED PLANS/DOCUMENTS
 2. AUTHORITY APPROVAL CONDITIONS
 3. RECOMMENDATIONS WITHIN SPECIALIST REPORTS INCLUDING VEGETATION MANAGEMENT PLANS
 4. AUTHORITY STANDARDS, GUIDELINES AND POLICY
 5. DESIGN STANDARD & GUIDELINES (IECA)
 6. PROJECT DRAWINGS, NOTES AND DETAILS (INCLUDING ALL MELIORA CIVIL DRAWINGS)
 7. ENGINEERING SPECIFICATIONS (IF PUBLISHED)

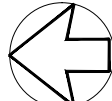
FOR APPROVAL




NOTE
ALL PLANS TO BE READ IN CONJUNCTION WITH ALL INFORMATION AND NOTES ON DRG. No. C01 AND ALL RELEVANT SPECIFICATIONS



REV	DESCRIPTION	DATE	DRAWN	APPR.
01	ISSUE FOR APPROVAL	17.02.23	SM	MB

NORTH POINT 

SCALE BAR(S)
0 1 2 3 4 5 6m
SCALE 1:125 @ A1

DRAWN: FEB 2023
DESIGNED: FEB 2023
APPROVED: RPEQ SIGNATURE 
RPEQ No. 21258
DATE: FEB 2023

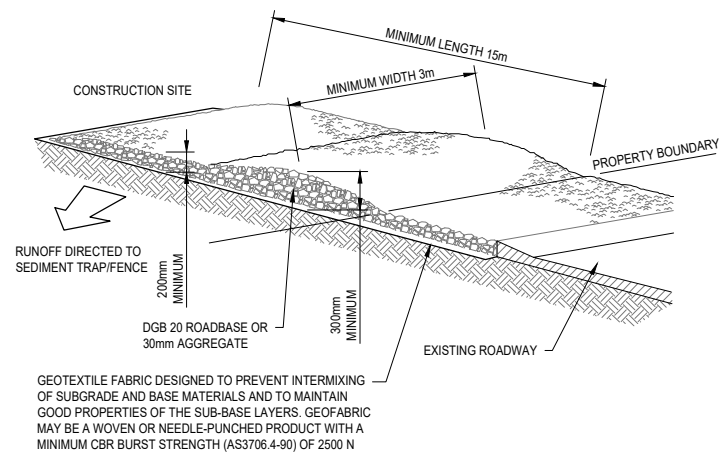
MELIORA CONSULTING ENGINEERS
21 McLEOD STREET
HERSTON, QLD 4006
PHONE: 0429970345

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CLIENT: PROSPERITY CAPITAL PRINCIPLES PL
PROJECT: 11 SHANAHAN PARADE, REDBANK PLAINS

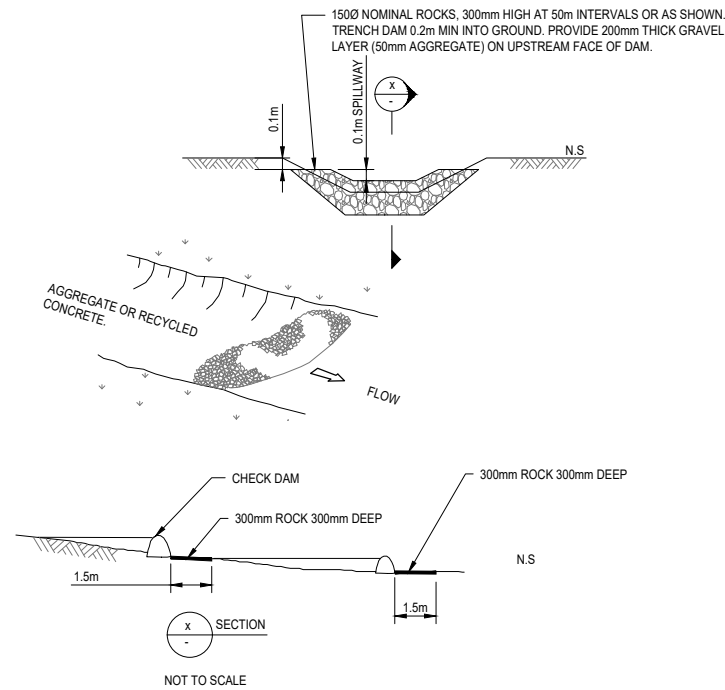
DRAWING TITLE: EROSION & SEDIMENT CONTROL LAYOUT PLAN

MELIORA JOB No. **2270**
C10
DWG No. **01**
REVISION



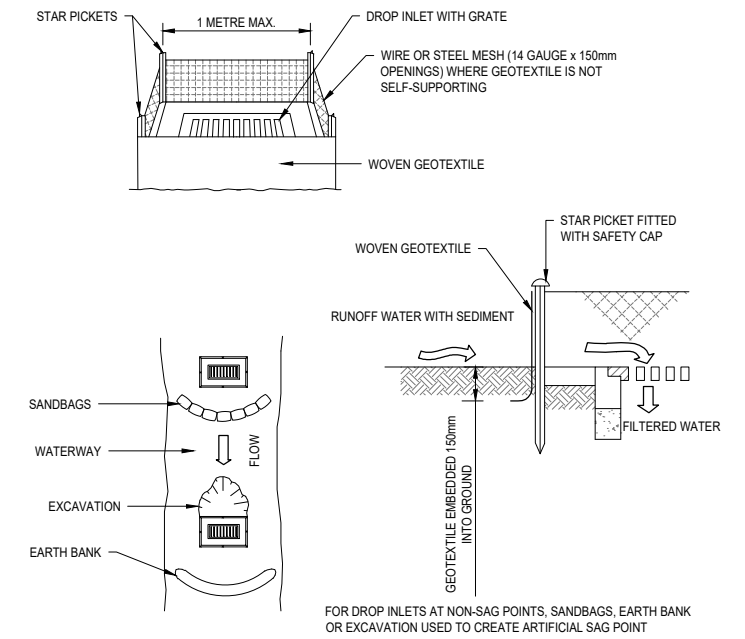
TYPICAL STABILISED SITE ACCESS DETAIL

IECA STANDARD DRAWING REFERENCE - TAKES PRECEDENCE
REFER TO IECA STANDARD DRAWING SD-EX103 WHICH SUPERSEDES
ALL NOTES AND DETAILS WITHIN THE DETAIL ABOVE



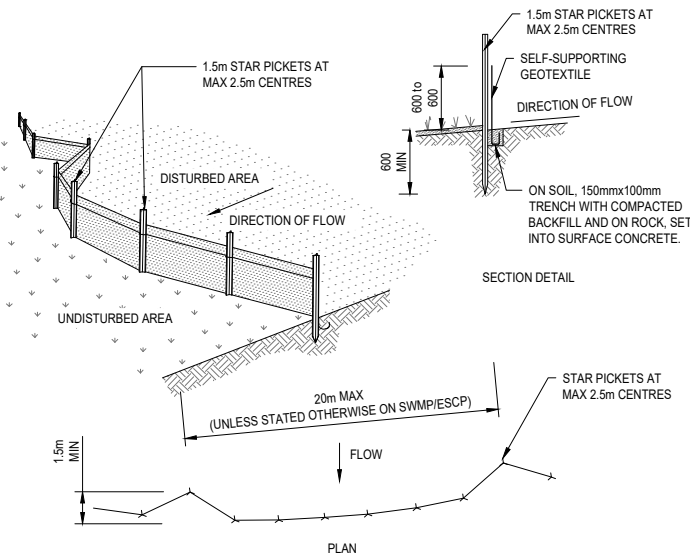
TYPICAL ROCK CHECK DAM DETAILS

IECA STANDARD DRAWING REFERENCE - TAKES PRECEDENCE
REFER TO IECA STANDARD DRAWING SD-RC001 WHICH SUPERSEDES
ALL NOTES AND DETAILS WITHIN THE DETAIL ABOVE



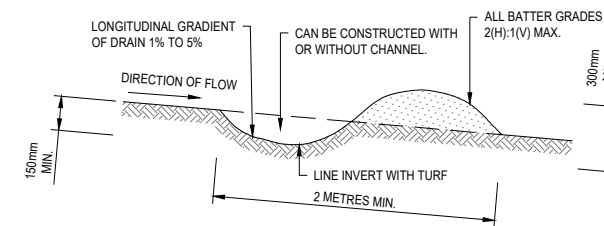
TYPICAL GEOTEXTILE INLET FILTER DETAIL

- CONSTRUCTION NOTES
- FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
 - IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
 - DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.



TYPICAL SEDIMENT FENCE DETAIL

IECA STANDARD DRAWING REFERENCE - TAKES PRECEDENCE
REFER TO IECA STANDARD DRAWING SD-SF01 WHICH SUPERSEDES
ALL NOTES AND DETAILS WITHIN THE DETAIL ABOVE



TYPICAL EARTH BANK - LOW FLOW

IECA STANDARD DRAWING REFERENCE - TAKES PRECEDENCE
REFER TO IECA STANDARD DRAWING SD-CD01 TO CD04 WHICH
SUPERSEDES ALL NOTES AND DETAILS WITHIN THE DETAIL ABOVE

LAYOUT & NOTES REFERENCE
FOR E&S LAYOUT PLAN REFER DWG No C10.

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 - AUTHORITY STANDARDS, GUIDELINES AND POLICY
 - DESIGN STANDARD & GUIDELINES (IECA)
 - PROJECT DRAWINGS, NOTES AND DETAILS (INCLUDING ALL MELIORA CIVIL DRAWINGS)
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FOR APPROVAL



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REV	DESCRIPTION	DATE	DRAWN	APPR.
01	ISSUE FOR APPROVAL	17.02.23	SM	MB

NORTH POINT	SCALE BAR(S)
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DESIGNED: FEB 2023	
APPROVED: RPEQ No. 21258 DATE: FEB 2023	RPEQ SIGNATURE <i>[Signature]</i>

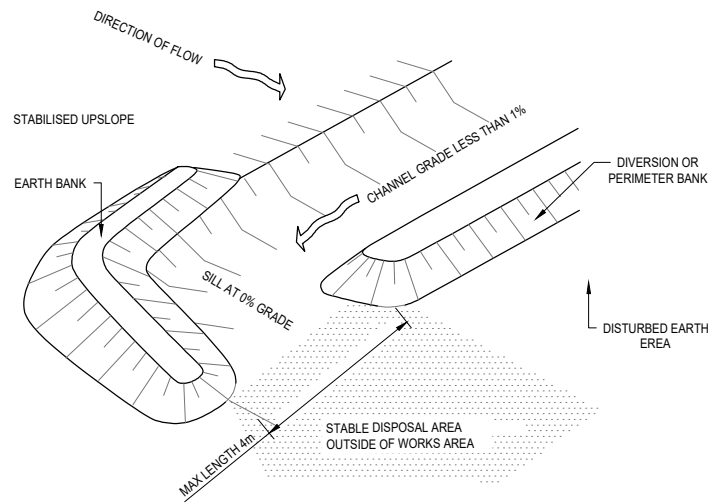
21 McLEOD STREET
HERSTON, QLD 4006
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MELIORA CONSULTING ENGINEERS
ABN 46 533 772 833
E: INFO@MELIORA.COM

CLIENT: PROSPERITY CAPITAL PRINCIPLES PL
PROJECT: 11 SHANAHAN PARADE, REDBANK PLAINS

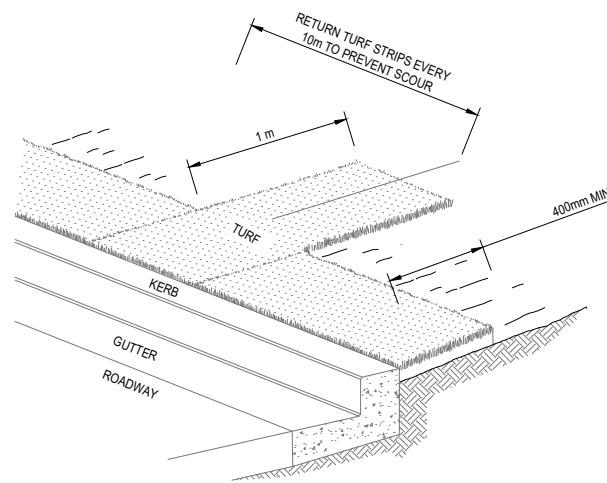
DRAWING TITLE: EROSION & SEDIMENT CONTROL DETAILS PLAN SHEET 1 OF 2
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MELIORA JOB No. 2270
DWG No. C15
REVISION 01



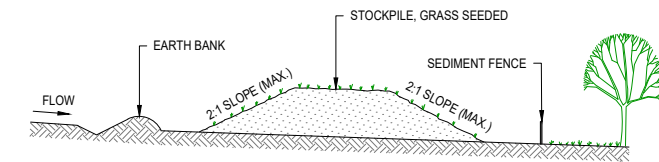
TYPICAL DIVERSION DRAIN LEVEL SPREADER DETAIL

IECA STANDARD DRAWING REFERENCE - TAKES PRECEDENCE
REFER TO IECA STANDARD DRAWING SD-LS01 WHICH SUPERSEDES
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TYPICAL KERBSIDE TURF STRIP DETAIL

IECA STANDARD DRAWING REFERENCE - TAKES PRECEDENCE
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CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS (IECA STANDARD DRAWING SD-CD01) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (IECA STANDARD DRAWING SD-SF01) 1 TO 2m DOWNSLOPE.

TYPICAL STOCKPILES DETAIL

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21 McLEOD STREET
HERSTON, QLD 4006
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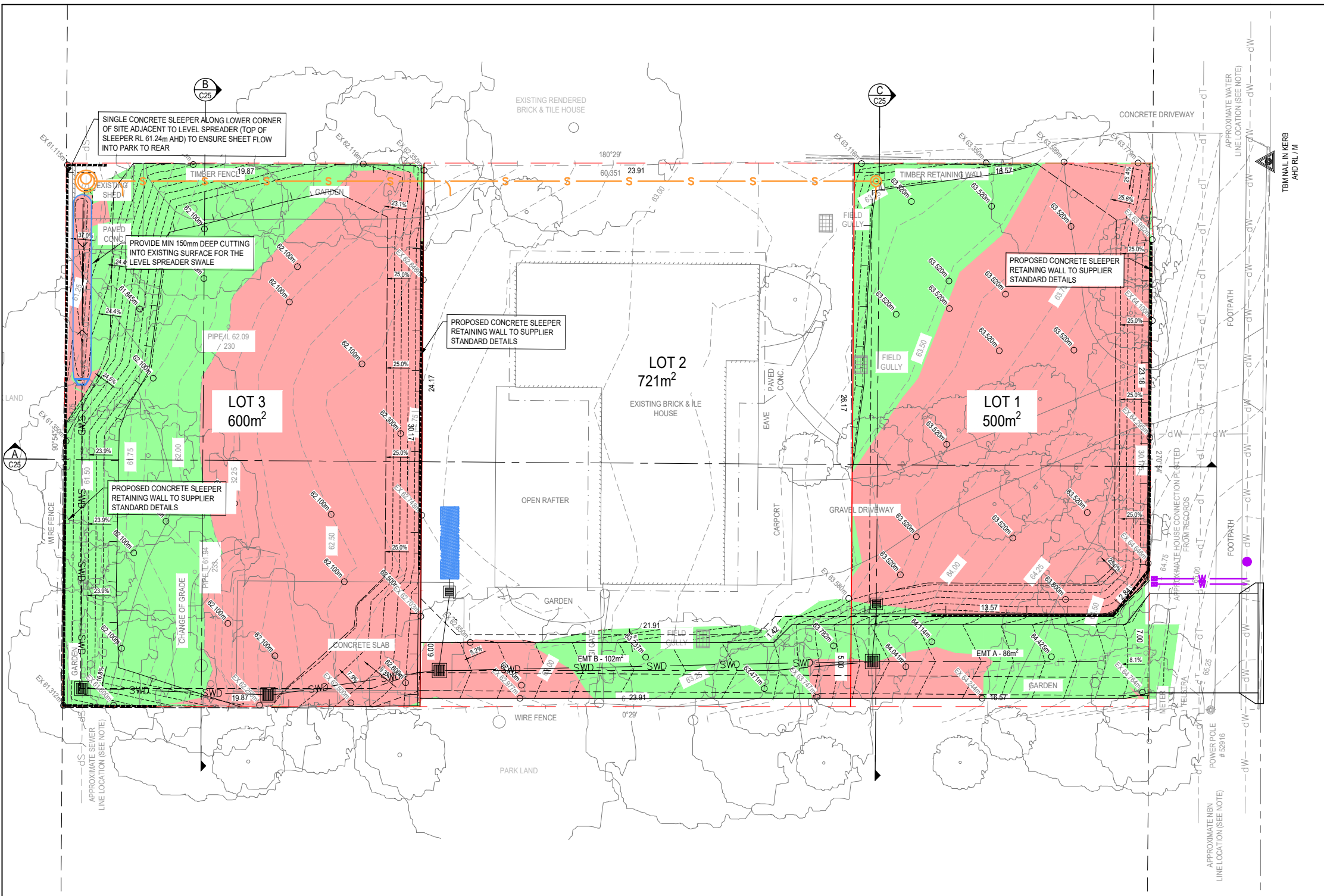
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CLIENT: PROSPERITY CAPITAL PRINCIPLES PL
PROJECT: 11 SHANAHAN PARADE, REDBANK PLAINS

DRAWING TITLE: EROSION & SEDIMENT CONTROL DETAILS PLAN SHEET 2 OF 2
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MELIORA JOB No.	2270
DWG No	C16
REVISION	01

Feb 16, 2023 2:00pm C:\Users\PROJECT PLUS\Desktop\2270 11 SHANAHAN PARADE REDBANK PLAINS\DWG\2270-01.dwg



- ### GEOTECHNICAL NOTES
- EARTHWORKS CONTRACTOR IS TO ALLOW FOR ALL RECOMMENDATIONS WITHIN GEOTECHNICAL REPORT BY X, DATED X WHICH IS TO BE REQUESTED AND REVIEWED PRIOR TO PRICING IF NOT ALREADY RECEIVED BY CONTRACTOR. WHERE DISCREPANCIES EXIST BETWEEN GEOTECHNICAL RECOMMENDATIONS AND MELIORA CIVIL DOCUMENTS, THE CONTRACTOR IS TO RAISE SAME WITH MELIORA AND/OR THE SUPERINTENDENT FOR RESOLUTION PRIOR TO CONSTRUCTION. IT IS RECOMMENDED THAT THE GEOTECHNICAL CONSULTANT BE CONTACTED TO CONFIRM THE SOIL CONDITIONS PRIOR TO EARTHWORKS COMMENCING.
 - CONTRACTOR TO ALLOW FOR ALL COSTS ASSOCIATED WITH ROCK EXCAVATION WITHIN CONTRACT RATES.
 - CONTRACTOR TO ALLOW FOR ALL COSTS ASSOCIATED WITH THE REQUIRED CONSTRUCTION PHASE GEOTECHNICAL SUPERVISION, TESTING AND CERTIFICATION FOR THE PROJECT (IF NOT SUPPLIED BY THE PRINCIPAL).
 - ALL TEMPORARY AND FINAL BATTER SLOPES ARE TO BE INSPECTED AND APPROVED BY GEOTECHNICAL ENGINEER. CERTIFICATION OF LONG TERM STABILITY TO BE PROVIDED BY GEOTECHNICAL ENGINEER PRIOR TO PRACTICAL COMPLETION. RPEQ GEOTECHNICAL ENGINEER IS TO CONFIRM THAT ALL CONSTRUCTED CUT/FILL BATTERS AND RETAINING STRUCTURES ON THE SITE HAVE ACHIEVED ADEQUATE STABILITY WITH A LONG-TERM FACTOR OF SAFETY GREATER THAN OR EQUAL TO 1.5 AGAINST GEOTECHNICAL FAILURES.

- ### EARTHWORKS NOTES
- ALL EARTHWORKS TO BE ALLOW FOR REQUIREMENTS OF LOCAL AUTHORITY EARTHWORKS SPECIFICATIONS. IN LIEU OF LOCAL AUTHORITY SPECIFICATIONS EARTHWORKS COMPACTION TO BE MONITORED BY FIELD DENSITY TESTS CARRIED OUT IN ACCORDANCE WITH REQUIREMENTS OF AS3798
 - ALL EARTHWORKS UNDER BUILDING PADS TO BE CARRIED OUT IN ACCORDANCE WITH AS3798 APPENDIX B, GEOTECHNICAL TESTING AUTHORITY, 'LEVEL 1' SOIL ENGINEERING SUPERVISION. AT COMPLETION, THE NOMINATED GEOTECHNICAL TESTING AUTHORITY SHALL PROVIDE CERTIFICATION THAT ALL GENERAL EARTHWORKS OPERATIONS HAVE BEEN CARRIED OUT IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AND THE CONTROLLED FILL IS SUITABLE FOR ULTIMATE PURPOSE AND LOADING INTENDED FOR THE DEVELOPMENT
 - PROTECT IN-GROUND SERVICES AT ALL TIMES FROM CONSTRUCTION FLOODING, CONTRACTOR IS LIABLE FOR DAMAGE WHERE ANY EXCAVATION OR CONSTRUCTION WORKS ARE TO BE IN CLOSE PROXIMITY TO NEIGHBOURING LOT BOUNDARIES OR INFRASTRUCTURE. CONTRACTOR TO ALLOW IN COSTS TO PROVIDE ALL MEASURES NECESSARY TO MAINTAIN THE INTEGRITY OF EXISTING BOUNDARIES AND INFRASTRUCTURE. THIS MAY INCLUDE THE USE OF LOW VIBRATION EQUIPMENT, TRENCH SHORING ETC AS REQUIRED. CONTRACTOR IS LIABLE FOR FAILURE OF SLOPES AND DAMAGE TO NEIGHBOURING PROPERTY
 - GRASS AND TOPSOIL SHALL BE STRIPPED TO A MINIMUM DEPTH OF 100mm OVER THE EXTENT OF THE WORKS UNLESS DIRECTED OTHERWISE AND STOCKPILED FOR FUTURE USE AS NON-STRUCTURAL FILL IF REQUIRED, OR REMOVED FROM SITE AT CONTRACTORS COST. WHERE SITE TOPSOIL IS TO BE RESPREAD ON SITE, CONTRACTOR TO ALLOW TO SCREEN THE TOPSOIL OF ALL UNSUITABLE AND OVERSIZED MATERIAL. ALL UNSUITABLE MATERIAL GENERATED FROM SCREENING TO BE REMOVED FROM SITE AT CONTRACTORS EXPENSE.
 - IF DURING EARTHWORKS OPERATIONS (OR DURING PROOF ROLLING) UNSUITABLE MATERIAL (IE 'SOFT SPOTS') IS ENCOUNTERED, AS DEFINED IN SECTION 4 OF AS3798, THEN REMOVE AND REPLACE THIS MATERIAL PRIOR TO ANY FILLING OPERATION. SPECIFICATION FOR REPLACEMENT AS INSTRUCTED BY THE SUPERVISING GEOTECHNICAL ENGINEER.
 - FOLLOWING STRIPPING AND SUCCESSFUL SUBGRADE PROOF ROLL, COMPACT THE EXPOSED SUBGRADE OR LOOSE TOP LEVEL MATERIAL TO A MINIMUM 98% STANDARD MAXIMUM DRY DENSITY TO AS1289 5.1.1.
 - EARTHWORKS FILL AREAS SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY (AS 1289 5.1.1) IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS
 - ALL EARTHWORKS TO BE CARRIED OUT AT +/- 2% OPTIMUM MOISTURE CONTENT
 - IMPORTED GENERAL FILL MATERIAL SHALL BE SUPPLIED AND COMPACTED WHERE NECESSARY TO OBTAIN SUBGRADE/PLATFORM LEVEL. IMPORTED GENERAL FILL MATERIAL SHALL BE NATURAL EARTH AND ROCK, FREE OF CONTAMINANTS, NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIALS AND STONES GREATER THAN 150mm AND CAPABLE OF BEING COMPACTED INTO COHERENT FILLING TO THE SPECIFIED STANDARD. THE MATERIAL SHALL HAVE A LINEAR SHRINKAGE NOT GREATER THAN 8% AND A MINIMUM C.B.R. OF 15% (OR AS ADVISED BY GEOTECHNICAL ENGINEER)
 - ALL BATTERS TO BE KEYP/STEPS INTO EXISTING MATERIAL. SPECIFICATION TO BE REQUESTED IF NOT SIGHTED
 - THE CONTRACTOR IS TO ENSURE THAT THE SITE IS SELF-DRAINING THROUGHOUT THE EARTHWORKS OPERATIONS. DAMAGE RESULTING FROM EXPOSURE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE
 - ADEQUATE SAFETY FENCING TO BE APPLIED TO BATTERS OR RETAINING WALLS IN FILL AS PER A.S. OR WH&S ACT 2011
 - ALL UNPAVED, DISTURBED AREAS AT COMPLETION OF EARTHWORKS ARE TO BE LANDSCAPED/STABILISED IN ACCORDANCE WITH LANDSCAPING PLANS OR OTHERWISE COVERED WITH TOPSOIL AND GRASS SEED
 - ACID SULPHATE SOILS FOUND ON SITE ARE TO BE TREATED IN ACCORDANCE WITH REQUIREMENTS IDENTIFIED IN RELEVANT ACID SULPHATE MANAGEMENT PLANS AND RELEVANT AUTHORITY GUIDELINES
 - LEVELS AND GRADIENTS AT JUNCTIONS WITH EXISTING WORKS MAY BE VARIED WITH SUPERINTENDENTS APPROVAL AS REQUIRED TO ACHIEVE SATISFACTORY INTERFACES
 - REFER TO EROSION AND SEDIMENT CONTROL PLANS BY MELIORA. CONTRACTOR IS TO ALLOW FOR PROVISION OF ALL REQUIRED EROSION AND SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH IECA AND LOCAL COUNCIL POLICIES AND GUIDELINES INCLUDING REQUIREMENTS AND PENALTIES WITHIN ENVIRONMENTAL PROTECTION & BIODIVERSITY ACT 1999
 - DUST CONTROL MEASURES ARE TO INCLUDE SPRAYING WATER ON UNPAVED ROADS, ACCESS TRACKS AND STOCKPILES AT A SUFFICIENT LEVEL TO SUPPRESS DUST GENERATION. ADDITIONALLY CONTRACTORS ARE TO COVER OR ENCLOSE STOCKPILES WHERE REASONABLY PRACTICAL TO RESTRICT DUST MOVEMENT

- ### LEVELS & SETOUT NOTES
- EARTHWORKS LEVELS SHOWN ARE FINISHED SURFACE LEVELS (TOP SIDE OF PAVEMENT AND TOPSOIL LAYERS)
 - ASSOCIATED EARTHWORKS LEVELS WILL NEED TO DRIVEWAY SLAB THICKNESS OF 150mm INCLUDING BEDDING SAND.
 - RETAINING WALL HEIGHT LABELS ARE TO FINISHED SURFACE LEVELS. STEPPING IS TO STRUCTURAL DESIGN BY OTHERS
 - REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING AND FOOTPATH SETOUT INFORMATION
 - CONTRACTOR TO CONFIRM SITE SURVEY STATION LOCATION AND BUILDING/PAD SETOUT LOCATIONS IN RELATION TO BOUNDARIES PRIOR TO CONSTRUCTION AND ADVISE SUPERINTENDENT IF ANY DISCREPANCIES/ANOMALIES FOUND
 - CONSTRUCTION TOLERANCES
 - TRENCH FOUNDATIONS, UNDER CONCRETE SLABS AND LOAD BEARING ELEMENTS: +/- 25mm
 - PAVEMENT SUBGRADES, CONFORM TO MRTSM - GENERAL EARTHWORKS, CLAUSE 6 - GEOMETRICS. SUBGRADE CROSSFALL TO BE WITHIN 0.5% OF ABSOLUTE DOCUMENTED CROSSFALLS
 - BATTERS: +/- 50mm AND NO STEEPER THAN THOSE SHOWN ON DRAWINGS AND ARE FULLY CONTAINED WITHIN THE SITE
 - OTHER GROUND SURFACES: +/- 50mm PROVIDED THE AREA REMAINS FREE DRAINING AND MATCHES ADJACENT CONSTRUCTION WHERE REQUIRED

- ### RETAINING NOTES
- ALL RETAINING WALL/TERRACING TO SATISFY COUNCIL CODES & STANDARDS. REFER TO COUNCIL'S FILLING AND EXCAVATION CODE FOR FURTHER DETAILS. RETAINING WALL FINISHES THAT PRESENT TO ADJOINING LAND ARE TO BE OF HIGH QUALITY APPEARANCE AND COMPATIBLE WITH SURROUNDING DEVELOPMENT.
 - ANY PROPOSED RETAINING WALL WORKS (INCLUDING REAR OF RETAINING WALL DRAINAGE INFRASTRUCTURE) MUST BE WHOLLY WITHIN THE PROPERTY BOUNDARY OF THE SUBJECT SITE.
 - ALL RETAINING WALLS SHOWN ON MELIORA DRAWINGS ARE INDICATIVE ONLY WITH FINAL RETAINING WALL STRUCTURAL DESIGN & CONSTRUCTION CERTIFICATION BY MANUFACTURER / INSTALLER OR BY RPEQ STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION
 - CONTRACTOR TO CONFIRM RETAINING WALL BACKSLOPE ANGLE (IF STEEPER THAN 1m4) WITH GEOTECHNICAL ENGINEER
 - CONTRACTOR TO ENSURE FREE DRAINING (NO FINES) BACKFILL MATERIAL IS IMPLEMENTED BEHIND ALL RETAINING WALLS U.N.O BY RPEQ STRUCTURAL ENGINEER. SOCKED SUBSOIL DRAINAGE (SLOTTED PIPE) TO BE PLACED BEHIND BASE OF RETAINING WALL AND IS TO DISCHARGE TO SUITABLE POINT OF DISCHARGE, OR ALLOW FOR WEEP HOLES AT BASE OF WALL. ENSURE NO VEHICLE LOADING WITHIN A HORIZONTAL DISTANCE FROM TOP OF WALL EQUAL TO THE HEIGHT OF THE WALL DURING OR AFTER CONSTRUCTION, U.N.O BY RPEQ ENGINEERED DESIGN WHICH ALLOWS FOR LOADING

SHANAHAN PARADE

- ### LEGEND - EARTHWORKS
- BULK SURFACE CONTOUR (MAJOR) --- 18.0
 - BULK SURFACE CONTOUR (MINOR) - - - - -
 - PROPOSED EARTHWORKS BATTER TOE - - - - -
 - PROPOSED EARTHWORKS BATTER TOP - - - - -
 - PROPOSED RETAINING WALL (CONC SLPR) ██████████
 - FINISHED LEVELS ○ 42.11m
 - EXISTING LEVELS ○ 42.11m
 - PROPOSED LEVEL SPREADER DEVICE >
- NOTE: FOR EXIST CONTOURS, BOUNDARIES & EXISTING FEATURES LEGEND REFER TO DRG No. C01

GENERAL NOTES & SAFETY IN DESIGN
ALL WORKS TO BE STRICTLY IN ACCORDANCE WITH ALL NOTES ON C01 U.N.O

SECTIONS & DETAILS REFERENCE
FOR EARTHWORKS SECTIONS & DETAILS REFER DWG No C25.

- ### VOLUME NOTES
- THE VOLUMES ARE PRELIMINARY AND ARE TO BE USED AS A GUIDE ONLY. CONTRACTORS TO ALLOW FOR CONTINGENCIES WHEN CALCULATING FINAL VOLUMES FOR INPUT INTO CIVIL CONTRACTS AND BOOs
 - TOPSOIL STRIP VOLUME ARE A SEPARATE VOLUME CALCULATION, TO BE CALCULATED BY CONTRACTOR AND ALLOWED FOR WITHIN CIVIL CONTRACT (EITHER RESPREAD ON SITE TO LANDSCAPE AREAS (IF SUITABLE) OR REMOVED FROM SITE)
 - VOLUMES DO NOT INCLUDE SOIL COMPACTION/SWELLING FACTORS, TRENCHING & FOOTING EXCAVATION VOLUMES, BATTER KEYING, REMOVAL AND REPLACEMENT OF UNSUITABLE SUBGRADE NOR RETAINING WALL BACKFILL SLOPES. CONTRACTOR IS TO ALLOW ADEQUATE CONTINGENCY IN CONTRACT TO CATER FOR FINAL EXPECTED VOLUMES IN CONSIDERATION OF ALL THE ABOVE.
 - REFER TO FINAL 'FOR CONSTRUCTION' STRUCTURAL DESIGN & LANDSCAPING DRAWINGS FOR FINAL PAD THICKNESS AND TOPSOIL DEPTHS ALLOW CONTINGENCY FOR ALL COSTS ASSOCIATED WITH ADJUSTED RESULTANT/FINAL EARTHWORKS VOLUMES.

- ### UNKNOWN GEOTECH PARAMETERS
- THE CONTRACTOR IS TO ALLOW ADEQUATE PROVISIONAL AMOUNTS FOR CONTINGENCIES FOR THE FOLLOWING UNKNOWN EARTHWORKS/GEOTECH PARAMETERS:
- SWELLING/COMPACTION FACTORS - UNKNOWN
 - SUBGRADE CBR - UNKNOWN
 - SUBGRADE SUITABLE FOR FILLING/PAVEMENT - UNKNOWN
 - IF CUT IS CONSIDERED SUITABLE FOR FILLING - UNKNOWN
 - TOPSOIL DEPTHS - UNKNOWN
 - ONSITE SOILS ARE DISPERSIVE/HIGHLY REACTIVE - UNKNOWN

PRELIMINARY VOLUMES

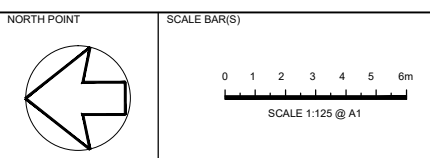
(100mm STRIPPED EXISTING SURFACE TO FINISHED SURFACE)
REFER 'VOLUME NOTES' ON THIS PAGE

CUT	195m³
FILL	77m³
BALANCE (CUT)	117m³

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PROJECT: 11 SHANAHAN PARADE, REDBANK PLAINS

DRAWING TITLE: EARTHWORKS LAYOUT PLAN & NOTES

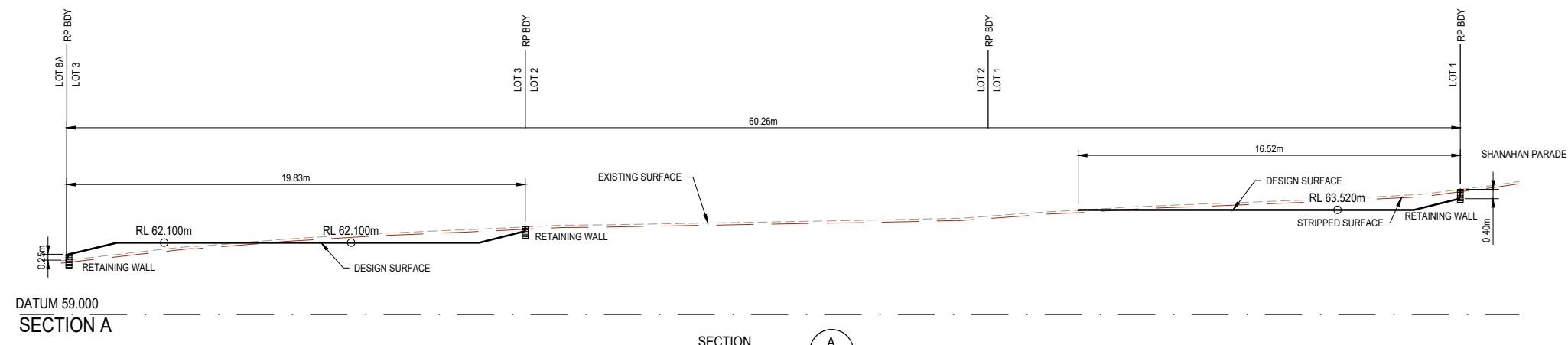
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MELIORA JOB No. **2270**

C20 DWG No. **01** REVISION

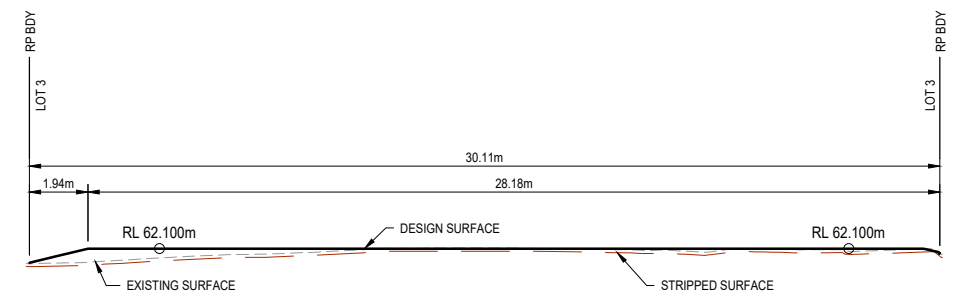
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LEGEND - SECTIONS	
DESIGN SURFACE	
EXISTING SURFACE	
STRIPPED SURFACE	
RETAINING STRUCTURES	



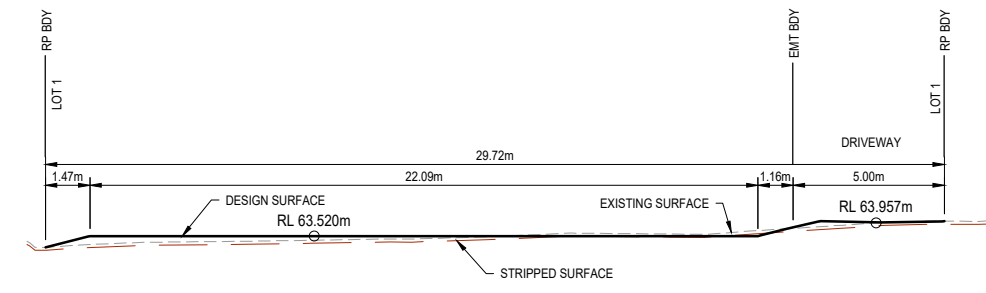
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SECTION A

SECTION A
SCALE 1:125



DATUM 59.000
SECTION B

SECTION B
SCALE 1:125



DATUM 59.000
SECTION C

SECTION C
SCALE 1:125

LAYOUT & NOTES REFERENCE
FOR EARTHWORKS LAYOUT PLAN REFER DWG No C20.

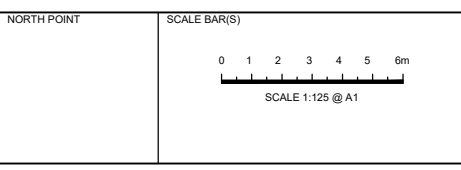
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APPROVED: RPEQ SIGNATURE
M.BLYTH
RPEQ No. 21258
DATE: FEB 2023

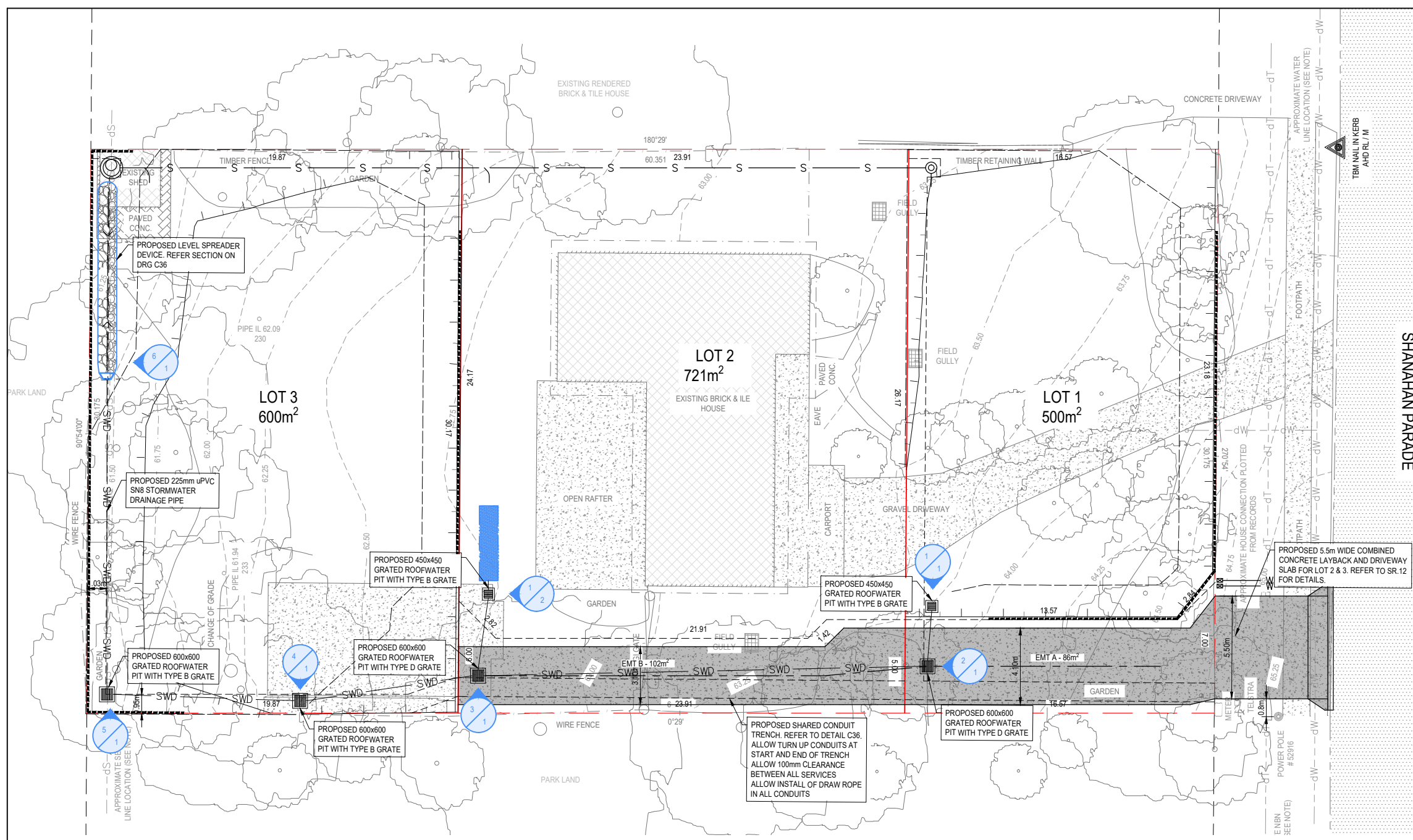


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CLIENT: PROSPERITY CAPITAL PRINCIPLES PL
PROJECT: 11 SHANAHAN PARADE, REDBANK PLAINS

DRAWING TITLE: EARTHWORKS SECTIONS

MELIORA JOB No. **2270**
C25
DWG No. **01**
REVISION



- ### ROADWORKS & DRAINAGE NOTES
1. ALL WORKS TO BE GENERALLY IN ACCORDANCE WITH COUNCIL APPROVED DEVELOPMENT APPLICATION DOCUMENTS AND ASSOCIATED APPROVAL CONDITIONS
 2. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH ALL RELEVANT APPROVED MANAGEMENT PLANS.
 3. REFER TO EROSION AND SEDIMENT CONTROL PLANS BY MELIORA. CONTRACTOR IS TO ALLOW FOR PROVISION OF ALL REQUIRED EROSION AND SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH IECA AND LOCAL COUNCIL POLICIES AND GUIDELINES AND IS TO BE AWARE OF THE REQUIREMENTS AND PENALTIES STIPULATED WITHIN ENVIRONMENTAL PROTECTION & BIODIVERSITY ACT 1999.
 4. CONTRACTOR IS TO SET OUT DRAINAGE PIPES & STRUCTURES ON SITE TO CROSS CHECK LEVELS WITH PROPOSED SURROUNDING FINISHED PAVEMENT/LANDSCAPING LEVELS PRIOR TO CONSTRUCTION TO ENSURE FLUSH. ALL GRATES AND LIDS SHALL SIT FLAT WITH ITS SURROUND AND NOT BE LOOSE OR MOVE UNDER WHEEL LOADS.
 5. ALL ROADWORKS & DRAINAGE EXTERNAL TO SITE BOUNDARIES AND/OR COUNCIL OWNED DRAINAGE PIPES INTERNAL TO THE SITE BOUNDARIES) CONSTRUCTION AND TESTING TO BE IN ACCORDANCE WITH IPSWICH CITY COUNCIL DEVELOPMENT GUIDELINES, DRAWINGS AND SPECIFICATIONS.
 6. SERVICE TRENCH (INCLUDING DRAINAGE) BACKFILL UNDER PAVEMENT TO BE COMPACTED TO 100% STANDARD DRY DENSITY (AS1289 5.1.1) IN LAYERS NOT EXCEEDING 150mm OF CBR 15 MATERIAL OR APPROVED EQUIVALENT. TRENCH BACKFILL IN ROADS TO BE MINIMUM CBR15 MATERIAL UP TO ROAD SUBGRADE LEVEL.
 9. STORMWATER DRAINAGE AND STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ONLY. CONTRACTOR TO CONSIDER CONSTRUCTION LOADINGS AND ENSURE NO EXCESSIVE LOADS ARE PLACED ON STORMWATER DRAINAGE OR STRUCTURES. CONTRACTOR TO REFER TO DRAINAGE PIPE/STRUCTURE MANUFACTURERS FOR CONSTRUCTION LOADING/COMPACTION REQUIREMENTS AND CONTRACTOR WILL BE LIABLE FOR DAMAGE/CRACKING TO DRAINAGE INFRASTRUCTURE CAUSED DURING CONSTRUCTION. DAMAGED INFRASTRUCTURE TO BE REPLACED IMMEDIATELY AT CONTRACTORS COST.
 8. ALL STORMWATER PIPES ARE TO BE MANUFACTURED TO RELEVANT AUSTRALIAN STANDARDS INCLUDING BUT NOT LIMITED TO AS4068 & AS1992.
 9. ALL PRECAST END STRUCTURES TO BE CONSTRUCTED WITH REINFORCED CONCRETE END WALL.
 10. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS TO CONFIRM LOCATION AND LEVEL OF EXISTING STORMWATER DRAINAGE OUTLET INFRASTRUCTURE WHERE PROPOSED DRAINAGE NETWORK CONNECTS TO EXISTING
 11. CONTRACTOR TO NOTIFY THE SUPERINTENDENT OF ANY UNSUITABLE FOUNDING MATERIAL WITHIN DRAINAGE TRENCH OR STORMWATER STRUCTURES AND AVOID DIRECTION PRIOR TO LAYING OF PIPES.
 12. ALL STORMWATER GRATES/LIDS WITHIN TRAFFICABLE AREAS TO BE CLASS 'D' IN ACCORDANCE WITH AS3396, AND CLASS 'B' WHERE PROTECTED FROM VEHICLE LOADING
 13. ALL STORMWATER STRUCTURES TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS AND/OR PROJECT SPECIFICATION.
 14. WHERE STRUCTURES EXCEED 3m (OR THE MAXIMUM DEPTH AS IDENTIFIED WITHIN AUTHORITY STANDARDS) THE CONTRACTOR WILL ENSURE AN ADEQUATE RPEQ STRUCTURAL ENGINEERING DESIGN & CERTIFICATION IS SOUGHT FOR ALL RELEVANT STRUCTURES FOR RELEVANT LOADING CIRCUMSTANCES PRIOR TO CONSTRUCTION
 15. CONTRACTOR TO ENSURE ALL MANHOLE STRUCTURES COMPLY WITH THE DEPTHS SPECIFIED ON THE DRAWINGS, ANY EXPECTED DISCREPANCY TO BE RAISED WITH SUPERINTENDENT PRIOR TO CONSTRUCTION. ANY NON CONFORMING CONSTRUCTION IS TO BE RECTIFIED AT THE CONTRACTORS EXPENSE
 16. CONTRACTOR TO INSTALL STEP IRONS WITHIN MANHOLES/FIELD INLETS WHERE REQUIRED BY LOCAL AUTHORITY
 17. WHERE TRUNCATION AND/OR ROAD DEDICATION IS PROPOSED, THE CONTRACTOR IS TO ALLOW FOR REMOVAL OF ALL IMPROVEMENTS FROM AREA OF DEDICATED ROAD IS PROPOSED AND REINSTATE THE VERGE/FOOTWAY TO COUNCIL CODE.

- ### ROADWORKS NOTES
1. REMOVE ANY REDUNDANT DRAINAGE OUTLETS AND/OR REDUNDANT CROSSOVERS INCLUDING ANY ASSOCIATED PIPEWORK ACROSS THE FOOTWAY AND REINSTATE THE KERB AND CHANNEL AND THE FOOTWAY AREA IN ACCORDANCE WITH COUNCIL GUIDELINES
 2. ROADWORKS DIMENSIONS SHOWN ARE TO NOMINAL FACE OF KERB OR EDGE OF PAVEMENT IF NO KERB
 3. CONTRACTOR TO NOTIFY THE SUPERINTENDENT OF ANY UNSUITABLE FOUNDING MATERIAL AT SUBGRADE AND AVOID DIRECTION PRIOR TO LAYING PAVEMENT
 6. CONTRACTOR TO ALLOW FOR INSTALLATION OF SOCKED PAVEMENT SUBSOIL DRAINAGE ALONG ALL EDGES OF PAVEMENT WORKS DISCHARGED AT THE LOW POINT TO CIVIL DRAINAGE AND IS TO ENSURE THE PAVEMENT IS ADEQUATELY DRAINED AT ALL TIMES DURING AND AFTER CONSTRUCTION
 7. PRIOR TO LAYING PAVEMENTS, ALLOW FOR SUB GRADE PROOF ROLL UNDER GEOTECHNICAL AND CIVIL ENGINEER SUPERVISION. IF UNSUITABLE MATERIAL (IE 'SOFT SPOTS') IS ENCOUNTERED, AS DEFINED IN SECTION 4 OF AS3798, THEN REMOVE AND REPLACE THIS MATERIAL TO A DEPTH/EXTENT AND SPECIFICATION AS INSTRUCTED BY THE SUPERVISING GEOTECHNICAL ENGINEER
 8. ALL FOOTPATHS TO BE CONSTRUCTED IN ACCORDANCE WITH ARCHITECTURAL/LANDSCAPING DRAWINGS AND RELEVANT AUTHORITY STANDARD DRAWINGS AND SPECIFICATIONS. FOOTPATHS TO BE CONSTRUCTED WITH MAXIMUM 2% CROSSFALL. CONTRACTOR WILL BE LIABLE TO REPLACE NON-COMPLIANT FOOTPATH AT THEIR COST.
 9. CONTRACTOR IS TO REPAIR ANY DAMAGE TO EXISTING KERB AND CHANNEL, PAVEMENT, DRAINAGE, FENCES, LANDSCAPING AND DRIVEWAYS THAT OCCUR DURING CONSTRUCTION AT THEIR COST
 10. CONTRACTOR IS TO ENSURE ALL REQUIRED SERVICE COUPLERS ARE INSTALLED PRIOR TO ROADWORKS. REFER TO GENERAL NOTE 11 ON DRAWING C01 (MELIORA COVER SHEET), CONTRACTOR WILL BE LIABLE FOR REWORK.
 11. CONTRACTOR TO ALLOW ALL COSTS FOR TRAFFIC MANAGEMENT AND WORKS PERMITS FOR ROADWORKS & VERGE WORKS WITHIN COUNCIL ROAD CORRIDOR.

- ### PRIVATE STORMWATER DRAINAGE NOTES
1. STORMWATER DRAINAGE IS CONSIDERED TO BE PRIVATE WHEN IT IS NOT ADOPTED BY AUTHORITY FOLLOWING COMPLETION OF THE PROJECT. PRIVATE DRAINAGE IS THE RESPONSIBILITY OF THE DEVELOPER/ SITE OWNER.
 2. REFER TO HYDRAULIC DRAWINGS FOR BUILDING, BASEMENT, ROOF AND PODIUM LEVEL DRAINAGE. CONTRACTOR TO REVIEW HYDRAULIC DRAWING AND ALLOW FOR CONNECTION STUBS INTO CIVIL PITS WHERE REQUIRED (IL OF STUB TO BE 50mm ABOVE INVERT OF PIT).
 3. ALL DRAINAGE CONSTRUCTION (PRIVATELY OWNED DRAINAGE LINES INTERNAL TO THE SITE BOUNDARIES) ARE TO BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARD INCLUDING AS 3500.
 4. ALL STORMWATER DRAINAGE PIPES INTERNAL TO SITE SHALL BE:
 - a) 225 DIA TO 375 DIA uPVC S8 RUBBER RING JOINTED, BLACKMAX OR APPROVED EQUIVALENT.
 - b) 450 DIA TO 600 DIA PP S8 RUBBER RING JOINTED, BLACKMAX OR APPROVED EQUIVALENT.

- ### ROCK MATTRESS / SCOUR PROTECTION NOTES
1. ALL ROCK MATTRESS TO BE ANGULAR BOULDERS, ALL VOIDS TO BE FILLED WITH PROGRESSIVELY SMALLER ROCKS ENSURING ALL ROCKS AND BOULDERS ARE FULLY INTERLOCKED
 2. HEAVY-NON WOVEN GEOTEXTILE LAYER TO BE PLACED UNDER ALL ROCK MATTRESS, TO BE INSTALLED AND SEWN WITH LAPS AS PER MANUFACTURERS SPECIFICATION
 3. GEOTEXTILE TO BE KEVED-IN BY A 500mm x 500mm TRENCH AT TOP AND TOE OF BATTER. WITH TOP KEY TO FEATURE A SLOTTED AG-PIPE SUBSOIL DRAIN TO DISCHARGE TO SUITABLE OUTLET
 4. PLACE GEOTEXTILE DIRECTLY ON COMPACTED FOUNDATION/SUBGRADE. IF SUBGRADE IS DISPERSIVE SOIL, REMOVE 150mm LAYER AND REPLACE WITH CBR 15 COMPACTED TO 95% SD.
 5. IF GEOTEXTILE IS DAMAGED DURING CONSTRUCTION, REPAIR ANY DAMAGE USING LAPPED SEWN PATCH AS PER MANUFACTURERS SPECIFICATION.
 6. WHERE ROCK BEING PLACED ON SLOPES OF MORE THAN 1in10 THE ENGINEER AND SUPERINTENDENT TO BE CONSULTED PRIOR TO CONSTRUCTION. GEOTECHNICAL SUBGRADE PROPERTIES ARE TO BE CONFIRMED, AND STONE PITCHING MAY BE REQUIRED.

- ### GEOTECHNICAL NOTES
1. CONTRACTOR TO ALLOW FOR ALL COSTS ASSOCIATED WITH ANY REQUIRED CONSTRUCTION PHASE GEOTECHNICAL SUPERVISION, TESTING AND CERTIFICATION FOR THE PROJECT INCLUDING DRAINAGE AND ROADWORKS
 2. WHERE FLEXIBLE PAVEMENT EXISTS, CONTRACTOR IS TO ALLOW COST AND TIME ASSOCIATED WITH TESTING (AND MELIORA REVIEW) OF 4-DAY SOAKED CBR TESTS AT SUBGRADE LEVEL, PRIOR TO LAYING SUB-BASE LAYERS

REFERENCE PRECEDENCE
REFER TO REQUIREMENTS OF THE FOLLOWING MANDATORY REFERENCE DOCUMENTS (IN ORDER OF PRECEDENCE); REQUEST IF NOT RECEIVED DURING TENDER. CONTRACTOR WILL BE LIABLE FOR NON-COMPLIANT CONSTRUCTION. RAISE DISCREPANCIES WITH SUPERINTENDENT PRIOR TO CONSTRUCTION.

1. AUTHORITY APPROVED PLANS/DOCUMENTS
2. AUTHORITY APPROVAL CONDITIONS
3. RECOMMENDATIONS WITHIN APPROVED SPECIALIST REPORTS INCLUDING STORMWATER MANAGEMENT, FLOOD, TRAFFIC ENGINEERING & REFUSE MANAGEMENT REPORTS
4. AUTHORITY STANDARDS, GUIDELINES AND POLICY
5. DESIGN STANDARD & GUIDELINES (QUDM, AS3500, AUSTRROADS, MUTCD)
6. PROJECT DRAWINGS, NOTES AND DETAILS (INCLUDING ALL MELIORA CIVIL DRAWINGS)
7. ENGINEERING SPECIFICATIONS (IF PUBLISHED)

LEGEND

PROPOSED RETAINING WALL		PROPOSED DRAINAGE STRUCTURE LABELS	
PROPOSED DRAINAGE (PIPE)		PROPOSED NBN CONDUIT - REFER SPEC BY ELEC ENG (ALLOW 0.45m DEEP, 1m WITHIN LOT, 0.2m INTO VERGE)	
PROPOSED ELEC (UG) BY OTHERS		PROPOSED CONCRETE ROAD/DRIVEWAY/FOOTPATH	
PROPOSED SEWER RETICULATION		EXISTING EXTERNAL ROAD PAVEMENT	
PROPOSED TELECO		EXISTING BUILDINGS	
PROPOSED WATER MAIN/SERVICE AND METERS			
PROPOSED ROAD CENTERLINE			
PROPOSED DRAINAGE INLET PIT (CLASS D GRATE & FRAME U.N.O)			

NOTE: FOR CONTOURS, BOUNDARIES & EXISTING FEATURES LEGEND REFER TO DRG No. C01

GENERAL NOTES & SAFETY IN DESIGN
ALL WORKS TO BE STRICTLY IN ACCORDANCE WITH ALL NOTES ON C01 U.N.O

DETAILS & LONGITUDINAL SECTIONS REFERENCE
FOR ROADWORKS & DRAINAGE DETAILS REFER DWG No C35 & C36.
FOR STORMWATER DRAINAGE LONGITUDINAL SECTIONS REFER DWG No C37.

- ### CONCRETE DRIVEWAYS & FOOTPATHS NOTES
1. ALL CONCRETE DRIVEWAYS AND FOOTPATHS CONSTRUCTION IS TO ALLOW FOR ALL SPECIFICATIONS WITHIN THE FOLLOWING DOCUMENTS (IN ORDER OF PRECEDENCE):
 - 1.1. LOCAL COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS
 - 1.2. 'RESIDENTIAL CONCRETE DRIVEWAYS AND FOOTPATHS' (CAA, JULY 2006) (BOTH ARE FREELY AVAILABLE VIA THE INTERNET)
 2. ALLOW SUBGRADE PREPARATION, SUB-BASE LAYER, FORMWORK, SAND BEDDING/POLYETHYLENE MEMBRANE, JOINTING & SEALANT AS PER ADVICE WITHIN REFERENCE ITEM 1.2 ABOVE. UNLESS SPECIFIED IN REFERENCE ITEM 1.1 ABOVE
 3. ENSURE SAWCUTS ARE MADE WITHIN 6 HOURS OF POURING CONCRETE TO ENSURE CONTROLLED CRACKING OCCURS

- ### LEVELS & SETOUT NOTES
1. ROADWORKS LEVELS SHOWN ARE FINISHED PAVEMENT LEVELS
 2. DRAINAGE LEVELS TYPICALLY HIGHLIGHT INVERT OF PIPE (IL) AND FINISHED SURFACE LEVEL (FSL) AT THE LID/GRATE OF THE DRAINAGE STRUCTURE, AND DEPTH (D)
 3. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING SETOUT INFORMATION AND FFL
 4. CONTRACTOR TO CONFIRM SITE SURVEY STATION LOCATION AND BUILDING/PAD SETOUT LOCATIONS IN RELATION TO BOUNDARIES PRIOR TO CONSTRUCTION AND ADVISE SUPERINTENDENT IF ANY DISCREPANCIES/ANOMALIES FOUND.



NOTE
ALL PLANS TO BE READ IN CONJUNCTION WITH ALL INFORMATION AND NOTES ON DRG. No. C01 AND ALL RELEVANT SPECIFICATIONS

REV	DESCRIPTION	DATE	DRAWN	APPR.
01	ISSUE FOR APPROVAL	17.02.23	SM	MB

NORTH POINT

SCALE BAR(S)
0 1 2 3 4 5 6m
SCALE 1:125 @ A1

DRAWN: FEB 2023
DESIGNED: FEB 2023
APPROVED: RPEQ SIGNATURE
MBLYTH
RPEQ No. 21258
DATE: FEB 2023

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CLIENT: PROSPERITY CAPITAL PRINCIPLES PL
PROJECT: 11 SHANAHAN PARADE, REDBANK PLAINS

DRAWING TITLE: ROADWORKS & DRAINAGE LAYOUT PLAN

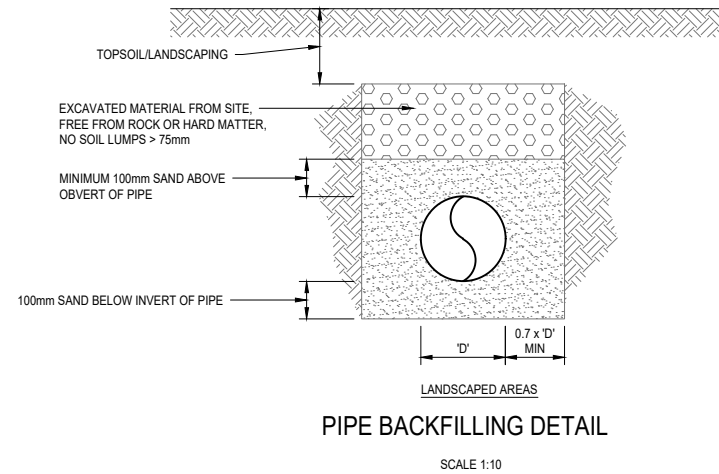
FOR APPROVAL

MELIORA JOB No. 2270

C30 01
DWG No REVISION

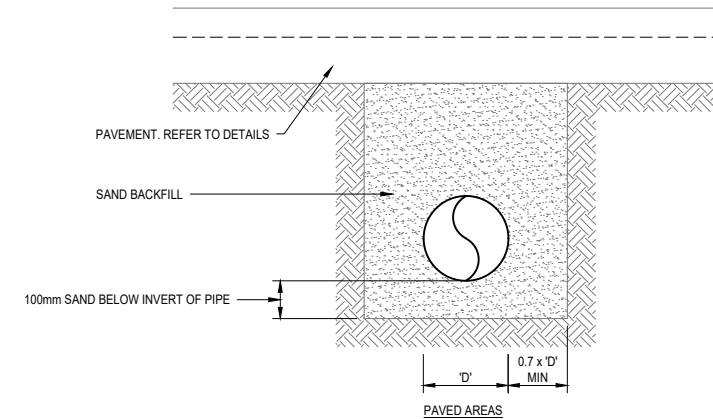
MINIMUM INTERNAL DIMENSIONS (AT DEPTH) FOR STORMWATER PITS

DEPTH TO INVERT OF OUTLET	MINIMUM INTERNAL DIMENSIONS mm		
	RECTANGULAR		CIRCULAR
	WIDTH	LENGTH	DIAMETER
≤600	450	450	600
>600 ≤900	600	600	900
>900 ≤1200	600	900	1000
>1200	900	900	1000



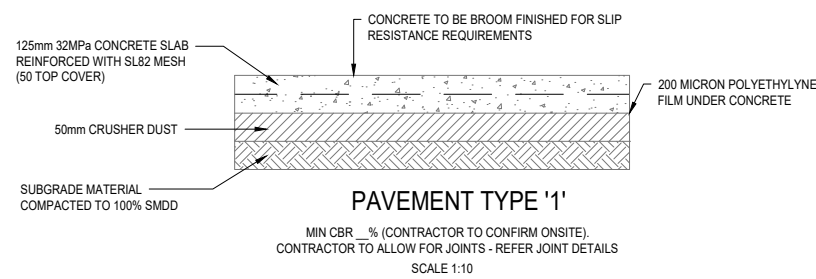
PIPE BACKFILLING DETAIL

SCALE 1:10



PIPE BACKFILLING DETAIL

SCALE 1:10



PAVEMENT TYPE '1'

MIN CBR _% (CONTRACTOR TO CONFIRM ONSITE).
CONTRACTOR TO ALLOW FOR JOINTS - REFER JOINT DETAILS
SCALE 1:10

LAYOUT & NOTES REFERENCE
FOR ROADWORKS & DRAINAGE LAYOUT PLAN REFER DWG No C30.



NOTE
ALL PLANS TO BE READ IN CONJUNCTION WITH ALL INFORMATION AND NOTES ON DRG. No. C01 AND ALL RELEVANT SPECIFICATIONS



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NORTH POINT	SCALE BAR(S)
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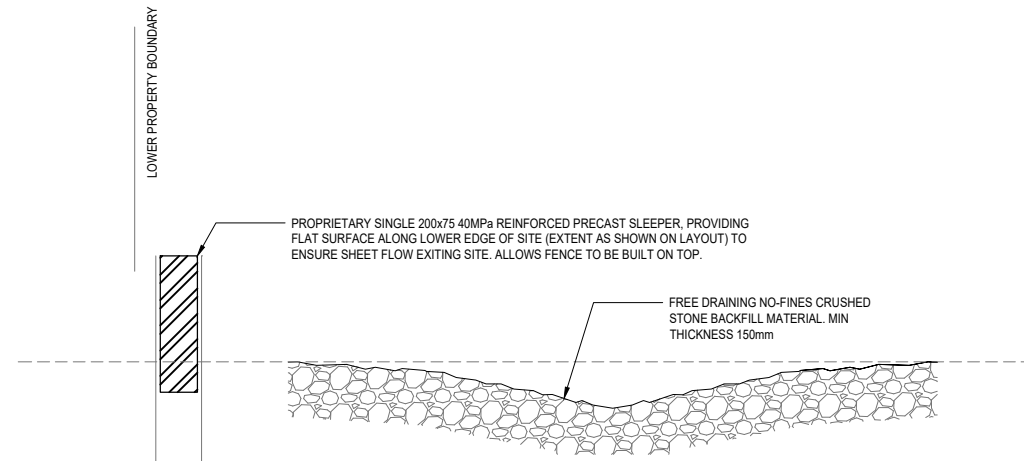
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DESIGNED: FEB 2023	
APPROVED: MSL:YTH	
RPEQ No. 21258	
DATE: FEB 2023	

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CLIENT: PROSPERITY CAPITAL PRINCIPLES PL
PROJECT: 11 SHANAHAN PARADE, REDBANK PLAINS

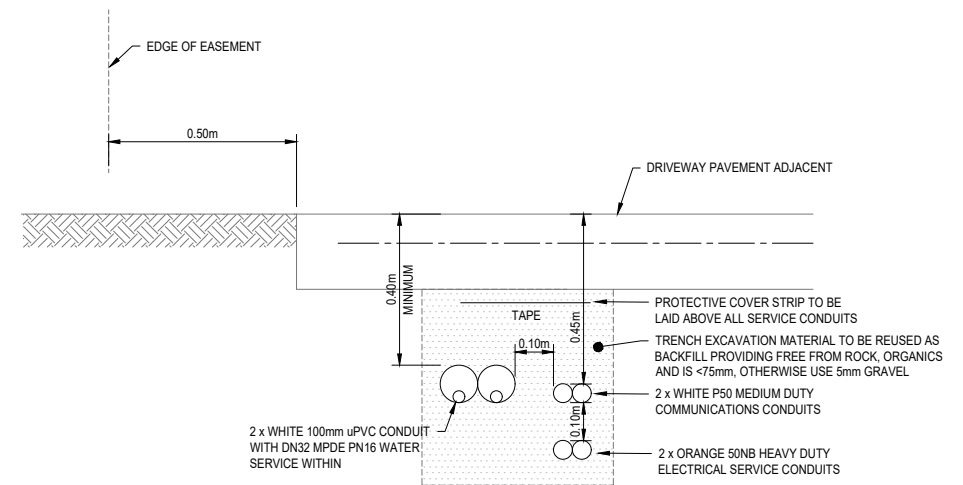
DRAWING TITLE: ROADWORKS & DRAINAGE DETAILS SHEET 1 OF 2

MELIORA JOB No. 2270
DWG No. C35
REVISION 01



SECTION L - LEVEL SPREADER ARRANGEMENT

SCALE 1:10



COMBINED TRENCH - SERVICES FOR 2 x REAR LOT, UNDER RC

SCALE 1:10

ELECTRICAL AND COMMUNICATION SERVICE CONDUITS TO BE INSTALLED IN COMPLIANCE WITH AS/NZS 3000 (SAA WIRING RULES). ALL CONDUITS TO BE INSTALLED WITH DRAW WIRE AND CAPPED MIN 1 METRE WITHIN LOT BEING SERVICED. TURN UP CONDUITS AT START AND END OF SERVICES TRENCH FOR EASE OF CONNECTION




NOTE
ALL PLANS TO BE READ IN CONJUNCTION WITH ALL INFORMATION AND NOTES ON DRG. No. C01 AND ALL RELEVANT SPECIFICATIONS



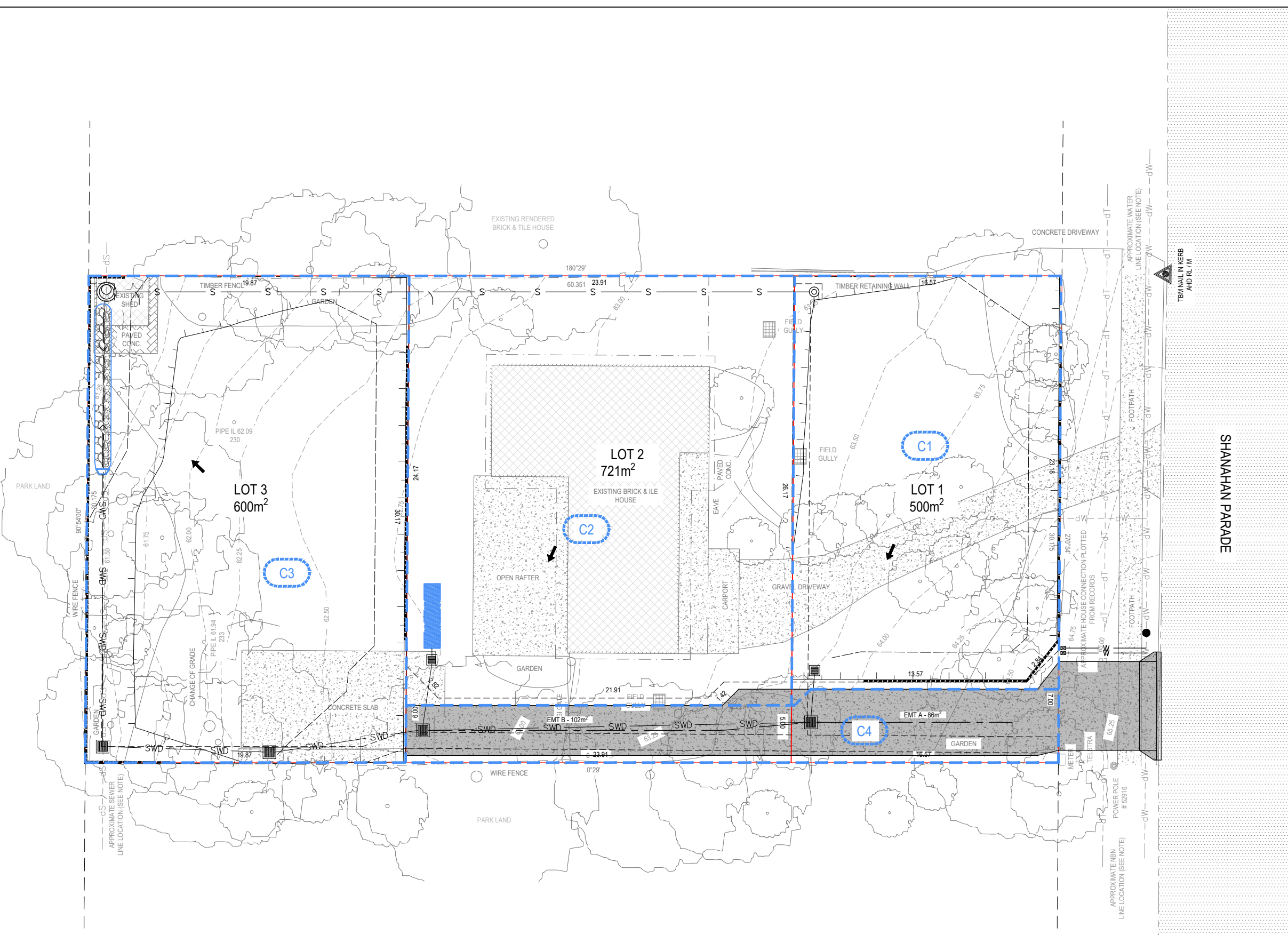
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		21 McLEOD STREET HERSTON, QLD 4006 PHONE: 0429970345		CLIENT: PROSPERITY CAPITAL PRINCIPLES PL		DRAWING TITLE: ROADWORKS & DRAINAGE DETAILS SHEET 2 OF 2		2270 MELIORA JOB No.	
APPROVED: MBLYTH RPEQ No. 21258 DATE: FEB 2023		RPEQ SIGNATURE 		PROJECT: 11 SHANAHAN PARADE, REDBANK PLAINS		C36 DWG No.		01 REVISION	
01 ISSUE FOR APPROVAL 17.02.23 SM MB	NORTH POINT	SCALE BAR(S)	DRAWN: FEB 2023 DESIGNED: FEB 2023						
REV DESCRIPTION DATE DRAWN APPR.									

LEGEND

-  POST DEVELOPMENT CATCHMENT BOUNDARY
-  PROPOSED CATCHMENT FLOW DIRECTION
-  CATCHMENT LABEL

NOTE: FOR CONTOURS, BOUNDARIES & EXISTING FEATURES LEGEND REFER TO DRG No. C01

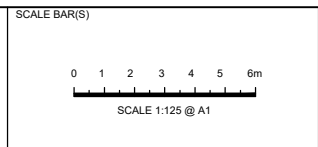
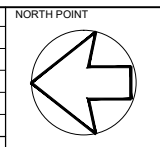


SHANAHAN PARADE



NOTE
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CLIENT: PROSPERITY CAPITAL PRINCIPLES PL
PROJECT: 11 SHANAHAN PARADE, REDBANK PLAINS

DRAWING TITLE: STORMWATER DRAINAGE CATCHMENT LAYOUT PLAN

MELIORA JOB No. **2270**
C40
DWG No
01
REVISION



	1/1	2/1	3/1	4/1	5/1	6/1	1/2	3/1
STRUCTURE TYPE	FI	FI	FI	FI	FI	FI	FI	FI
GRATE/LID CLASS	B	D	D	D	B		B	D
STRUCTURE DIMENSIONS	450 x 450	600 x 600	600 x 600	600 x 600	600 x 600		450 x 450	600 x 600



DATUM RL 59.50										
DIAMETER (mm)	150mm Ø PVC	225mm Ø PVC	225mm Ø PVC	225mm Ø PVC	225mm Ø PVC	150mm Ø PVC				
CLASS	SN8	SN8	SN8	SN8	SN8	SN8				
SLOPE/GRADE	3.40%	5.17%	1.01%	0.50%	0.48%	7.64%				
	1:29.39	1:19.34	1:99.18	1:200.00	1:209.92	1:13.10				
DEPTH (m)	0.750	1.061	1.085	0.639	0.382	0.750	1.085			
	63.011	62.902	61.833	61.511	61.458	61.971	61.633			
INVERT LEVEL (m)	63.011	62.902	61.833	61.511	61.458	61.971	61.633			
FINAL SURFACE LEVEL	63.761	63.963	62.718	62.150	61.831	61.831	61.448	61.249	61.364	61.115
CHAINAGE	0.000	3.191	3.191	24.064	27.255	9.620	36.876	10.345	47.221	17.736

SW LONGITUDINAL SECTION LINE 1
SCALES: HORIZONTAL 1:250 VERTICAL 1:25

SW LONGITUDINAL SECTION LINE 2
SCALES: HORIZONTAL 1:250 VERTICAL 1:25

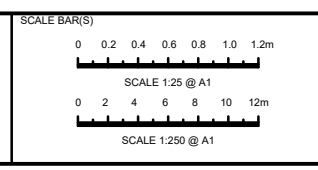
LAYOUT & NOTES REFERENCE
FOR ROADWORKS & DRAINAGE LAYOUT PLAN REFER DWG No C30.



NOTE
ALL PLANS TO BE READ IN CONJUNCTION WITH ALL INFORMATION AND NOTES ON DRG. No. C01 AND ALL RELEVANT SPECIFICATIONS



01	ISSUE FOR APPROVAL	17.02.23	SM	MB
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CLIENT: PROSPERITY CAPITAL PRINCIPLES PL
PROJECT: 11 SHANAHAN PARADE, REDBANK PLAINS

DRAWING TITLE: STORMWATER DRAINAGE LONGITUDINAL SECTION

MELIORA JOB No. **2270**
DWG No. **C41**
REVISION **01**

SEWER & WATER CONNECTION WORKS

11 SHANAHAN PARADE, REDBANK PLAINS, PNT # 23-PNT-64086



LOCALITY PLAN

EXTRACTED FROM GOOGLE MAPS © 2020
NOT TO SCALE

LOT DATA

27	RP 132756
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REFER TO SURVEY PLAN BY XXXXX FOR REFERENCE PSM TO BE USED AS REFERENCE FOR ALL SETOUT INFORMATION DURING CONSTRUCTION. CONTRACTOR TO CONFIRM SURVEY SETOUT REFERENCE WITH REGISTERED SURVEYOR PRIOR TO CONSTRUCTION. ALL LEVELS TO AUSTRALIAN HEIGHT DATUM (AHD), GRID COORDINATE SYSTEM AS SPECIFIED BY SURVEYOR.

MELIORA ENGINEERING ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF EXISTING UNDERGROUND SERVICES WHICH ARE PLOTTED FROM AUTHORITY RECORDS BY THE SURVEYOR. DOCUMENTED DESIGNS MAY BE SUBJECT TO ONGOING CHANGES UNTIL RECEIPT AND REVIEW OF ALL 'LEVEL 1' EXISTING SERVICE LOCATION RESULTS ALONG FULL LENGTH OF PROPOSED MAIN ALIGNMENTS. MELIORA WILL NOT BE HELD LIABLE FOR COST INCREASES OR TIME EXTENSION RESULTING FROM NECESSARY DESIGN CHANGES TO ACHIEVE AUTHORITY CODE COMPLIANCE.

WORKS DRAWING SCHEDULE

DRAWING No.	DRAWING TITLE
C50	SEWER & WATER COVER SHEET, LOCALITY PLAN & MISC NOTES
C51	SEWER & WATER GENERAL NOTES
C52	SEWER & WATER TECHNICAL NOTES
C53	SEWER LAYOUT PLAN
C54	SEWER LONGITUDINAL SECTION & DETAILS
C55	WATER LAYOUT PLAN

GENERAL LEGEND

DETAIL CALLOUT & REFERENCE

SETOUT POINT

CONTOURS LEGEND

DESIGN/FINISHED SURFACE CONTOURS

EXISTING SURFACE CONTOURS

BOUNDARIES LEGEND

PROPOSED LOT BOUNDARIES

PROPOSED EASEMENT

EXISTING FEATURES LEGEND

EXISTING PROPERTY BOUNDARY

EXISTING BOUNDARY ADJACENT

EXISTING EASEMENT

CONTOURS EXISTING MAJOR

CONTOURS EXISTING MINOR

EARTHWORKS EXISTING BATTER TOE

EARTHWORKS EXISTING BATTER TOP

BUILDING EXISTING

BUILDING EXISTING ROOF/EAVE

MISC FENCE / GATE EXISTING

ROAD EXISTING KERB

ROAD EXISTING CENTERLINE

ROAD EXISTING EDGE BITUMEN

COMMUNICATIONS EXISTING

DRAINAGE EXISTING CENTERLINE

DRAINAGE EXISTING DBYD

ELECTRICAL EXISTING OVERHEAD

ELECTRICAL EXISTING UNDERGROUND

ELECTRICAL EXISTING CENTERLINE DBYD

GAS EXISTING

GAS EXISTING CENTERLINE DBYD

SEWER EXISTING CENTERLINE

SEWER EXISTING RISING MAIN

SEWER EXISTING CENTERLINE DBYD

SEWER RISING MAIN EXISTING CENTERLINE DBYD

TELECOMMUNICATIONS EXISTING

TELECOMMUNICATIONS EXISTING CENTERLINE DBYD

FIBER OPTIC CABLES EXISTING CENTERLINE DBYD

WATER EXISTING CENTERLINE

WATER EXISTING CENTERLINE DBYD

ABANDONED SERVICES

EXISTING RETAINING WALL - BOULDER

EXISTING RETAINING WALL - BLOCK

EARTHWORKS EXISTING DRAIN

EARTHWORKS EXISTING DRAIN CONCRETE

EXISTING VEGETATION



--- 18.0 ---

--- 18.0 ---

GENERAL NOTES

- ALL WORKS TO BE CARRIED OUT STRICTLY IN ACCORDANCE WITH THE WATER APPROVAL CONDITIONS, CURRENT SEQ/WSAAUU (AND OTHER RELEVANT AUTHORITY) GUIDELINES AND STANDARD DRAWINGS UNLESS DIRECTED OTHERWISE.
- A LEGIBLE COPY OF THE WATER APPROVAL AND DOCUMENTS (INCLUDING CONDITIONS) MUST BE MAINTAINED AND KEPT ON SITE FOR INSPECTION BY SITE WORKERS AND UU OFFICERS & ENDORSED CONSULTANTS AS REQUIRED.
- REFER TO MANDATORY REFERENCE NOTES ON THIS PAGE.
- REFER TO ARCHITECTURAL, HYDRAULIC, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SITE SERVICES TO BE CO-ORDINATED WITH AND CONSIDERED DURING CONSTRUCTION OF CIVIL WORK.
- THE DEVELOPER IS TO NOMINATE THE SUPERINTENDENT FOR THE WORKS AND NOTIFY ALL RELEVANT PARTIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL DIMENSIONS ON THE DRAWINGS ARE IN METRES UNLESS SHOWN OTHERWISE. DO NOT SCALE OFF THESE DRAWINGS. IF IN DOUBT ASK SUPERINTENDENT FOR CLARIFICATION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL EXISTING SERVICES ON SITE PRIOR TO CONSTRUCTION AND LAYING OF ANY SERVICES AND ADVISE THE SUPERINTENDENT OF ANY DIFFERENCES FROM THE DRAWINGS. ANY DAMAGE TO EXISTING SERVICES WILL BE REPAIRED AT THE CONTRACTOR'S COST.
- ALL SETTING OUT IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO WORKS COMMENCING ON SITE. THE SUPERINTENDENT'S SURVEYOR SHALL PEG ALL ALLOTMENT BOUNDARIES. PROVIDE CO-ORDINATE INFORMATION TO THESE PEGS AND PLACE BENCH MARKS. THE CONTRACTOR SHALL SET OUT THE WORKS FROM AND MAINTAIN THESE PEGS.
- WORKS SHALL BE PROGRAMMED SO AS NOT TO DISTURB NEARBY HOUSEHOLDERS EITHER BY DUST, NOISE, FLOODING OR DISCONNECTION OF SERVICES. (FOR MARKETING REASONS IT IS ESSENTIAL THE SITE IS KEPT IN A TIDY STATE EVEN DURING CONSTRUCTION. THE CONTRACTOR SHALL ALLOW ALL COSTS TO CLEAN-UP THE SITE INCLUDING REMOVAL OF RUBBISH AND EXCESS SOIL, STACKING OF LOOSE PIPES AND GRADING OF DISTURBED AREAS WEEKLY).
- UNDERTAKE ACTIVITIES ASSOCIATED WITH THE OPERATION OF THE USE ONLY BETWEEN THE HOURS OF 6.30am TO 4.30pm MONDAY TO FRIDAY UNLESS STATED OTHERWISE IN THE DEVELOPMENT CONDITIONS.
- SURVEY BENCHMARKS ARE TO BE CONFIRMED ONSITE PRIOR TO CONSTRUCTION AND USED AS REFERENCE FOR ALL CONSTRUCTION SETOUT AND PERMANENT SURVEY MARKS ARE TO BE INSTALLED AS PER COUNCIL STANDARDS.
- OBTAIN NECESSARY PERMITS AND APPROVALS FROM RELEVANT AUTHORITIES BEFORE COMMENCING WORK ON SITE. NOTIFY RELEVANT SERVICE AUTHORITIES BEFORE COMMENCING WORK ON SITE.
- THESE DRAWINGS DO NOT DETAIL TEMPORARY WORKS. CONSTRUCTION METHODS AND TEMPORARY WORKS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- REGARDLESS OF DRAWING ISSUE STATUS, DOCUMENTED DESIGNS MAY BE SUBJECT TO ONGOING CHANGES UNTIL RECEIPT AND REVIEW OF ALL 'LEVEL 1' EXISTING SERVICE LOCATION RESULTS ALONG FULL LENGTH OF PROPOSED MAIN ALIGNMENTS. MELIORA WILL NOT BE HELD LIABLE FOR COST INCREASES OR TIME EXTENSION RESULTING FROM NECESSARY DESIGN CHANGES TO ACHIEVE AUTHORITY CODE COMPLIANCE.

MANDATORY REFERENCE DOCUMENTATION

ALL WORKS TO BE CARRIED OUT STRICTLY IN ACCORDANCE WITH THE WATER APPROVAL CONDITIONS, CURRENT SEQ/WSAAUU (AND OTHER RELEVANT AUTHORITY) GUIDELINES AND STANDARD DRAWINGS UNLESS DIRECTED OTHERWISE. ALL RELEVANT AUTHORITY APPROVALS AND CONDITIONS ARE TO BE REVIEWED (AND REQUESTED IF NOT ALREADY RECEIVED) BY CONTRACTOR PRIOR TO CONSTRUCTION.

READ THESE DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL AND OTHER ENGINEERING DRAWING, SPECIFICATIONS AND WITH ALL OTHER WRITTEN INSTRUCTIONS ISSUED. REFER TO ARCHITECTURAL DRAWINGS FOR SETTING OUT AND DETAIL DIMENSIONS. IN CASE OF DISCREPANCY, PRECEDENCE IS GIVEN TO SPECIFICATION, NOTES THEN DRAWINGS. REFER DISCREPANCIES TO SUPERINTENDENT FOR RESOLUTION BEFORE PROCEEDING WITH WORK.

FURTHER, ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH

- UU & COUNCIL (LOCAL AUTHORITY) GUIDELINES, PLANNING SCHEME POLICIES (PSPs), SPECIFICATIONS AND STANDARD DRAWINGS
- SOUTH EAST QUEENSLAND WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE (OR THE SEQ CODE)
- RELEVANT LEGISLATION INCLUDING (BUT NOT LIMITED TO):
 - WORK HEALTH & SAFETY ACT 2011
 - ENVIRONMENTAL PROTECTION & BIODIVERSITY ACT 1999
 - BIOSECURITY ACT 2015. REFER TO WWW.DAF.QLD.GOV.AU
 - SUSTAINABLE PLANNING ACT 1999
- RELEVANT AUSTRALIAN STANDARDS INCLUDING (BUT NOT LIMITED TO):
 - AS3500.3-2018 (PLUMBING & DRAINAGE)
 - AS2865-2009 (CONFINED SPACES)
 - AS3798-2007 (EARTHWORKS)
 - AS/NZS 2890.1-2004 (PARKING FACILITIES)
 - AS1742.3-2019 (SIGNAGE & LINE MARKING) - SS BY MUTCD
 - AS4049.2-2005 (PAVEMENT MARKING MATERIALS)
- INTERNATIONAL EROSION CONTROL AUTHORITY (IECA) & STANDARD DRAWINGS

URBAN UTILITIES

THIRD PARTY CERTIFICATION SCHEME ENDORSED CONSULTANT
(PLANS SUBMITTED ARE TO URBAN UTILITIES' STANDARDS AND SATISFY THE WATER APPROVAL CONDITIONS)

WATER APPROVAL REF NUMBER: 23-PNT-64086

ENDORSED CONSULTANT: DMC QLD CONSULTING PTY LTD

RPEQ NAME: DIANA CAMPBELL - 4945

RPEQ SIGNATURE:

RPEQ CONTACT DETAILS: 07 3881 2350



REFERENCE PRECEDENCE

REFER TO REQUIREMENTS OF THE FOLLOWING MANDATORY REFERENCE DOCUMENTS (IN ORDER OF PRECEDENCE). REQUEST IF NOT RECEIVED DURING TENDER. CONTRACTOR WILL BE LIABLE FOR NON-COMPLIANT CONSTRUCTION. RAISE DISCREPANCIES WITH SUPERINTENDENT PRIOR TO CONSTRUCTION.

- WATER AUTHORITY APPROVED PLANS/DOCUMENTS
- WATER AUTHORITY APPROVAL CONDITIONS
- WATER AUTHORITY STANDARDS, GUIDELINES AND POLICY
- DESIGN STANDARD & GUIDELINES (SEQ CODE, WSAU)
- PROJECT DRAWINGS, NOTES AND DETAILS



NOTE

ALL PLANS TO BE READ IN CONJUNCTION WITH INFORMATION AND NOTES ON DRG. No. C01 & C50 AND ALL RELEVANT SPECIFICATIONS

FOR CONSTRUCTION

NORTH POINT		SCALE BAR(S)		DRAWN: FEB 2023		CLIENT: PROSPERITY CAPITAL PRINCIPLES PL		DRAWING TITLE: SEWER & WATER COVER SHEET, LOCALITY PLAN & MISC NOTES		MELIORA JOB No. 2270	
				DESIGNED: FEB 2023		PROJECT: 11 SHANAHAN PARADE, REDBANK PLAINS				C50	
A		ISSUE FOR CONSTRUCTION		DATE 17.02.23		DRAWN SM		APPR. MB		A	
REV		DESCRIPTION		DATE		DRAWN		APPR.		REVISION	

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SEWER NOTES

GENERAL

- CONCRETE SHALL BE CLASS N20 TO WSA PS-357 EXCEPT FOR MAINTENANCE HOLES WHICH ARE SPECIAL CLASS TO WSA PS-358 WITH CALCAREOUS AGGREGATES
- ALL PIPES, FITTINGS AND CONCRETE SHALL HAVE A MINIMUM COVER OF 150mm IN FOOTPATHS AND ROADWAYS WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER. BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SEQ SEWER CODE.
- SEWERS SHALL BE DISUSED/ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN THE SEQ SEWER CODE
- CONSTRUCTION OF THE PROPOSED SEWER WORKS TO BE UNDERTAKEN BY A PRIVATE CONTRACTOR. THE ENDORSED CONSULTANT IS TO INSPECT AND COORDINATE TESTING OF ALL WORK TO ENSURE ITS QUALITY AND THAT IT CONFORMS WITH UU STANDARDS. THE CONTRACTOR IS TO NOTIFY THE ENDORSED CONSULTANT AND UU AND OBTAIN RELEVANT PERMITS PRIOR TO COMMENCEMENT OF WORKS
- CONTRACTOR SHALL VERIFY FINISHED SURFACE LEVELS ON SITE BEFORE CONSTRUCTION OF SEWERS AND PROPERTY CONNECTIONS. THE CONTRACTOR SHALL ENSURE THAT AS CONSTRUCTED DETAILS CAN BE COLLECTED BY SURVEYOR UNDER SUPERVISION OF ENDORSED CONSULTANT PRIOR TO BACKFILLING
- IT IS THE DEVELOPER'S RESPONSIBILITY TO ENSURE ALL LIVE SEWER WORKS ARE COMPLETE BEFORE ALLOWING PRIVATE DRAINAGE TO BE CONNECTED
- AFTER SUCCESSFUL 'ON MAINTENANCE' HOUSE DRAINS ARE TO BE CONNECTED TO NEW HCS BY A LICENSED PLUMBER IN ACCORDANCE WITH APPROVED PLANS
- ANY EXISTING PROPERTIES REQUIRING SEWER WORKS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR. ANY REPAIR AND RECTIFICATION WORK IS AT THE EXPENSE OF THE CONTRACTOR. WRITTEN PERMISSION MUST BE OBTAINED FROM OWNERS BEFORE ENTERING PROPERTY TO CONSTRUCT PROPOSED SEWER WORKS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO ALLOW CONSTRUCTION OF THE SEWER, INCLUDING EXCAVATION AND SAFE SHORING TO ALLOW FOR LIVE SEWER WORKS (INCLUDING INSPECTION). THE MINIMUM CLEARANCE TO OTHER SERVICES IS TO BE IN ACCORDANCE WITH THE CURRENT SEQ WATER SUPPLY AND SEWERAGE DESIGN & CONSTRUCTION CODE UNLESS OTHERWISE SHOWN
- CONTRACTOR TO OBTAIN PRIOR APPROVAL OF UU AND RPEO ENGINEER FOR ANY AND ALL MINOR DEVIATIONS REQUIRED TO AVOID EXISTING SERVICES
- VACUUM TESTING & CCTV TO BE CARRIED OUT IN ACCORDANCE WITH THE SEQ WATER SUPPLY AND SEWERAGE DESIGN & CONSTRUCTION CODE
- INSTALL DETECTABLE MARKER TAPE ON ALL MAINS AND PROPERTY CONNECTIONS. REFER TO UU STANDARDS. PIPELINES SHALL NOT BE CONSTRUCTED IN UNCONTROLLED FILL. CERTIFICATES SHALL BE LODGED WITH THE CONTRACT MANAGER AND THE UU AUDIT & COMPLIANCE OFFICER CERTIFYING THE FILL IS CONTROLLED FILL COMPACTED TO A DENSITY OF NO LESS THAN 95% OF ITS STANDARD MAXIMUM DRY DENSITY, IN ACCORDANCE WITH A.S. 1289.5.1.1. WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300 mm (LOOSE) IN DEPTH AND SHALL BE COMPACTED UNTIL THE COMPACTION IS NOT LESS THAN 95% OF THE MATERIALS MAXIMUM COMPACTION WHEN TESTED IN ACCORDANCE WITH A.S. 1289 (MODIFIED COMPACTION). TESTING SHALL BE CARRIED OUT AFTER EACH ALTERNATE LAYER. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY THE SEQ SERVICE PROVIDER UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED
- TUNNEL BORE OR DIRECTIONAL DRILL UNDER EXISTING STAMPED OR REINFORCED CONCRETE DRIVEWAYS WHERE THE EXISTING SURFACE CANNOT BE MATCHED, AND UNDER SIGNIFICANT TREES AS ADVISED BY LOCAL COUNCIL
- ALL SEWERAGE RETICULATION OR PROPERTY CONNECTIONS CROSSING ROADS ARE TO INCLUDE KERB MARKINGS TO SEQ-SEW-1103-3

MAINTENANCE HOLES

- ALL UU MANHOLES TO BE IN ACCORDANCE WITH NOTES ON STD DRAWINGS SEQ-SEW-1101-4 THROUGH TO SEQ-SEW-1101-5
- ALL MAINTENANCE HOLES TO BE CAST IN-SITU USING SPECIAL CLASS CONCRETE (WSA PS-358) UNLESS OTHERWISE STATED
- SPECIAL CLASS CONCRETE (WSA PS-358) TO BE: STRENGTH CLASS 40MPa AGGREGATE SIZE 20mm SLUMP AT POINT OF ACCEPTANCE TO BE IN THE RANGE 80mm TO 120mm. ONLY CALCAREOUS AGGREGATES TO BE USED. CALCAREOUS AGGREGATES ARE AGGREGATES DEFINED AS HAVING AN ACID SOLUBILITY GREATER THAN 98% WHEN TESTED IN ACCORDANCE WITH AWWA B 100-09
- IF THIS SPECIAL CLASS CONCRETE TYPE CANNOT BE SOURCED, THEN RPEO ENGINEER IS TO BE NOTIFIED AND APPROVAL IS TO BE SOUGHT FOR MANHOLES TO BE LINED WITH A CAST IN PLACE LINING SYSTEM AS PER THE SEQ CODE STANDARD DRAWINGS SEQ-SPS-1407-1 AND SEQ-SPS-1407-2
- INTERNAL FORMWORK TO BE STRIPPED BEFORE EXTERNAL FORMWORK
- CONCRETE TO CURE FOR TIME SPECIFIED BY DESIGN CONSULTANT PRIOR TO LOADING OF MAINTENANCE HOLE
- MAINTENANCE HOLE LADDERS AND STEP IRONS TO BE INSTALLED AS PER THE SEQ WATER SUPPLY AND SEWERAGE DESIGN & CONSTRUCTION CODE. STEP IRONS & FIXING METHOD TO BE IN ACCORDANCE WITH AS 1657

TRENCH NOTES

- GEOTECHNICAL ENGINEER TO CONFIRM IF TRENCH SUPPORT IS REQUIRED PRIOR TO CONSTRUCTION
- PIPE EMBEDMENT MATERIAL SHALL BE 5 TO 7mm SINGLE SIZED MATERIAL THAT COMPLIES WITH THE PURCHASE SPECIFICATION FOR EMBEDMENT MATERIALS AS NOMINATED BY UU IN THE SEQ ACCEPTED PRODUCTS & MATERIALS LIST
- MINIMUM COVER ON MAINS FROM PERMANENT LEVEL SHALL BE THE GREATER OF SEQ WS&S D&C CODE DWG NO SEQ-SEW-1200-2 OR BRISBANE CITY COUNCIL STANDARD DRAWINGS BSD-2042 & BSD-2043
- ROAD CROSSINGS, VERGES AND PATHS TRENCH RESTORATION SHALL BE IN ACCORDANCE WITH BCC STANDARD DRAWING BSD-2042 & BSD-2043
- PROVIDE 50 THICK LAYER OF BEDDING SAND IF FLOWABLE FILL CONCRETE OR OTHER LOW PERMEABLE FILL IS USED AS EMBEDMENT
- 150 MINIMUM OVERLAY FOR NON TRAFFICABLE AND 300 MINIMUM FOR TRAFFICABLE. REFER STANDARD DRAWING SEQ-SEW-1200-2
- FOR PE SEWER, WHERE TRENCH FILL IS A MIGRATORY NATIVE SOIL OR SAND OR FINE CLAY MATERIAL, EMBEDMENT TYPE 4 IS TO BE USED WITH GEOTEXTILE, OTHERWISE TYPE 3 EMBEDMENT CAN BE USED WHERE GEOTECHNICAL INVESTIGATION RESULTS ALLOW
- GEOTECHNICAL ENGINEER TO CONFIRM IF TRENCH SUPPORT IS REQUIRED PRIOR TO CONSTRUCTION
- WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300 mm (LOOSE) IN DEPTH AND SHALL BE COMPACTED UNTIL THE COMPACTION IS NOT LESS THAN 95% OF THE MATERIALS MAXIMUM COMPACTION WHEN TESTED IN ACCORDANCE WITH A.S. 1289 (MODIFIED COMPACTION). TESTING SHALL BE CARRIED OUT AFTER EACH ALTERNATE LAYER. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY THE SEQ SERVICE PROVIDER UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED
- TRENCH BACKFILL TO BE IN ACCORDANCE WITH SEQ-SEW-1200-2 AND 1201-1

EASEMENT REQUIREMENTS

- IN ACCORDANCE WITH UU REQUIREMENTS AND THE CURRENT SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE, WHERE PROPOSED UU INFRASTRUCTURE IS TO BE LOCATED WITHIN PRIVATE PROPERTY, PUBLIC UTILITY EASEMENT(S) MUST BE PROVIDED AT NO COST TO UU. THE TERMS OF THE EASEMENT(S) MUST BE TO THE SATISFACTION OF UU PRIOR TO THE COMMENCEMENT OF USE OF THE NEWLY CREATED INFRASTRUCTURE
- THE PROJECT PROPONENT IS RESPONSIBLE FOR ALL EASEMENT MATTERS (INCLUDING, BUT NOT LIMITED TO: LAND OWNER NEGOTIATION, COMPENSATION, AND AGREEMENT, EASEMENT SURVEY, EASEMENT CREATION AND REGISTRATION), AT NO COST TO UU

PRIVATE PROPERTY ACCESS

- THE PROJECT PROPONENT MUST UNDERTAKE AND RESOLVE ALL MATTERS REGARDING ENTRY INTO PRIVATE PROPERTY INCLUDING CONSTRUCTION ACCESS, AT THE PROJECT PROPONENTS OWN COST. NO WORK SHALL COMMENCE WITHIN ANY PRIVATE PROPERTY UNTIL THE PROJECT PROPONENT HAS VERIFIED THAT ALL REQUIRED OWNERS CONSENTS AND APPROVALS ARE IN PLACE AND THAT ALL OWNERS/RESIDENTS HAVE BEEN PROVIDED WITH THE NECESSARY NOTICES OF ENTRY.

PROPERTY CONNECTION NOTES

- EACH ALLOTMENT SHALL BE SERVED BY A DN110 PE PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN160 PE PROPERTY CONNECTION SHALL BE PROVIDED U.N.O
- PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300mm AND A MAXIMUM OF 750mm.
- PROPERTY CONNECTION JUNCTIONS SHALL BE LOCATED 1.2m FROM THE DOWNSTREAM ALIGNMENT. IF THIS IS NOT POSSIBLE PROPERTY CONNECTION JUNCTIONS SHALL NOT BE GREATER THAN 3.5m FROM THE DOWNSTREAM ALIGNMENT
- REFER DRAWING No SEQ-SEW-1106-1 TO SEQ-SEW-1106-6 FOR PROPERTY CONNECTION DETAILS
- PROPERTY CONNECTION BRANCHES OF DN110 SHALL BE GRADED AT A MINIMUM OF 1 IN 60
- THE OVERT LEVEL OF THE PROPERTY CONNECTION JUNCTION SHALL NOT BE LOWER THAN THE OVERT LEVEL OF THE SEWER AT THE JUNCTION
- ALL CONNECTIONS REQUIRING TRADE WASTE REQUIRE CONNECTION TO A STRUCTURE
- MAXIMUM DEPTH TO PROPERTY CONNECTION INVERT SHALL BE 1500mm
- PROPERTY SERVICE PIPE SHALL BE POLYETHYLENE PIPE TO AS/NZS 4130 SERIES 1 PN16/SDR9 PE80B COLOURED BLACK WITH BLUE STRIPES

WATER NOTES

GENERAL NOTES

- THE MINIMUM CLEARANCE TO EXISTING SERVICES IS TO BE IN ACCORDANCE WITH THE SEQ WATER SUPPLY AND SEWERAGE DESIGN & CONSTRUCTION CODE UNLESS OTHERWISE SHOWN
- CONTRACTOR TO OBTAIN PRIOR APPROVAL OF UU AUDIT AND COMPLIANCE OFFICER FOR ANY MINOR DEVIATIONS REQUIRED TO AVOID EXISTING SERVICES
- PRESSURE & BACTERIAL TESTING TO BE CARRIED OUT IN ACCORDANCE WITH UUIWSA STANDARDS.
- NON METALLIC PIPES SHALL HAVE DETECTABLE MARKER TAPE INSTALLED. REFER TO UU STANDARDS. THE COLOURS OF MARKER TAPE MUST BE GREEN
- PIPELINES SHALL NOT BE CONSTRUCTED IN UNCONTROLLED FILL. CERTIFICATES SHALL BE LODGED WITH THE CONTRACT MANAGER AND THE UU AUDIT & COMPLIANCE OFFICER CERTIFYING THE FILL IS CONTROLLED FILL COMPACTED TO A DENSITY OF NO LESS THAN 95% OF ITS STANDARD MAXIMUM DRY DENSITY, IN ACCORDANCE WITH A.S. 1289.5.1.1.
- ALL OPEN ENDS OF DISUSED WATER MAINS MUST BE EFFECTIVELY PLUGGED
- DISUSED MAINS SHALL COMPLY WITH REQUIREMENTS SET OUT IN WSA/SEQ/UU STANDARDS
- PRIME, CAULK AND WRAP ALL BURIED FLANGES AND BOLTS WITH DENSO PETROLATUM PRODUCTS OR EQUIVALENT AS PER THE MANUFACTURER'S RECOMMENDATIONS
- TUNNEL BORE OR DIRECTIONAL DRILL UNDER EXISTING STAMPED OR REINFORCED CONCRETE DRIVEWAYS WHERE THE EXISTING SURFACE CANNOT BE MATCHED, AND UNDER SIGNIFICANT TREES AS ADVISED BY LOCAL COUNCIL
- WATER SERVICES:
 - MUST BE BYPASSED WHERE NECESSARY
 - MUST BE RECONNECTED TO NEW MAIN UPON CLEARANCE BY UU
 - ALL DN15mm SERVICES MUST BE RE-LAID IN DN20mm COPPER OR PE IN ACCORDANCE ACCORDANCE WITH SEQ WATER SUPPLY CODE
 - ALL GALVANISED IRON OR LEAD SERVICES MUST BE RE-LAID IN COPPER OR PE OF EQUIVALENT DIAMETER IN ACCORDANCE WITH SEQ WATER SUPPLY CODE.
 - MUST BE INDICATED ON 'AS CONSTRUCTED' DRAWINGS
 - PE SERVICES MUST HAVE DETECTABLE MARKING TAPE PLACED ABOVE THE EMBEDMENT. WHERE THE PE SERVICE IS PLACED INSIDE A CONDUIT, THE DETECTABLE MARKING TAPE MUST ALSO BE PLACED IN THE CONDUIT
- ALL VALVES, FIRE HYDRANTS AND SURFACE FITTINGS ON DISUSED WATER MAINS MUST BE REMOVED UNLESS NOTED OTHERWISE
- ALL FLANGES MUST BE PN16 AND IN ACCORDANCE WITH A.S. 4087 UNLESS NOTED OTHERWISE
- WHERE A METALLIC WATER MAIN IS TO BE REPLACED WITH A PLASTIC MAIN, A LICENSED ELECTRICIAN SHALL MAKE AN ASSESSMENT OF POTENTIALLY AFFECTED PROPERTY EARTHING SYSTEMS. WORK SHALL NOT COMMENCE UNTIL THE ELECTRICIAN DECLARES IN WRITING THAT IT IS SAFE TO PROCEED
- PIPE EMBEDMENT MATERIAL SHALL BE 5 TO 7mm SINGLE SIZED MATERIAL THAT COMPLIES WITH THE PURCHASE SPECIFICATION FOR EMBEDMENT MATERIALS AS NOMINATED BY UU IN THE SEQ ACCEPTED PRODUCTS & MATERIALS LIST
- COVER ON MAINS FROM PERMANENT LEVEL TO BE AS FOLLOWS:
 - 63, 100 & 150 DIAMETER PIPE - 600mm
 - 200, 250 & 300 DIAMETER PIPE - 1000mm.

MILD STEEL PIPES:

- MILD STEEL PIPES AND FITTINGS SHALL COMPLY WITH A.S.1579 AND BE CEMENT LINED IN ACCORDANCE WITH A.S.1281 UNLESS NOTED OTHERWISE
- EXTERNAL COATINGS ON THE PIPES AND FITTINGS SHALL BE FUSION BONDED MEDIUM DENSITY POLYETHYLENE COMPLYING WITH A.S.4321 (SINTAKOTE II)
- ALL MILD STEEL FITTINGS (BRANCHES ETC.) TO BE WELDED IN ACCORDANCE WITH THE SEQ WATER SUPPLY AND SEWERAGE DESIGN & CONSTRUCTION CODE

THRUST & ANCHOR BLOCKS:

- PROVIDE ANCHOR AND THRUST BLOCKS DESIGNED FOR 1200 kPa Test Pressure IN ACCORDANCE WITH THE CURRENT SEQ WATER SUPPLY AND SEWERAGE DESIGN & CONSTRUCTION CODE
- THE BEARING FACE OF THE THRUST RESTRAINT MUST BE CAST AGAINST UNDISTURBED GROUND
- CONCRETE MUST NOT SPILL OVER SOCKET JOINTS
- VERTICAL THRUST BLOCKS MUST BE EMBEDDED AT A MINIMUM OF 250mm INTO UNDISTURBED GROUND
- CONCRETE MUST BE CURED 48 HOURS (MIN) PRIOR TO CHARGING MAIN
- UNREINFORCED CONCRETE SHALL BE A MINIMUM OF N20. REINFORCED CONCRETE SHALL BE A MINIMUM OF N25.
- THE CONTRACTOR SHALL CONFIRM BEARING CAPACITY PRIOR TO CONSTRUCTION OF THRUST BLOCK. SHOULD ACTUAL GROUND CONDITIONS DIFFER TO THOSE OF THE DESIGN, RE-DESIGN FOR THRUST/ANCHOR BLOCKS MAY BE REQUIRED.

TRENCH NOTES:

- MINIMUM COVER ON MAINS FROM PERMANENT LEVEL SHALL BE THE GREATER OF SEQ WS&S DC CODE DWG. NO. SEQ-WAT-1200-2 OR BRISBANE CITY COUNCIL STANDARD DRAWINGS BSD 2042 & BSD 2043
- ROAD CROSSING, VERGES AND PATHS TRENCH RESTORATION SHALL BE IN ACCORDANCE WITH BCC STANDARD DRAWING BSD 2042 & BSD 2043
- PROVIDE 50 THICK LAYER OF BEDDING SAND IF FLOWABLE FILL CONCRETE OR OTHER LOW PERMEABLE FILL IS USED AS EMBEDMENT
- 150mm MINIMUM OVERLAY FOR NON TRAFFICABLE AND 300mm MINIMUM FOR TRAFFICABLE

DUCTILE IRON CEMENT LINED PIPES (DICTL):

- ALL DICTL PIPES AND FITTINGS TO BE WRAPPED WITH POLYETHYLENE SLEEVING AS PER THE MANUFACTURER'S RECOMMENDATIONS
- DICTL PIPES AND NON-FLANGED FITTINGS MUST BE PN35 AND COMPLY WITH A.S. 2280
- FLANGED DICTL FITTINGS SHALL BE PN16 AND COMPLY WITH A.S. 2280

WATER SERVICE, METERS AND CONDUIT NOTES

- SINGLE DWELLING SERVICE PIPE TO 20m IN LENGTH IS DN25
- SINGLE PROPERTY SERVICE PIPE OVER 20m IN LENGTH IS DN32
- TWIN PROPERTY SERVICE PIPE TO 20m IN LENGTH SHALL BE DN32 WHERE THE MAIN TAP BALL VALVE IS DN20 AND THE INDIVIDUAL PROPERTY SERVICE PIPE AFTER THE SPLITTER TEE IS DN25, REFER DETAIL SEQ-WAT-1107-1
- METER BOX INSTALLATION REFER TO SEQ-WAT-1107-3. SMALL DIAMETER METERS TO BE WRAPPED IN GEOFABRIC. METER INSTALLATION FORM TO BE PROVIDED TO MELIORA ENGINEERING BY THE CONTRACTOR AFTER THE CONTRACTOR INSTALLS METER BOX.
- PROPERTY SERVICE PIPE STAMPED IDENTIFICATION TAG (35 MIN DIA) SHALL BE STAINLESS STEEL RETAINED BY A STAINLESS STEEL PIN
- PROPERTY SERVICE PIPE, BALL VALVES, DUCTILE IRON PRE-TAPPED PROPERTY SERVICE FITTING AND ASSOCIATED FITTINGS SHALL BE JOINTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- THE MAIN TAP BALL VALVE SHALL BE LEFT IN THE FULLY OPEN POSITION
- THE WATER METER BALL VALVE WITHIN BOX SHALL BE LEFT IN THE FULLY CLOSED POSITION
- PROVIDE PROPERTY SERVICE MARKER TAPE FOR BURIED PIPE.
- ALL SERVICE CONDUITS TO BE DN100 uPVC SOLVENT WELD JOINT

URBAN UTILITIES

THIRD PARTY CERTIFICATION SCHEME ENDORSED CONSULTANT
(PLANS SUBMITTED ARE TO URBAN UTILITIES' STANDARDS AND SATISFY THE WATER APPROVAL CONDITIONS)

WATER APPROVAL REF NUMBER: 23-PNT-64086

ENDORSED CONSULTANT: DMC QLD CONSULTING PTY LTD

RPEQ NAME: DIANA CAMPBELL - 4945

RPEQ SIGNATURE:

RPEQ CONTACT DETAILS: 07 3881 2350



REFERENCE PRECEDENCE

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- DESIGN STANDARD & GUIDELINES (SEQ CODE, WSA)
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NOTE

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FOR CONSTRUCTION

				NORTH POINT	SCALE BAR(S)	DRAWN: FEB 2023	 DMC QLD CONSULTING PTY LTD ABN 52 613 919 791 PO BOX 694 BURBENBURY, QLD 4505 M: 0427 265 162 www.dmcqldconsulting.com.au	CLIENT: PROSPERITY CAPITAL PRINCIPLES PL	DRAWING TITLE: SEWER & WATER TECHNICAL NOTES	MELIORA JOB No. <h1>2270</h1>	
					DESIGNED: FEB 2023	PROJECT: 11 SHANAHAN PARADE, REDBANK PLAINS					
A	ISSUE FOR CONSTRUCTION	17.02.23	SM	MB							
REV	DESCRIPTION	DATE	DRAWN	APPR.						C52 DWG No	A REVISION

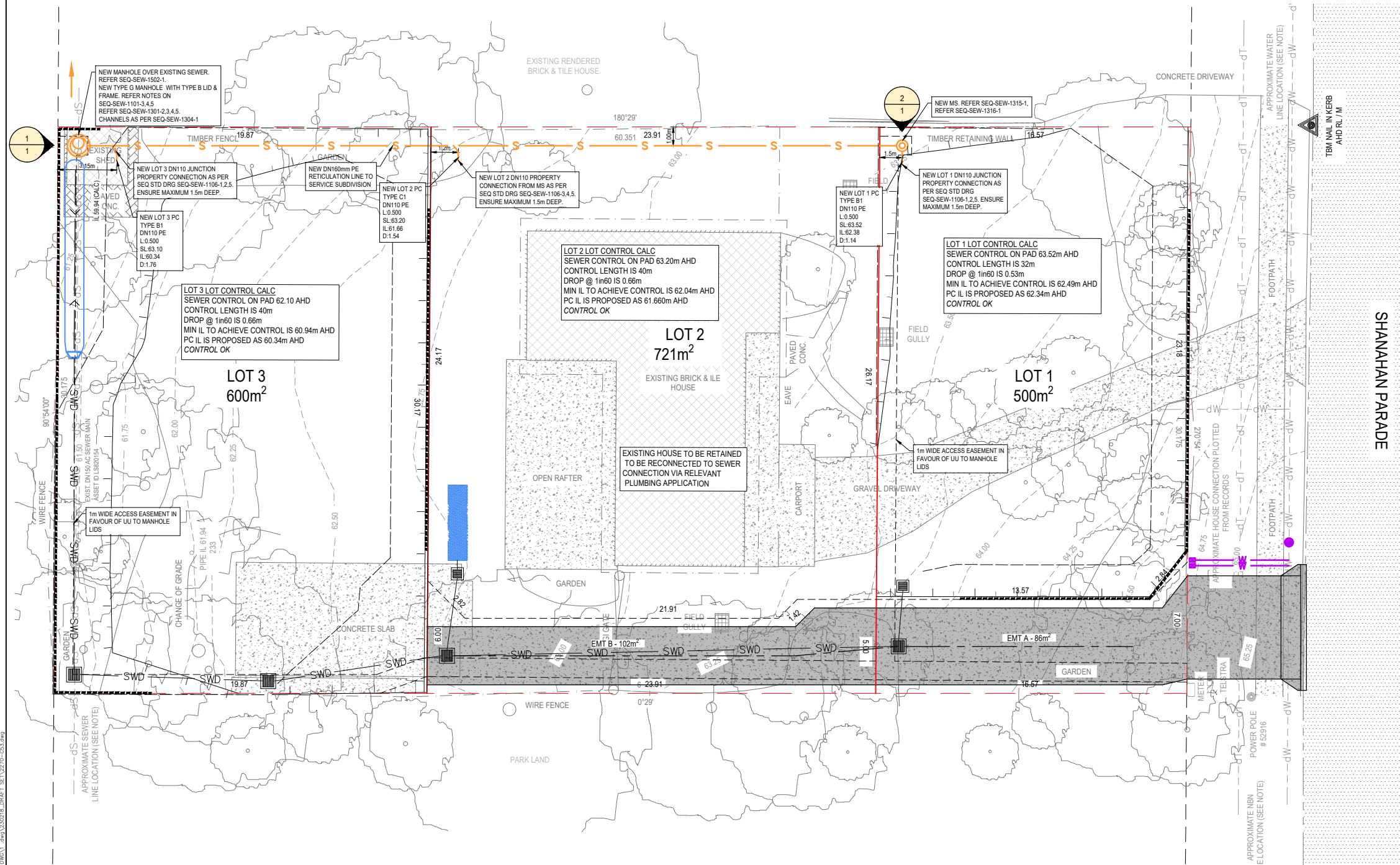
ABBREVIATIONS

- AC - ASBESTOS CEMENT
- CICL - CAST IRON CEMENT LINED
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- uPVC - UNPLASTICISED POLYVINYL CHLORIDE
- UU - URBAN UTILITIES
- VC - VITRIFIED CLAY

LEGEND - SEWERAGE

- PROPOSED SEWER MAIN CENTRELINE
- PROPOSED WATER MAIN CENTRELINE
- PROPOSED NOMINAL FACE OF KERB
- PROPOSED DRAINAGE PIPE
- PROPOSED RETAINING WALL
- ABANDONED / REMOVED SERVICE
- PROPOSED SEWER STRUCTURE LABEL
- SEWER FLOW DIRECTION (DOWNSTREAM)

NOTE: FOR CONTOURS, BOUNDARIES & EXISTING FEATURES LEGEND REFER TO DRG No. C50



EXISTING SERVICES DATA NOTE - CAUTION!!!

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- EXISTING GAS, FIBRE OPTIC, ELECTRICAL & TELECOM CABLES MAY EXIST IN THE VICINITY OF REQUIRED WORKS. REFER TO AUTHORITY REQUIREMENTS PRIOR TO CONSTRUCTION, WHICH MAY INCLUDE HAND DIG (POT HOLE) AND QL-A SERVICE LOCATION BY AN ACCREDITED PLANT LOCATOR
- AT ALL PROPOSED SERVICE CROSSING, SERVICE LOCATION IS TO BE DONE BY NON-DESTRUCTIVE EXCAVATION TO FULLY EXPOSE ALL SERVICES A MINIMUM 10 DAYS PRIOR TO THE START OF WORKS ON SITE. SERVICE LOCATION TO BE QUALITY LEVEL A (QL-A) IN ACCORDANCE WITH THE WORKPLACE HEALTH AND SAFETY (EXCAVATION WORK) CODE OF PRACTICE 2015 AND ASS488-2013.
- WHILST EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE INFORMATION PROVIDED IN THIS DRAWING/DESIGN WAS ACCURATE AT THE TIME IT WAS COMPILED, IT REMAINS THE RESPONSIBILITY OF PROPERTY OWNERS AND THEIR CONTRACTORS, TO MAKE ALL REASONABLE EFFORT TO ASCERTAIN THE PRECISE LOCATION OF EXISTING INFRASTRUCTURE WITHIN THE EXTENT OF WORKS BEFORE UNDERTAKING EXCAVATION OR CONSTRUCTION WORK
- USERS OF THE INFORMATION SHOULD BE AWARE THAT SINCE THE ORIGINAL RECORDING OF THE DEPTHS IN RELATION TO GROUND LEVELS, CHANGES MAY HAVE OCCURRED AS A RESULT OF NSUBSEQUENT WORK OR ACTIVITIES INVOLVING FILLING OR EXCAVATION THAT HAVE AFFECTED SURFACE LEVELS. CONSEQUENTLY, MELIORA ENGINEERING AND URBAN UTILITIES TAKES NO RESPONSIBILITY FOR ANY APPARENT ERROR OR INACCURACIES THAT ARE SHOWN AS DEPTH FROM SURFACE DATA AS AT THE DATE INFORMATION WAS PROVIDED OR AT A LATER DATE. THE ABOVE ALSO APPLIES TO LOCATION AND DEPTH OF OTHER PRIVATE OR PUBLIC UTILITIES.

THIS PROJECT REQUIRES ADAC XML
THE CONTRACTOR IS TO ALLOW FOR AND MUST ENSURE THE PRESENCE OF SURVEYOR IN ORDER TO PERFORM THE NECESSARY ADAC SURVEYS DURING CONSTRUCTION AND SUBSEQUENT DEVELOPMENT OF UU COMPLIANT XML FILE

URBAN UTILITIES
THIRD PARTY CERTIFICATION SCHEME ENDORSED CONSULTANT
(PLANS SUBMITTED ARE TO URBAN UTILITIES' STANDARDS AND SATISFY THE WATER APPROVAL CONDITIONS)

WATER APPROVAL REF NUMBER: 23-PNT-64086
ENDORSED CONSULTANT: DMC QLD CONSULTING PTY LTD
RPEQ NAME: DIANA CAMPBELL - 4945
RPEQ SIGNATURE:
RPEQ CONTACT DETAILS: 07 3881 2350

EXISTING SEWER PC SEAL
CONTRACTOR TO ALLOW TO LOCATE AND SEAL EXISTING SEWER PROPERTY CONNECTION THAT SERVES THE EXISTING HOUSE

REFERENCE PRECEDENCE
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SEWER LONGITUDINAL SECTIONS
REFER TO MELIORA ENGINEERING DRG No. C54

SEWER NOTES
REFER TO MELIORA ENGINEERING DRG No. C50 & C51

PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE ENTIRE LOT AT GRADE 1in60 AT A MAXIMUM DEPTH OF PROPERTY CONNECTION OF 1.50m (SUD) AND 1in80 AT MAX. DEPTH OF 3m (MUD). FOR JUNCTION DETAILS REFER SEQ-SEW-1106-1 TO SEQ-SEW-1106-6

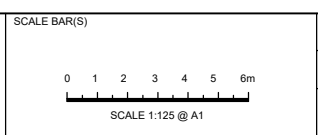
No.	DESCRIPTION
1(A)	CONTRACTOR TO CONSTRUCT NEW MAINTENANCE HOLE 1/1 OVER EXISTING SEWER AND BENCH AND RENDER UP TO PIPE BUT NOT REMOVE CROWN OF PIPE.
1(B)	CONTRACTOR TO LAY LINE 1 AND INSTALL HOUSE CONNECTIONS.
1(C)	CONTRACTOR TO REMOVE CROWN OF PIPE AND COMPLETE BENCHING AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION OF LINE 1.

NOTE: WHERE NEW SEWERS ARE TO BE LAID OFF NEW OR EXISTING STUBS ON EXISTING MAINTENANCE HOLES, THE FIRST SHORT PIPE IS TO BE AN I.O. PIPE. PLUGGING AND UNPLUGGING OF THE EXISTING SYSTEM IS TO BE CARRIED OUT BY CONTRACTOR, FOLLOWING TESTING AND APPROVAL OF THE NEW CONSTRUCTION, THE I.O. PIPE IS TO BE CONCRETE SURROUNDED.



NOTE
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REV	DESCRIPTION	DATE	DRAWN	APPR.
A	ISSUE FOR CONSTRUCTION	17.02.23	SM	MB



DRAWN: FEB 2023
DESIGNED: FEB 2023



CLIENT: PROSPERITY CAPITAL PRINCIPLES PL
PROJECT: 11 SHANAHAN PARADE, REDBANK PLAINS

DRAWING TITLE: SEWER LAYOUT PLAN

MELIORA JOB No. **2270**
DWG No. **C53**
REVISION **A**

FOR CONSTRUCTION

SEQ DESIGN NOTES

- NOTE
- ALL LEVELS, CHAINAGES & DISTANCES IN METRES
 - REFER SEQ-SEW-1200 SERIES FOR BEDDING & BACKFILL REQUIREMENTS.
 - REFER SEQ-SEW-1300 SERIES FOR MAINTENANCE STRUCTURE TYPES AND DROPS AND FOR NUSEWER COMPLIANT APPURTENANCES.
 - PIPE MATERIAL TO BE SPECIFIED AS REQUIRED BY NUSEWERS (PE).
 - REFER SEQ-SEW-1106 SERIES FOR PROPERTY CONNECTION TYPES.
 - DETAILS OF COMPOUND BENDS ARE TO BE SHOWN ON DESIGN DRAWINGS.

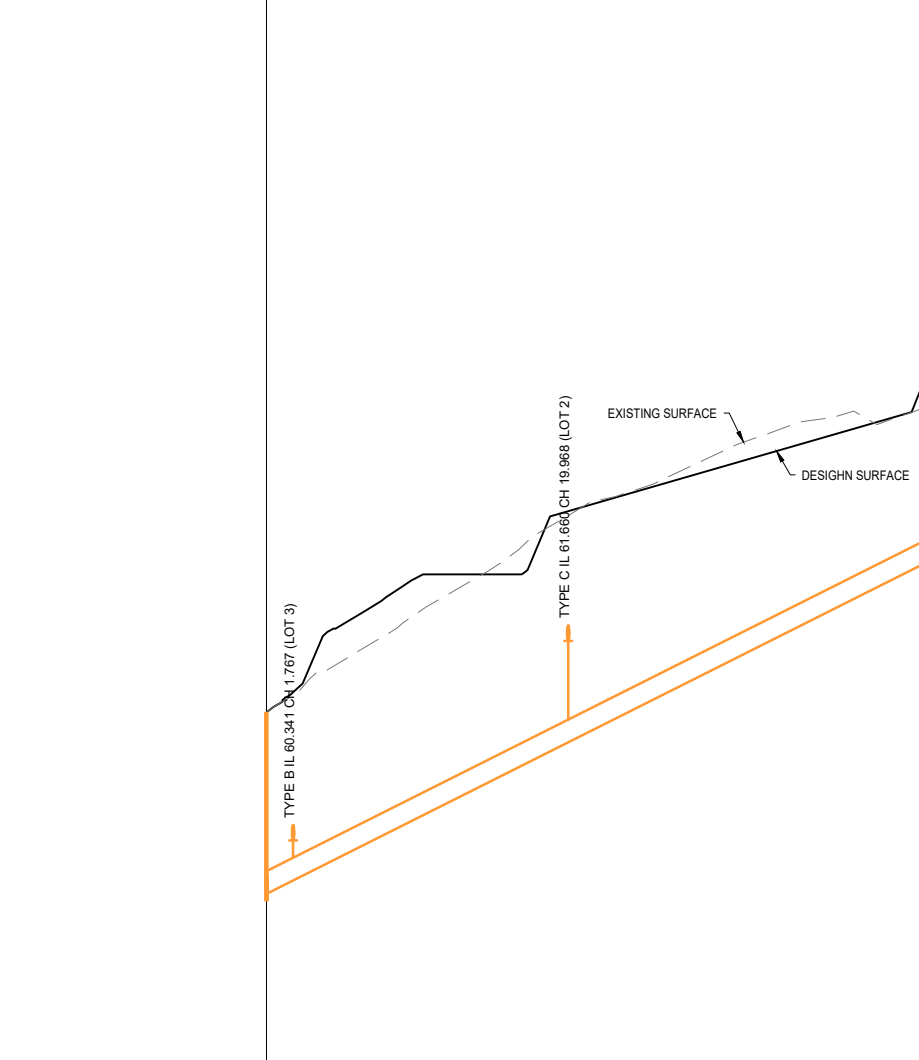
LEGEND

- FP = VERGE
 PP - PRIVATE PROPERTY
 R = BEND RADIUS (HOR, VERT, COMP)
 SRB = SHORT RADIUS BEND - 0.75 RADIUS
 L = BEND LENGTH
 MH = MAINTENANCE HOLE
 MS = MAINTENANCE SHAFT
 PC = PROPERTY CONNECTION
 TEP = TERMINAL ENTRY POINT

MAINTENANCE HOLE TYPES

- G = CONCRETE 0.9000 ID (<DN250mm PIPE ONLY, NO DROP, 3m MAX)
 F = CONCRETE 1.2000 ID (>3m DEPTH & LESS THAN OR EQUAL TO 4.25m)
 X = CONCRETE 1.2000 ID (DN300mm OR MORE PIPE)
 MS = PE 0.6000 ID, 5m MAX
 (PRECAST MANHOLES ARE NOT ACCEPTABLE FOR UU)

MH/MS No.	1/1		
MH/MS COVER TYPE	B		
MH/MS TYPE	G		MS
BRANCH DROP TYPE	A		
BRANCH LINE No.			
PROPERTY CONNECTION TYPE			B



DATUM RL 58.7	
PROPERTY DESCRIPTION	PP
PIPE NOMINAL DIAMETER (DN) TYPE	DN160 PE100 SDR21
GRADE (1inX)	19.926
PIPE LENGTH	43.876
EMBEDMENT TYPE	TYPE 4
DEPTH OF INVERT BELOW FSL	1.200
INVERT LEVEL (IL)	59.986
FINISHED SURFACE LEVEL (FSL)	61.186
EXISTING SURFACE LEVEL (ESL)	61.186
CHAINAGE (CH)	0.000

SEWER LONGITUDINAL SECTION FOR LINE 1
 SCALES: HORIZONTAL 1:250 VERTICAL 1:25

URBAN UTILITIES
 THIRD PARTY CERTIFICATION SCHEME ENDORSED CONSULTANT
 (PLANS SUBMITTED ARE TO URBAN UTILITIES' STANDARDS AND SATISFY THE WATER APPROVAL CONDITIONS)

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 RPEQ NAME: DIANA CAMPBELL - 4945
 RPEQ SIGNATURE:
 RPEQ CONTACT DETAILS: 07 3881 2350

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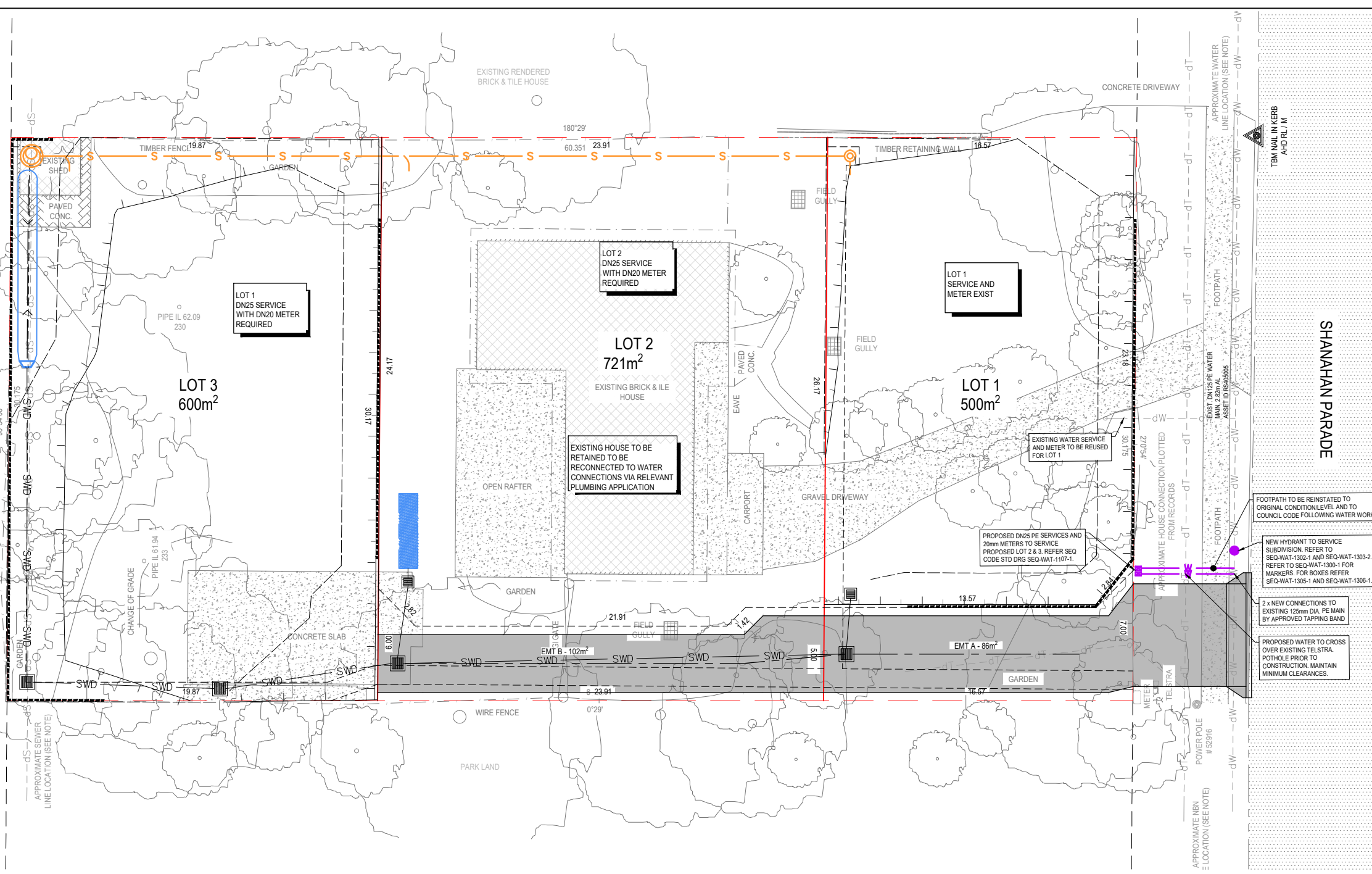
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FOR CONSTRUCTION

NORTH POINT		SCALE BAR(S)		DRAWN: JAN 2023		CLIENT: PROSPERITY CAPITAL PRINCIPLES PL		DRAWING TITLE: SEWER LONGITUDINAL SECTION & DETAILS		MELIORA JOB No. 2270	
				DESIGNED: JAN 2023		PROJECT: 11 SHANAHAN PARADE, REDBANK PLAINS				C54	
				APPROVED: MBL YTH RPEQ SIGNATURE		APPROVED: RPEQ SIGNATURE				A	
				DATE: FEB 2022		DATE: FEB 2022				REVISION	
A ISSUE FOR CONSTRUCTION		17.02.23		SM		MB				A	
REV DESCRIPTION		DATE		DRAWN		APPR.				DWG No	

MELIORA CONSULTING ENGINEERS
 48/49 533 772 833
 E: INFO@MELIORACE.COM

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 ABRN 32 653 910 791
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 BURBENBURY, QLD 4305
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- ABBREVIATIONS**
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- LEGEND - SEWER & WATER**
- PROPOSED RETAINING WALL
 - PROPOSED ROAD CENTERLINE
 - PROPOSED DRAINAGE CENTERLINE
 - PROPOSED SEWER CENTERLINE
 - PROPOSED WATER CENTERLINE
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ASSET REGISTER - WATER INFRASTRUCTURE

MAINS	DIAMETER	MATERIAL		LENGTH	
		DESIGN	CONST	DESIGN	CONST
	63mm	MDPE			
	100mm	UPVC			
	150mm	UPVC			
SERVICES	20	PE			
	25	PE		10m	
	100	PE			
METERS	DIAMETER		NUMBER		
	20				
	25	2			
	100				

FURTHER WATER DETAILS
REFER TO MELIORA ENGINEERING DRG No. C56

WATER NOTES
REFER TO MELIORA ENGINEERING DRG No. C50 & C51

UU METER ASSEMBLIES
IN THE NOMINATED LOCATIONS SHOWN ON PLANS, AND 1m CLEAR FROM ANY ELECTRICAL PILLARS, A UU APPROVED WATER METER ASSEMBLY SUPPLIED AT THE DEVELOPER'S COST AND DELIVERED TO SITE BY UU, IS TO BE INSTALLED AT THE SERVICE POINT OF EACH LOT BY CONTRACTOR IN ACCORDANCE WITH THE STANDARD DRAWING FOR THE SEQ-SP. UU METER ASSEMBLIES ARE OWNED BY UU. SMALL DIAMETER METER BOXES ARE TO BE WRAPPED IN GEOTEXTILE TO ENSURE SURROUNDING MATERIAL DOES NOT INGRESS INTO THE METER BOX.

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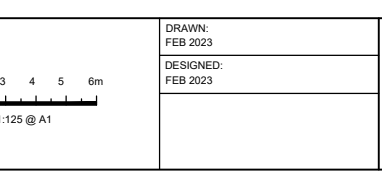
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CLIENT: PROSPERITY CAPITAL PRINCIPLES PL
PROJECT: 11 SHANAHAN PARADE, REDBANK PLAINS

DRAWING TITLE: WATER LAYOUT PLAN

MELIORA JOB No. **2270**

DWG No. **C55** REVISION **A**