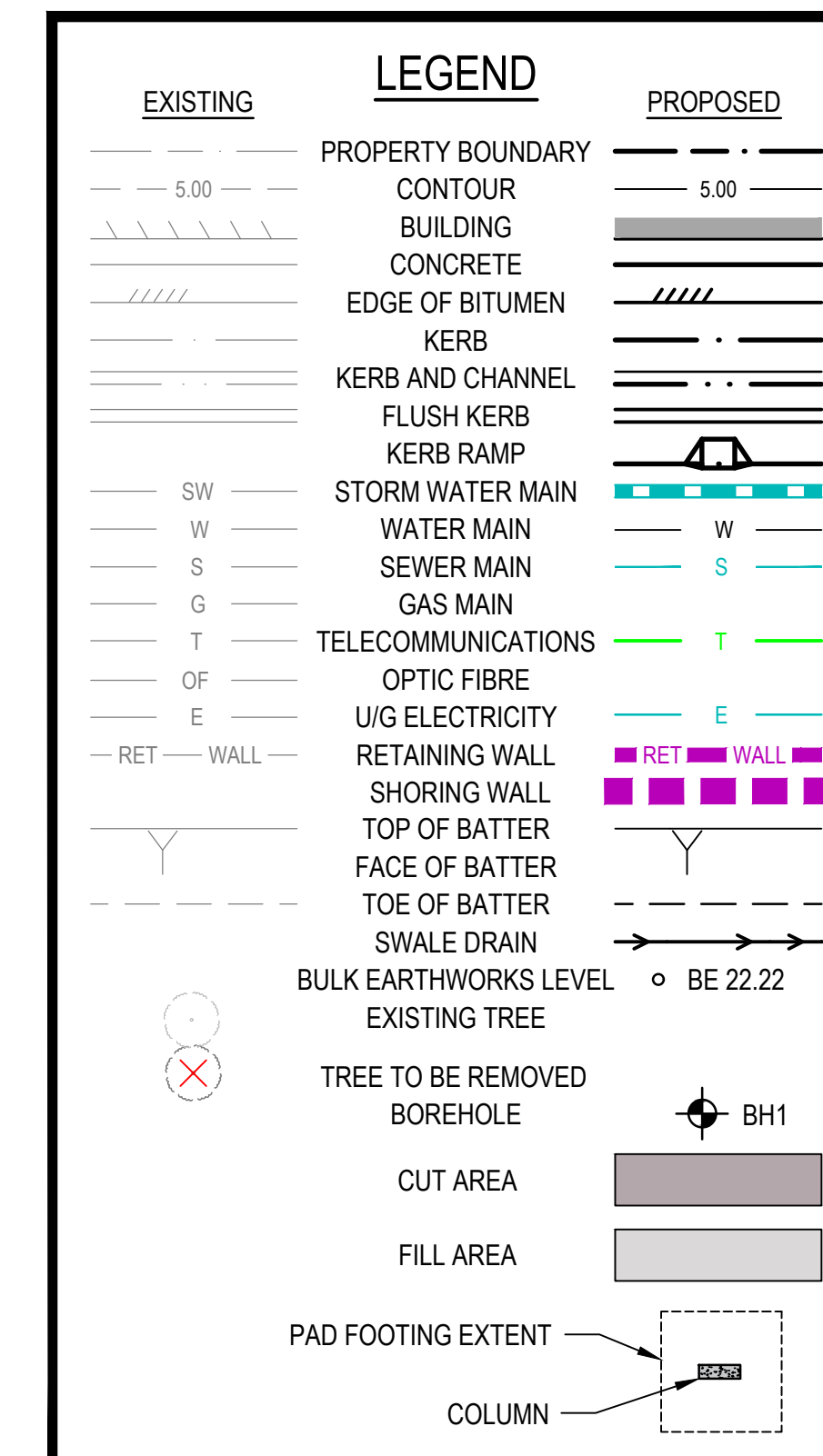




SLAB THICKNESS VARIES
REFER TO STRUCTURAL ENGINEERS SLAB ON
GROUND DRAWING FOR CHANGES IN BASEMENT
SLAB THICKNESS.
REFER TO MPN DRAWING S2.01.02 FOR DETAILS.

<u>EARTHWORKS TABLE</u>	STRIP (m³) (200 DEEP)	CUT (m³)	FILL (m³)	EXPORT (m³)
SITE EARTHWORKS	620	26,450	10	27,060

E	03.04.23	FOR APPROVAL	TTM	L
D	14.03.23	FOR APPROVAL	TTM	L
C	17.02.23	UNDER-SLAB DRAINAGE COORDINATION	TTM	L
B	03.02.23	FOR COMPLIANCE ASSESSMENT	TTM	L
A	23.01.23	ISSUE FOR COORDINATION	TTM	L
ISSUE	DATE	AMENDMENT	BY	APPROVED

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CLIENT:  **NORTHWEST**
HEALTHCARE PROPERTIES

RDX

LOT 6A NEXUS WAY
SOUTHPORT, QLD 4215

BULK EARTHWORKS

DESIGN: TTM	DRAWN: TTM	SCALES: AS SHOWN
CHKD: LS	APPRD: LS	DATE: 03.02.2023

mpn JOB 9541	DRAWING No. BE.1.01	REV E
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FOR APPROVAL

NOT EOP CONSTRUCTION

FSL = FINISHED SLAB/SURFACE LEVEL
FFL = FSL + FLOORING (E.G. TILES)
REFER ARCHITECTURAL DRAWINGS FOR ALL
FINISHED FLOOR LEVELS AND FALLS

CUT/FILL VOLUMES NOTED ARE BULK
QUANTITIES COMPACTED IN PLACE. NO
ALLOWANCE FOR BULKING FACTORS OR
COMPACTION RATIOS HAS BEEN MADE.

EXISTING FEATURES TO BE REMOVED ARE SHOWN IN GREY FOR REFERENCE

CAUTION:
EXISTING SERVICES IN PROXIMITY TO WORKS
TO BE LOCATED PRIOR TO WORKS
COMMENCING

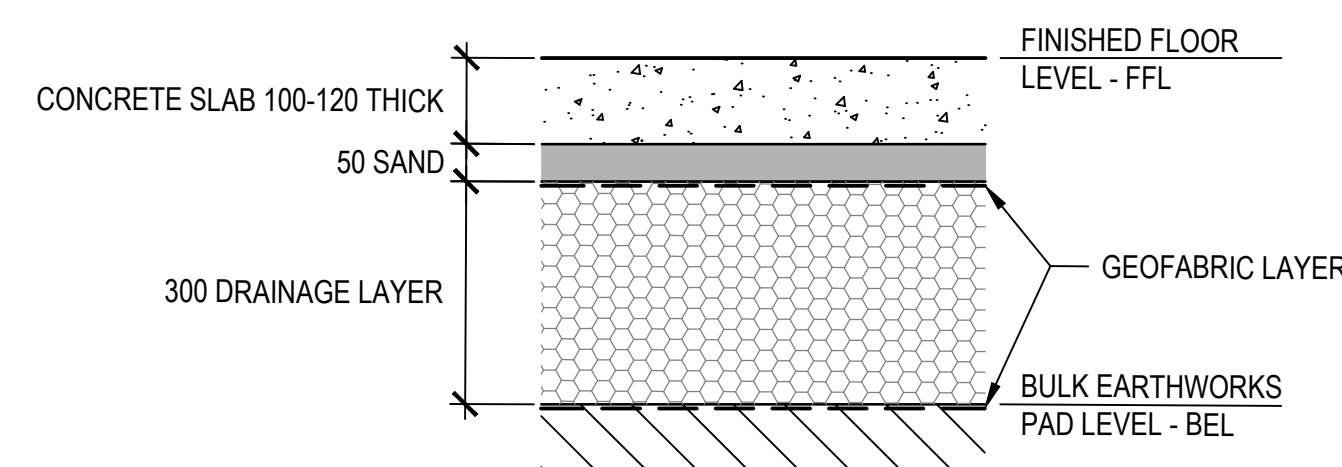
CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: LACHLAN STEPHENSON
(RPEQ 16903)
TELEPHONE: (07) 3335 4595

DATE 03.02.2023

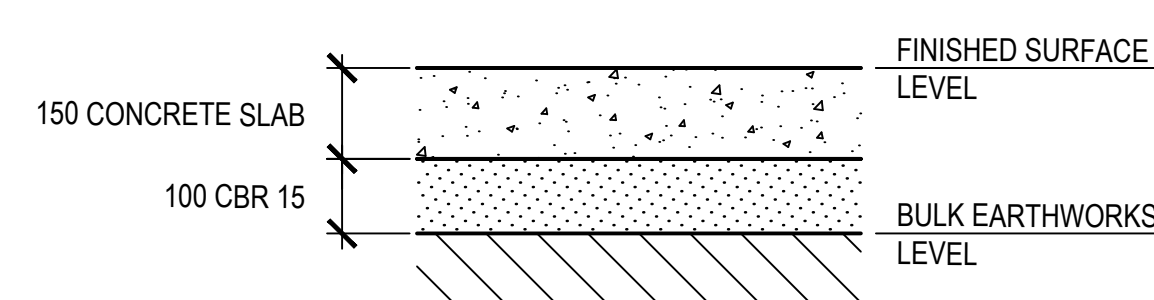
COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2022/1310/4
Condition no: 18 & 19
Date: 28/04/2023

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL Approval no: DEV2024/1481 Date: 14/04/2026	
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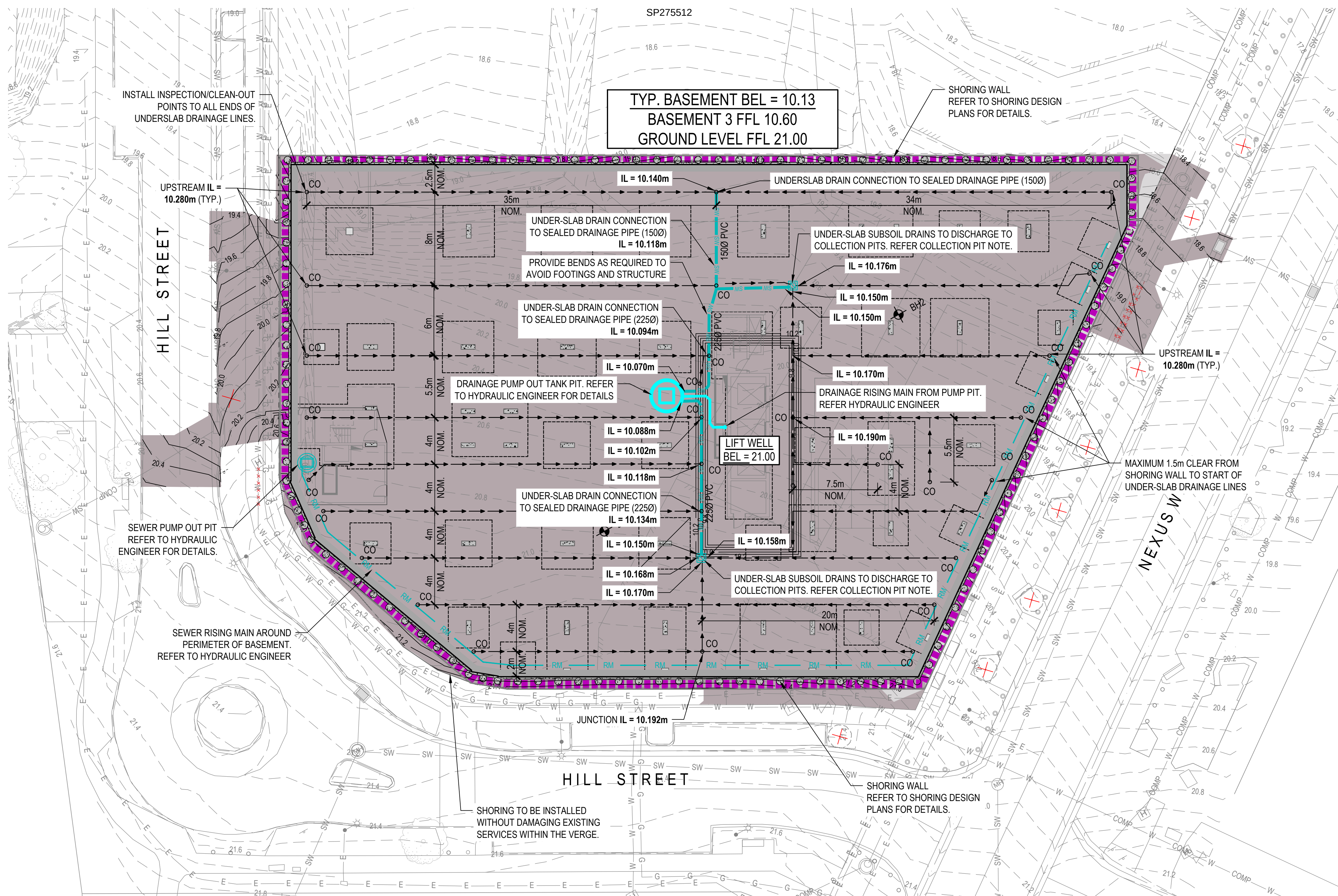


TYPICAL BASEMENT WORKING PLATFORM DETAIL
N.T.S.
* REFER TO STRUCTURAL DRAWING S1.00.01 FOR ADDITIONAL DETAILS



TYPICAL PAVEMENT DETAIL WORKING PLATFORM DETAIL
N.T.S.





TYP. BASEMENT BEL = 10.13
BASEMENT 3 FFL 10.60
GROUND LEVEL FFL 21.00

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2024/1481
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DEVELOPMENT APPROVAL
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Condition no: 18 & 19
Date: 28/04/2023

LEGEND

EXISTING	PROPOSED
5.00	5.00
PROPERTY BOUNDARY	CONTOUR
BUILDING	CONCRETE
EDGE OF BITUMEN	KERB
KERB AND CHANNEL	FLUSH KERB
UNDERSLAB DRAINS	COLLECTOR DRAINAGE
PLUMBING	SW
STORM WATER MAIN	WATER MAIN
SEWER MAIN	GAS MAIN
TELECOMMUNICATIONS	OPTIC FIBRE
U/G ELECTRICITY	SHORING WALL
TOP OF BATTER	FACE OF BATTER
TOE OF BATTER	TOE OF BATTER
BULK EARTHWORKS LEVEL	BE 22.22
EXISTING TREE	TREE TO BE REMOVED
BOREHOLE	CUT AREA
FILL AREA	PAD FOOTING EXTENT
COLUMN	

UNDER-SLAB DRAINS
ALL UNDER-SLAB DRAINS TO BE 150mm DIAMETER SLOTTED PVC PIPES U.N.O.
DRAINS TO BE BEDDED IN MINIMUM 20mm DRAINAGE GRAVEL AND HAVE CONTINUOUS FALL TO SUMP - MINIMUM FALL 0.4%
COLLECTOR DRAINAGE PIPES TO BE SEALED PVC (NO SLOTS) GRADED AT MINIMUM 0.5% TO SUMP PIT.
INVERT LEVELS (IL) PROVIDED ARE TO JUNCTION POINTS AND CONNECTION POINTS TO PITS

COLLECTION PIT NOTES:
UNDER-SLAB SUBSOIL DRAINS TO DISCHARGE TO 600x600 TYPE 2A COLLECTION PITS. REFER IPWEA STANDARD DRAWING DS-050. PIT GRATES ARE TO BE HEELSAFE, CLASS 'D'

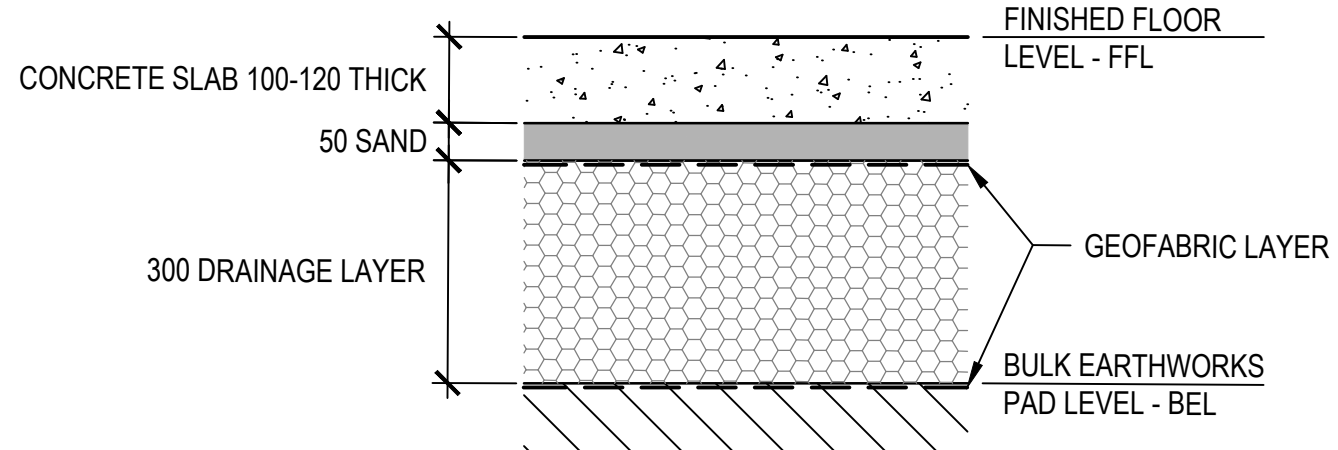
SLAB THICKNESS VARIES
REFER TO STRUCTURAL ENGINEERS SLAB ON GROUND DRAWING FOR CHANGES IN BASEMENT SLAB THICKNESS. REFER TO MPN DRAWING S2.01.02 FOR DETAILS.

FSL = FINISHED SLAB/SURFACE LEVEL
FSL = FSL + FLOORING (E.G. TILES)
REFER ARCHITECTURAL DRAWINGS FOR ALL FINISHED FLOOR LEVELS AND FALLS

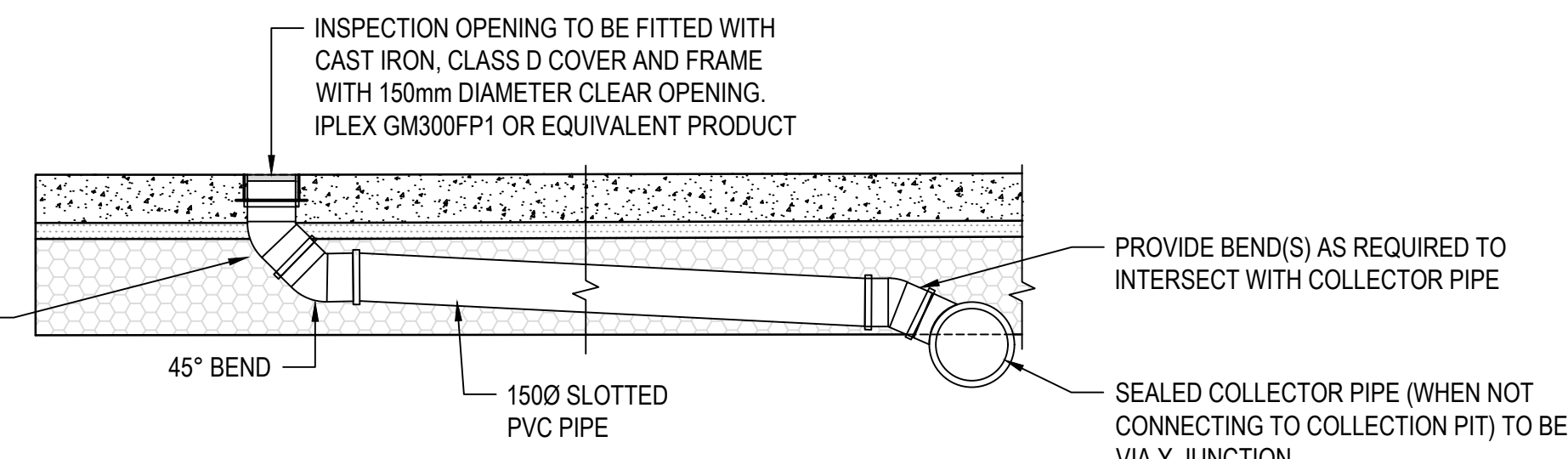
EXISTING FEATURES TO BE REMOVED ARE SHOWN IN GREY FOR REFERENCE

CAUTION:
EXISTING SERVICES IN PROXIMITY TO WORKS TO BE LOCATED PRIOR TO WORKS COMMENCING

CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: LACHLAN STEPHENSON (RPEQ 16903)
TELEPHONE: (07) 3335 4595
DATE 14.03.2023



TYPICAL BASEMENT WORKING PLATFORM DETAIL
N.T.S.
REFER TO STRUCTURAL DRAWING S1.00.01 FOR ADDITIONAL DETAILS



ELEVATION OF CLEANOUT / COLLECTOR PIPE JUNCTION
SCALE 1:20

0 0.2 0.4 0.6 0.8 1.0
SCALE 1:20 (A1) 1:40 (A3)

NOT FOR CONSTRUCTION

ISSUE	DATE	AMENDMENT	BY	APP
D	20.04.23	FOR APPROVAL	TTM	LS
C	03.04.23	FOR APPROVAL	TTM	LS
B	14.03.23	FOR APPROVAL	TTM	LS
A	17.02.23	UNDER-SLAB DRAINAGE COORDINATION	TTM	LS

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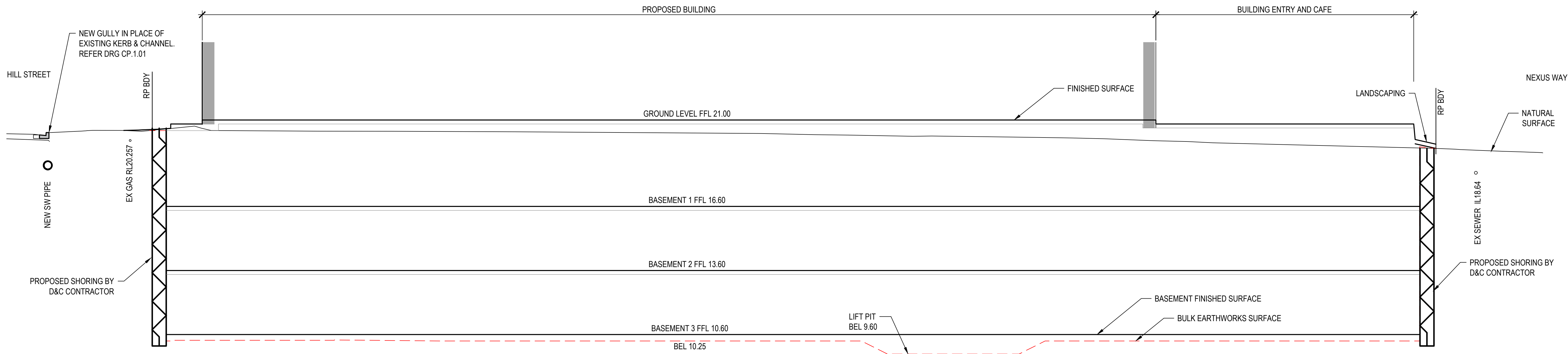
CLIENT: **NORTHWEST**
HEALTHCARE PROPERTIES

RDX
LOT 6A NEXUS WAY
SOUTHPORT, QLD 4215

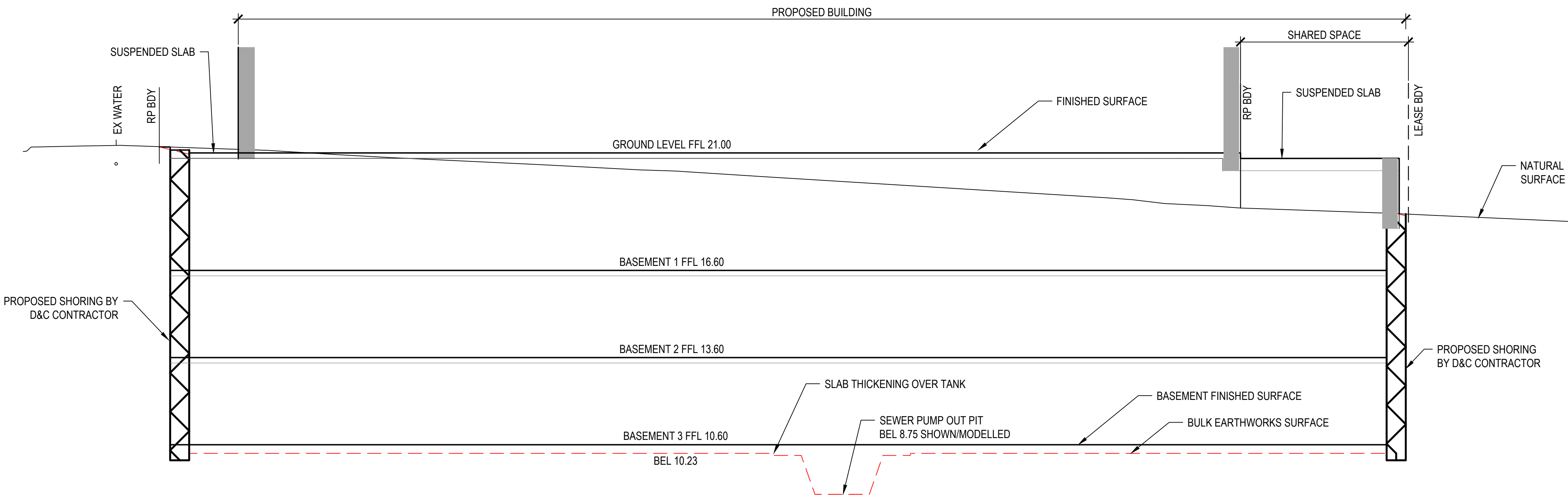
**BASEMENT 3
UNDER-SLAB DRAINAGE**

DESIGN: TTM	DRAWN: TTM	SCALE: AS SHOWN
CHKD: LS	APPROD: LS	DATE: 03.02.2023
mpn JOB	DRAWING No.	REV
9541	BE.1.02	D

FOR APPROVAL



2 SECTION
SCALE 1:100



1 SECTION
SCALE 1:100

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2024/1481
Date: 14/04/2026

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2022/1310/4
Condition no: 18 & 19
Date: 28/04/2023

0 1 2 3 4 5
SCALE 1:100 (A1) 1:200 (A3)

CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: LACHLAN STEPHENSON
(RPEQ 16903)
TELEPHONE: (07) 3335 4595
DATE 03.02.2023

ISSUE	DATE	AMENDMENT	BY	APP
C	03.04.23	FOR APPROVAL	TTM	LS
B	03.02.23	FOR COMPLIANCE ASSESSMENT	TTM	LS
A	23.01.23	ISSUE FOR COORDINATION	TTM	LS

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CLIENT: NORTHWEST
HEALTHCARE PROPERTIES

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BULK EARTHWORKS
SECTIONS

DESIGN: TTM	DRAWN: TTM	SCALES: AS SHOWN
CHKD: LS	APPRD: LS	DATE: 03.02.2023

mpn JOB	DRAWING No.	REV
9541	BE.2.01	C

FOR APPROVAL

NOT FOR CONSTRUCTION

RDX
LOT 6A NEXUS WAY
SOUTHPORT, QLD, 4216
CIVIL ENGINEERING DRAWINGS
DESIGNED BY:
mpn consulting

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2024/1481
Date: 14/04/2026



COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2022/1310/4
Condition no: 18 & 19
Date: 28/04/2023



DRAWING REGISTER

DWG. No.	DRAWING TITLE
CN.0.01	COVER SHEET
CN.0.02	CONSTRUCTION NOTES
ES.0.01	EROSION AND SEDIMENT CONTROL NOTES
ES.1.01	EROSION AND SEDIMENT CONTROL LAYOUT PLAN
BE.1.01	BULK EARTHWORKS
BE.1.02	BASEMENT 3 UNDER-SLAB DRAINAGE
BE.2.01	BULK EARTHWORKS SECTIONS
CP.1.01	CIVIL WORKS PLAN
CP.2.01	CIVIL WORKS DETAILS
PV.1.01	PAVEMENT TYPES PLAN
LM.1.01	LINEMARKING AND SIGNAGE PLAN - GROUND
LM.1.02	LINEMARKING AND SIGNAGE PLAN - BASEMENT 1
LM.1.03	LINEMARKING AND SIGNAGE PLAN - BASEMENT 2
LM.1.04	LINEMARKING AND SIGNAGE PLAN - BASEMENT 3
SW.3.01	STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET
SW.3.02	STORMWATER DRAINAGE LONGSECTIONS - EXTERNAL
SW.5.01	STORMWATER DRAINAGE CATCHMENT PLAN
SW.5.02	STORMWATER DRAINAGE CALCULATIONS
SR.0.01	SEWER RETICULATION COVER SHEET
SR.1.01	SEWER RETICULATION PLAN
SR.3.01	SEWER RETICULATION LONGITUDINAL SECTION
WR.0.01	WATER RETICULATION COVER SHEET
WR.1.01	WATER RETICULATION PLAN
WR.1.02	WATER RETICULATION PLAN - SITE COMPOUND CONNECTION
WR.2.01	WATER RETICULATION DETAILS



LOCALITY PLAN
NTS

LOCAL AUTHORITY: GOLD COAST CITY COUNCIL & EDQ
APPLICATION NUMBER: DEV2022/1310
DECISION DATE: 19/12/22

CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: LACHLAN STEPHENSON
(RPEQ 16903)
TELEPHONE: (07) 3335 4595

DATE 03.02.2023

C	03.04.23	FOR APPROVAL	TTM	LS
B	03.02.23	FOR COMPLIANCE ASSESSMENT	TTM	LS
A	23.01.23	ISSUE FOR COORDINATION	JC	LS

ISSUE	DATE	AMENDMENT	BY	APP
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CLIENT: **NORTHWEST**
HEALTHCARE PROPERTIES

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COVER SHEET

DESIGN: TTM	DRAWN: TTM	SCALES: AS SHOWN
CHKD: LS	APPRD: LS	DATE: 03.02.2023
mpn JOB	DRAWING No.	REV
9541	CN.0.01	C

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NOT FOR CONSTRUCTION

GENERAL NOTES

PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR IS TO IDENTIFY AND BE SATISFIED OF THE CORRECT LOCATION OF ALL EXISTING SERVICES WHETHER INDICATED OR NOT ON THE PLANS. ANY DAMAGE TO EXISTING SERVICES IS TO BE RECTIFIED AT THE CONTRACTOR'S EXPENSE.

ANY WORK ON EXISTING SERVICES THAT REQUIRE RELOCATION BY AUTHORITIES SHALL BE CARRIED OUT BY THE RELEVANT AUTHORITY BUT WITHIN TERMS OF THE CONTRACT AND SHALL BE CO-ORDINATED BY THE CONTRACTOR.

PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR WILL PROVIDE SCOUR AND EROSION PROTECTION INCLUDING PROVISION OF SEDIMENT TRAPS AND FENCES TO MINIMISE DEPOSITION OF MATERIAL ONTO DOWNSTREAM OF THE PROPERTY AS INDICATED ON THE DRAWINGS.

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER WORKING DRAWINGS, SPECIFICATIONS AND REPORTS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF CONSTRUCTION. ALL DISCREPANCIES AND VARIATIONS SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL LEVELS ARE TO BE TO A.H.D LEVEL DATUM. P.S.M. SURVEY ORIGIN IS PERMANENT BENCHMARK NO. PM200150, RL 25.253m AHD LOCATED IN NORTHEAST CORNER OF SITE. REFER SURVEY PLAN FOR DETAILS AND CONTACT BENNETT + BENNETT ON Ph. 07 5631 8000 FOR MORE INFORMATION.

A SOILS INVESTIGATION HAS BEEN CARRIED OUT BY SOIL SURVEYS ENGINEERING PTY LTD, REFERENCE No. 2-15299, 2021-13-01, BR VER 3, DATED FEB, 2022 THIS REPORT MUST BE READ IN ITS ENTIRETY PRIOR TO CONSTRUCTION BEING UNDERTAKEN.

ALL WORK TO CONFORM TO CITY OF GOLD COAST STANDARDS AND SPECIFICATIONS UNLESS OTHER WISE SHOWN ON PLANS OR DIRECTED BY THE SUPERINTENDENT.

SETOUT OF CARPARK BAYS AND AISLES BY ARCHITECT'S U.N.O.

ALL 'WORKS AS CONSTRUCTED' INFORMATION SHALL BE SUPPLIED IN BOTH HARD COPY AND ELECTRONIC DATA FORMAT TO THE RELEVANT AUTHORITIES REQUIREMENTS.

DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.

'U.N.O.' STANDS FOR UNLESS NOTED OTHERWISE.

IN CASE OF DOUBT, ASK!

IMPORTANT SAFETY NOTICE

MPN CONSULTING PTY LTD RECOGNISES THE IMPORTANCE OF OCCUPATIONAL HEALTH AND SAFETY. HOWEVER, MPN CONSULTING PTY LTD HAS NOT BEEN ENGAGED TO DEVELOP, CHECK, SUPERVISE OR CONTROL WORKERS OR METHODS OF WORK.

MPN CONSULTING PTY LTD DOES NOT HAVE THE CAPACITY OR AUTHORITY TO CONTROL WORKERS OR METHODS OF WORK.

NOTHING IN THESE DESIGNS SHOULD BE INTERPRETED AS GOING BEYOND THE STRUCTURAL INTEGRITY OF THE SUBJECT MATTER OF THE DESIGNS AND THEY SHOULD NOT BE USED AS AN INDICATOR OF THE APPROPRIATE METHODS OF WORK ON, IN OR AROUND THE SUBJECT MATTER.

CONCERNS ABOUT THE CONDUCT OF WORKERS OR METHODS OF WORK SHOULD BE RAISED WITH THE APPROPRIATE SAFETY OFFICIAL ON SITE.

PEDESTRIAN SURFACES

ALL SURFACES SUBJECT TO PEDESTRIAN TRAFFIC SHALL MEET THE MINIMUM PENDULUM OR RAMP RECOMMENDATIONS CONTAINED IN TABLE 3 OF AUSTRALIAN STANDARD HANDBOOK HB197:1999 - AN INTRODUCTORY GUIDE TO THE SLIP RESISTANCE OF PEDESTRIAN SURFACE MATERIALS. COMPLIANCE WITH THE RECOMMENDATIONS SHALL BE VERIFIED BY TESTING TO EITHER:- AS/NZS 4586:2004 - SLIP RESISTANCE CLASSIFICATIONS OF NEW PEDESTRIAN SURFACE MATERIALS, OR AS/NZS 4663:2004 - SLIP RESISTANCE MEASUREMENT OF EXISTING PEDESTRIAN SURFACES AS APPROPRIATE. IN BOTH INSTANCES COMPLIANCE SHALL BE DEMONSTRATED BY APPLYING CLAUSE 5.3 - MEANS OF DEMONSTRATING COMPLIANCE OF AS/NZS 4586:2004 - SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS.

IN GENERAL, THE CLASSIFICATION OF A SURFACING MATERIAL OR FINISH SHALL BE MADE ON A WORST CASE BASIS AS DETERMINED BY PENDULUM TESTING USING BOTH THE FOUR S AND TRL RUBBER SLIDER. WHERE ADDITIONAL TEST RESULTS ARE AVAILABLE (OIL WET RAMP, WET/ BAREFOOT RAMP) THESE MAY BE TAKEN INTO CONSIDERATION.

ENVIRONMENTAL CONDITIONS

VEGETATION PROTECTION

TREES LOCATED ALONG THE FOOTPATH SHOULD BE, WHERE POSSIBLE TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.

WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIROLES SHOULD BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIROLES MUST BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.

WHERE POSSIBLE, TREE ROOTS SHOULD BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHOULD BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT COUNCIL ARBORIST FOR FURTHER ADVICE.

ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY COUNCIL'S RECOMMENDED TREE SERVICES.

SOIL
TOPSOIL AND SUBSOIL SHOULD BE STOCKPILED SEPARATELY. CARE SHOULD BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

REHABILITATION

PRE-DISTURBANCE SOIL PROFILES AND COMPACTION LEVELS ARE TO BE REINSTATED.

PRE-DISTURBANCE VEGETATION PATTERNS SHOULD BE RESTORED, FOR FURTHER INFORMATION CONTACT COUNCIL ECOLOGICAL ASSESSMENT OFFICER.

NOTE: ALL ENVIRONMENT PROTECTION MEASURES SHOULD BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING, COMMENCING.

REFER TO DRAWING 9451-ES.0.01 FOR EROSION AND SEDIMENTATION CONTROL NOTES

BULK EARTHWORKS NOTES

1. GENERAL

EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PROCEDURES SET DOWN IN AS 3798 GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.

A LAYER OF 100mm THICK ROADBASE MATERIAL MINIMUM CBR 15 (DTMR TYPE 2.5) IS TO BE PLACED AND COMPACTED ON BUILDING AREAS IMMEDIATELY ON COMPLETION OF BULK EARTHWORKS.

FILL BATTERS ARE TO BE OVER FILLED AND COMPACTED TO 1.0m BEYOND FINAL BATTER FACE THEN CUT BACK TO FINAL BATTER.

SOFT SPOTS IN CLAY ARE TO BE DRAINED BY RUBBLE OR AGRICULTURAL DRAINS TO PREVENT 'SUMPS' FORMING.

AT COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL ARRANGE FOR AN INDEPENDENT LICENSED SURVEYOR TO CARRY OUT A 'WORKS AS CONSTRUCTED' SURVEY AND SUBMIT THE DETAILS SHOWN ON A PLAN TO THE SUPERINTENDENT.

2. SOILS REPORT

A SOILS INVESTIGATION HAS BEEN CARRIED OUT BY SOIL SURVEYS ENGINEERING PTY LTD, REFERENCE No. 2-15299, 2021-13-01, BR VER 3, DATED FEB 2022 THIS REPORT MUST BE READ IN ITS ENTIRETY PRIOR TO CONSTRUCTION BEING UNDERTAKEN.

3. SITE PREPARATION

CLEAR THE SITE OF ALL DEBRIS INCLUDING EXISTING BUILDING RUBBLE AND CONCRETE SLABS. TREES EXCEPTING THOSE TO BE RETAINED, GRASS AND TOP SOIL TO A DEPTH OF MIN. 100mm AND ORGANIC MATERIAL SUCH AS TREE ROOTS WHERE REQUIRED. STRIPPED TOP SOIL TO BE REMOVED FROM SITE.

PRIOR TO THE PLACEMENT OF ANY FILLING PROOF ROLL THE SITE USING SIX PASSES OF A 10 TONNE MINIMUM STATIC WEIGHT VIBRATORY PAD TYPE ROLLER. SUBGRADE TO BE COMPACTED TO 100% MAXIMUM DRY DENSITY STANDARD COMPACTION TO E1.1 AS 1289. MOISTURE CONTENT OF THE SUBGRADE IS TO BE WITHIN THE RANGE OF 2% WET TO 0% DRY OF STANDARD OPTIMUM MOISTURE CONTENT.

SOFT SPOTS AND / OR LOOSE AREAS WHICH DO NOT IMPROVE WITH COMPACTION ARE TO BE EXCAVATED TO A MINIMUM DEPTH OF 150mm AND REPLACED. THESE AREAS ARE TO BE INSPECTED BY A GEOTECHNICAL ENGINEER TO ASSESS WHETHER FURTHER EXCAVATION IS REQUIRED OR IF OTHER MEASURES (SUCH AS CONSTRUCTION OF A BRIDGING LAYER) CAN BE ADOPTED. SELECT REPLACEMENT MATERIAL TO BE (MINIMUM CBR15) PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS, COMPACTED TO THE COMPACTION REQUIREMENTS.

4. FILL MATERIAL

IMPORTED FILL MATERIAL SHALL BE APPROVED GRANULAR MATERIAL FREE OF VEGETABLE MATTER AND CONFORMING TO THE FOLLOWING:-

AS SIEVE	% PASSING
75mm	100
4.75mm	30 - 100
0.075mm	3 - 30
LIQUID LIMIT	35% MAX.
PLASTICITY INDEX	15% MAX.
CBR	5% MIN.
LINEAR SHRINKAGE	8% MAX.

TEST CERTIFICATES ON THE TEST FILL MATERIAL SHALL BE SUPPLIED TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO THE USE OF THE FILL MATERIAL.

ALL FILL MATERIAL INCLUDING ROAD PAVEMENT U.N.O. IS TO BE PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS AND COMPACTED TO THE FOLLOWING DENSITIES:

BUILDING AREA	100%	MAXIMUM DRY DENSITY STANDARD COMPACTION
UNDER ROADS A) >500mm BELOW SUBGRADE	98%	MAXIMUM DRY DENSITY STANDARD COMPACTION
B) <500MM BELOW SUBGRADE	100%	MAXIMUM DRY DENSITY STANDARD COMPACTION

REFER TO GEOTECHNICAL REPORT AND SPECIFIC CASE
FILL SHALL BE COMPACTED AND MAINTAINED AT MOISTURE CONTENTS AT PLACEMENT WITHIN THE RANGE OF 2% WET TO 0% DRY OF STANDARD OPTIMUM MOISTURE CONTENT U.N.O. (REFER GEOTECHNICAL REPORT AND SPECIFIC CASE.)

5. GEOTECHNICAL INSPECTIONS AND TEST CERTIFICATES

COMPACTION TESTS, TO BE CARRIED OUT IN ACCORDANCE WITH AS 3798 (REFER TO GEOTECHNICAL REPORT AND SPECIFIC CASE).

'LEVEL 1' GEOTECHNICAL SUPERVISION AS DEFINED IN SECTION 8 OF AS 3798 GUIDELINES OF EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS, SHALL BE PROVIDED UNDER ALL BUILDING AREAS AND ROADS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ORGANISING THE COMPACTION TESTS AND APPOINTING THE GEOTECHNICAL SUPERVISION UTILISING THE ENGINEER WHO COMPLETED THE SITE INVESTIGATION IN ACCORDANCE WITH AS 3798

6. SERVICES

PRIOR TO THE COMMENCEMENT OF WORKS THE CONTRACTOR IS TO IDENTIFY AND BE SATISFIED OF THE CORRECT LOCATIONS OF ALL EXISTING SERVICES WHETHER INDICATED OR NOT ON THE PLANS. ANY DAMAGE TO EXISTING SERVICES IS TO BE RECTIFIED AT THE CONTRACTORS EXPENSE.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SET OUT OF ALL SERVICES & AUXILIARY ITEMS WITHIN THEIR CORRECT ALLOCATION AREA.

ROADWORKS NOTES

FILL AND SUB GRADE SHALL BE COMPACTED AS DETAILED IN EARTHWORKS NOTES.

THE CONTRACTOR IS TO INITIALLY EXCAVATE THE PAVEMENT TO LEVEL THEN ARRANGE 4 DAY SOAKED CBR TESTS ON THE SUBGRADE AND NOTIFY THE SUPERINTENDENT WHO WILL DETERMINE FINAL PAVEMENT THICKNESS AND ARRANGE PAVEMENT APPROVAL FROM THE RELEVANT AUTHORITY.

ALL SUB GRADE AREA SHALL BE PROOF ROLLED AND COMPACTED TO MAXIMUM DRY DENSITY RATIO OF 100% STANDARD COMPACTION (AS 1289) WITH MOISTURE CONTENT WITHIN THE RANGE OF 2% WET TO 0% DRY OF STANDARD OPTIMUM MOISTURE CONTENT. ANY SOFT SPOTS ENCOUNTERED ARE TO BE EXCAVATED AND REPLACED WITH SELECT MATERIAL (MINIMUM CBR 15) AS DEFINED IN EARTHWORKS NOTES.

ALL FILL MATERIAL EXCLUDING ROAD PAVEMENT IS TO BE PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS AND COMPACTED TO DENSITIES OUTLINED IN THE EARTHWORKS NOTES.

ALL ROAD PAVEMENT MATERIAL IS TO BE PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS AND COMPACTED TO 95% MODIFIED MAXIMUM DRY DENSITY.

COMPACTION TEST RESULTS AND TEST LOCATIONS FOR BASE COURSE TESTING SHALL BE SUBMITTED TO AND APPROVED BY THE SUPERINTENDENT PRIOR TO PLACING SURFACE. SHOULD ANY TEST FAIL, THE CONTRACTOR SHALL REWORK THE AREA AS REQUIRED OR AS DIRECTED TO OBTAIN THE SPECIFIED COMPACTION. BASE COURSE MATERIAL SHALL NOT BE PLACED UNTIL THE KERBS HAVE ACHIEVED 20MPa STRENGTH.

ALL PAVEMENT GRAVELS & TRENCHES SHALL BE BACK FILLED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS TO NOT LESS THAN:

LOCATION	DENSITY	FREQUENCY
UNDER ROADS A) >500mm BELOW SUBGRADE	98% SMDD	1 TEST PER 2 LAYERS PER 40m WITH AT LEAST 1 TEST IN 5 BEING ADJACENT TO A MANHOLE OR GULLY
B) <500MM BELOW SUBGRADE	100% SMDD	
C) PAVEMENT	95% MMDD	
ELSEWHERE	98% SMDD	1 TEST PER LAYER PER 200m

SMDD - STANDARD MAXIMUM DRY DENSITY

MMDD - MODIFIED MAXIMUM DRY DENSITY (AS PER AS. 1289)

PAVEMENT MATERIALS SHALL BE COMPACTED AND MAINTAINED AT MOISTURE CONTENTS AT PLACEMENT WITHIN THE RANGE OF 2% WET TO 2% DRY OF STANDARD OPTIMUM MOISTURE CONTENT U.N.O

TRENCH BACKFILL TESTING SHALL BE CARRIED OUT ON EACH ALTERNATE COMPACTED LAYER AT MAXIMUM 50m CENTRES AND NO MORE THAN 3m FROM MANHOLE STRUCTURE.

PAVEMENT MATERIAL CERTIFICATES AND GRADINGS ARE TO BE PROVIDED TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO CONSTRUCTION.

PAVEMENT MATERIAL SHALL EXTEND 150mm BEHIND KERB AND KERB AND CHANNEL.

WHERE NEW PAVEMENT JOINS EXISTING PAVEMENT THE EXISTING PAVEMENT IS TO BE SAW CUT AS INDICATED TO PROVIDE A NEAT STRAIGHT LINE.

ALL FINISHED SURFACE LEVELS ARE SHOWN AT THE LIP OF THE KERB AND CHANNEL OR THE NOMINAL FACE OF THE KERB UNLESS NOTED OTHER WISE.

KERB AND KERB AND CHANNEL TO BE BARRIER TYPE (U.N.O) IN ACCORDANCE WITH IPWEA STANDARD DWG NO. RS-080.

KERB RAMPS ARE TO BE IN ACCORDANCE WITH IPWEA STANDARD DWG NO. RS-090.

WHERE COUNCIL STANDARD DOES NOT NOMINATE CONSTRUCTION METHODS OF CONCRETE KERB SECTIONS TOOLED GROOVE JOINTS ARE TO BE PLACED AT 3m MAXIMUM CENTRES. PLACE ADDITIONAL JOINTS TO KERBS, MEDIANS, INVERTS IN THE SAME LOCATION AS THE JOINTS IN THE CONCRETE PAVEMENTS WHERE APPLICABLE.

SUBSOIL DRAINS SHALL BE MIN 1000 CORRUGATED POLYETHYLENE PIPE TO AS 2439 AND CONSTRUCTED IN ACCORDANCE WITH IPWEA STANDARD DWG NO. RS-140.

SUBSOIL DRAINS ARE TO BE USED IN ALL AREAS, EXCEPT WHERE SUBSOIL DRAINS ARE SHOWN BENEATH TRAFFICABLE AREAS THE PIPES ARE TO BE WATER TIGHT UPVC CLASS PN12 OR RCP CLASS 2.

SUBSOIL DRAIN CLEAN OUTS ARE TO CONSTRUCTED IN ACCORDANCE WITH IPWEA STANDARD DWG NO. RS-142 AND PLACED AT 50m MAXIMUM CENTRES.

ALL SAFETY SIGNS AND BARRICADES SHALL BE ERECTED TO COMPLY WITH TMR STANDARDS AND AS 1742.

WHERE LANDSCAPING IS REMOVED IN NEW PAVEMENT AREAS EXCAVATE 500mm MINIMUM BELOW UNDERSIDE OF NEW PAVEMENT TO REMOVE ALL ROOT AND ORGANIC MATERIAL FROM PAVEMENT AREA. COMPACT AREA TO A MAXIMUM DRY DENSITY OF 100% STANDARD COMPACTION. FOLLOWING COMPACTION PLACE SELECT FILL MATERIAL (MINIMUM CBR 15) IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS TO THE UNDER SIDE OF NEW PAVEMENT MATERIAL TO M.D.D. RATIO OF 100% STANDARD COMPACTION. (AS 1289).

TRENCH BACKFILL TESTING SHALL BE CARRIED OUT ON EACH ALTERNATE COMPACTED LAYER AT A MAXIMUM 50m CENTRES AND NO MORE THAN 3m FROM MANHOLE STRUCTURE.

THE CONTRACTOR IS TO ENSURE THE METHOD OF COMPACTION OF THE BACKFILL IS SUITABLE FOR THE CLASS OF PIPE INDICATED ON THE DRAWINGS.

IF NECESSARY THE CONTRACTOR IS TO ADJUST HIS COMPACTION METHODS TO SUIT THE PIPE CLASS.

WHERE THE TRENCH IS EXCAVATED IN WATERLOGGED GROUND OR WHERE THE FOUNDATION IS CONSIDERED UNSUITABLE IN THE OPINION OF THE SUPERINTENDENT, A LAYER OF CRUSHED ROCK, 40mm TO 20mm SIZE OR OTHER MATERIALS APPROVED BY THE INSPECTING ENGINEER SHALL BE LAID IN A 500mm THICK LAYER BELOW THE CULVERT BASE OR PIPE. THESE AREAS ARE TO BE INSPECTED BY THE GEOTECHNICAL ENGINEER TO ASSESS WHETHER FURTHER EXCAVATION IS REQUIRED OR OTHER MEASURES CAN BE ADOPTED.

THE CONTRACTOR SHALL ARRANGE FOR AN INDEPENDENT LICENSED SURVEYOR TO CARRY OUT 'WORKS AS CONSTRUCTED' SURVEY AND SUBMIT DETAILS SHOWN ON A PLAN TO THE SUPERINTENDENT AT COMPLETION OF CONSTRUCTION. 'WORKS AS CONSTRUCTED' SURVEY IS TO SHOW BUT NOT BE LIMITED TO LEVEL AND LOCATION OF NEW KERB, KERB AND CHANNEL, CONCRETE INVERT AND KERB RAMP AND ANY DETAILS RELATED TO FINAL ROAD WORKS.

STORMWATER DRAINAGE NOTES

ALL STORMWATER DRAINAGE PIPES 2250 OR SMALLER SHALL BE CLASS '2' RCP OR CLASS DWV uPVC.

ALL STORM WATER PIPES 3000 OR GREATER SHALL BE CLASS '2' RCP UNLESS NOTED OTHERWISE.

FRC PIPES SHALL NOT BE USED.

DRAINAGE PIPES (CIVIL) SHALL BE INSTALLED IN ACCORDANCE WITH CoGC STANDARD DRAWING 03-201.

ALL STORMWATER PIPES 6750 OR GREATER SHALL BE FLUSH JOINTED.

ALL STORMWATER PIPES 6000 OR SMALLER SHALL BE RUBBER RING JOINTED.

ALL STORMWATER BEDDING SHALL BE TYPE 'H2' U.N.O.

1m SUBSOIL LEAD IN TO PITS AND MANHOLES IS REQUIRED IN ALL STORMWATER TRENCHES.

FILL BETWEEN MULTI CELL BOX CULVERTS TO BE DRY LEAN MIX.

BUTUTHENE TAPE TO BE USED ON BOX CULVERT JOINTS.

ALL DOWN PIPE CONNECTIONS SHALL BE PVC PIPE, RUBBER RING JOINTED CLASS DWV

DE-WATERING WHERE REQUIRED TO BE AT THE CONTRACTORS COST.

ALL CONNECTIONS FROM DOWN PIPES TO MAIN DRAIN LINES SHALL BE MADE WITH MANUFACTURED FITTINGS UNLESS NOTED OTHERWISE.

INVERT LEVELS SHOWN ON PLAN ARE AT PIPE / STRUCTURE JUNCTION.

PIPE LENGTHS SHOWN ON PLAN / LONG SECTION ARE TO CENTRE OF STRUCTURE.

MINIMUM COVER TO STORMWATER PIPES TO BE AS FOLLOWS:

PIPES IN ROADWAYS - 600mm COVER
PIPES IN LANDSCAPE AREAS - 450mm COVER U.N.O.

ALL STORMWATER MANHOLES SHALL BE MINIMUM Ø1050 IN ACCORDANCE WITH CoGC COUNCIL STANDARD DWG NO. 03-101 AND 03-102.

ALL STORMWATER TO HAVE A HEAVY DUTY TRAFFICABLE LID U.N.O.

ALL STORMWATER GULLY PITS SHALL BE 'LIP IN LINE' AND INSTALLED IN ACCORDANCE WITH CoGC COUNCIL STANDARD DWG NO. 03-001.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING GULLY PITS IN RELATION TO THE NOMINAL FACE OF KERB AND KERB AND CHANNEL AS PER COUNCIL STANDARD SETOUT.

MINIMUM COVER TO ROOF WATER PIPES TO BE 450mm EXCEPT WHERE LESS COVER IS NECESSARY TO DISCHARGE TO STREET KERB AND CHANNEL.

THE CONTRACTOR SHALL VERIFY THE INVERT LEVEL AT THE CONNECTION WITH EXISTING STORMWATER PIPES PRIOR TO LAYING PIPES.

ALL TRENCHES SHALL BE BACK FILLED UNDER THE ROAD IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS NOT LESS THAN 100% MAXIMUM DRY DENSITY STANDARD COMPACTION TEST (AS 1289).

TRENCH BACKFILL TESTING SHALL BE CARRIED OUT ON EACH ALTERNATE COMPACTED LAYER AT A MAXIMUM 50m CENTRES AND NO MORE THAN 3m FROM MANHOLE STRUCTURE.

THE CONTRACTOR IS TO ENSURE THE METHOD OF COMPACTION OF THE BACKFILL IS SUITABLE FOR THE CLASS OF PIPE INDICATED ON THE DRAWINGS.

IF NECESSARY THE CONTRACTOR IS TO ADJUST HIS COMPACTION METHODS TO SUIT THE PIPE CLASS.

WHERE THE TRENCH IS EXCAVATED IN WATERLOGGED GROUND OR WHERE THE FOUNDATION IS CONSIDERED UNSUITABLE IN THE OPINION OF THE SUPERINTENDENT, A LAYER OF CRUSHED ROCK, 40mm TO 20mm SIZE OR OTHER MATERIALS APPROVED BY THE INSPECTING ENGINEER SHALL BE LAID IN A 500mm THICK LAYER BELOW THE CULVERT BASE OR PIPE. THESE AREAS ARE TO BE INSPECTED BY THE GEOTECHNICAL ENGINEER TO ASSESS WHETHER FURTHER EXCAVATION IS REQUIRED OR OTHER MEASURES CAN BE ADOPTED.

THE CONTRACTOR SHALL ARRANGE FOR AN INDEPENDENT LICENSED SURVEYOR TO CARRY OUT A 'WORKS AS CONSTRUCTED' SURVEY TO SUBMIT DETAILS SHOWN ON PLAN TO THE SUPERINTENDENT AT COMPLETION OF CONSTRUCTION. 'WORKS AS CONSTRUCTED' SURVEY IS TO SHOW BUT NOT BE LIMITED TO LEVEL AND LOCATION OF ALL DRAINAGE STRUCTURES, PIPES SIZES AND INVERT LEVELS.

PRIOR TO WORKS GOING ON MAINTENANCE OR A WORKS COMPLETION CERTIFICATE IS PROVIDED, THE CONTRACTOR SHALL ARRANGE FOR A CCTV TO BE CARRIED OUT.

PAVEMENT AND SIGNAGE NOTES

ALL PAVEMENT MARKING AND SIGNAGE TO BE IN ACCORDANCE WITH THE D.O.T. AND AS 1742 MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS TO BE SIZE **A** UNLESS OTHERWISE NOTED.

FOR SIGNAGE AND ASSEMBLY DETAILS REFER TMR MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

FOR ROADWORK DELINEATOR DETAILS REFER TMR MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

EXISTING PAVEMENT MARKING ARE TO BE REMOVED BY GRINDING.

LINE MARKING SHALL BE DULUX ROADMASTER WATER BASED PAVEMENT MARKING OR APPROVED EQUIVALENT.

(SIGN POSTS TO BE PLACED A MINIMUM OF 3m FROM MEDIAN NOSES. (B.C.C. REQUIREMENT ONLY))

MAINTENANCE NOTES - DEFECTS

LIABILITY

SUCH MAINTENANCE SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PROVISIONS OF THE GENERAL CONDITIONS OF CONTRACT WITH RESPECT TO MAKING GOOD DEFECTS AND OTHER FAULTS DUE TO FAULTY REPAIR AND/OR WORKMANSHIP AND SHALL INCLUDE CLEANING UP AND REPAIR DUE TO STORM DAMAGE.

THE DEFECTS LIABILITY PERIOD SHALL BE FOR TWELVE MONTHS FROM THE DATE OF PRACTICAL COMPLETION.

HOLD POINTS & INSPECTIONS:

THE FOLLOWING ITEMS DO NOT SUPERCEDE OR LIMIT THE REQUIREMENTS OF THE LOCAL AND STATE AUTHORITIES HOLD POINTS OR INSPECTIONS AS NOMINATED IN THE APPLICABLE PLANNING SCHEME POLICIES, CONSTRUCTION SPECIFICATIONS, APPROVAL CONDITIONS E.T.C OR DRAWINGS AND OR SPECIFICATION PROVIDED BY THE DESIGN ENGINEER(S).

THE FOLLOWING HOLD POINTS AND INSPECTIONS ARE TO BE CONFIRMED AT THE PRE-START MEETING AND DO NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO SATISFY THE CERTIFYING ENGINEER OF THE WORKS CONSTRUCTED.

FAILURE TO FACILITATE THE ATTENDANCE OF THE AUTHORITY AND/OR CERTIFYING ENGINEER AT A REQUIRED HOLD POINT MAY RESULT IN THE RELEVANT WORKS BEING EXCLUDED FROM CERTIFICATION AT COMPLETION.

1. PAVEMENTS:

1.1. SUBGRADE INSPECTION / PROOF ROLL
PRIOR TO PLACEMENT OF ANY PAVEMENT GRAVELS, VISUAL INSPECTION OF SURFACE FOR CONFORMANCE TO FINISHED SURFACE PROFILE, PROOF ROLL MAY BE REQUIRED.
CBR AND COMPACTION TESTING RESULTS
REQUIRED AT TIME OF INSPECTION.

1.2. PRE-SEAL
PRIOR TO PRIME/SEAL APPLICATION, VISUAL INSPECTION OF SURFACE FOR CONFORMANCE TO FINISHED SURFACE PROFILE, PROOF ROLL MAY BE REQUIRED.
CBR AND COMPACTION TESTING RESULTS ,
CONFORMANCE SURVEY AND ASPHALT/SEAL DESIGN REQUIRED AT TIME OF INSPECTION.

1.3. CONCRETE REINFORCING INSPECTION
CBR MATERIAL IN PLACE WITH FORMWORK, ALL REINFORCING ON CHAIRS AND TIES IN PLACE
2. DRAINAGE:

2.1. PIPE TRENCH AND BEDDING INSPECTION

2.2. PIPE INSTALLED/JOINTED PRIOR TO BACKFILL

2.3. MANHOLE BASE SLAB REINFORCING
PRIOR TO CONCRETE POUR

2.4. MANHOLE (CAST IN-SITU) WALL PRE-POUR
BASE SLAB INSTALLED WITH
INCOMING/OUTGOING PIPES AND SUBSOIL LINES IN PLACE. FORMWORK AND REINFORCING INSTALLED.

2.5. MANHOLE (CAST IN-SITU) ROOF PRE-POUR
BASE SLAB INSTALLED WITH
INCOMING/OUTGOING PIPES AND SUBSOIL LINES IN PLACE. FORMWORK AND REINFORCING INSTALLED.

3. WATER AUTHORITY INSPECTIONS TBC.

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2024/1481
Date: 14/04/2026



COMPLIANCE APPROVAL referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2022/1310/4
Condition no: 18 & 19
Date: 28/04/2023



CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: LACHLAN STEPHENSON
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DATE 03.02.2023

C	03.04.23	FOR APPROVAL		TTM	LS
B	03.02.23	FOR COMPLIANCE ASSESSMENT		TTM	LS
A	23.01.23	ISSUE FOR COORDINATION		TTM	LS
ISSUE	DATE	AMENDMENT		BY	APP
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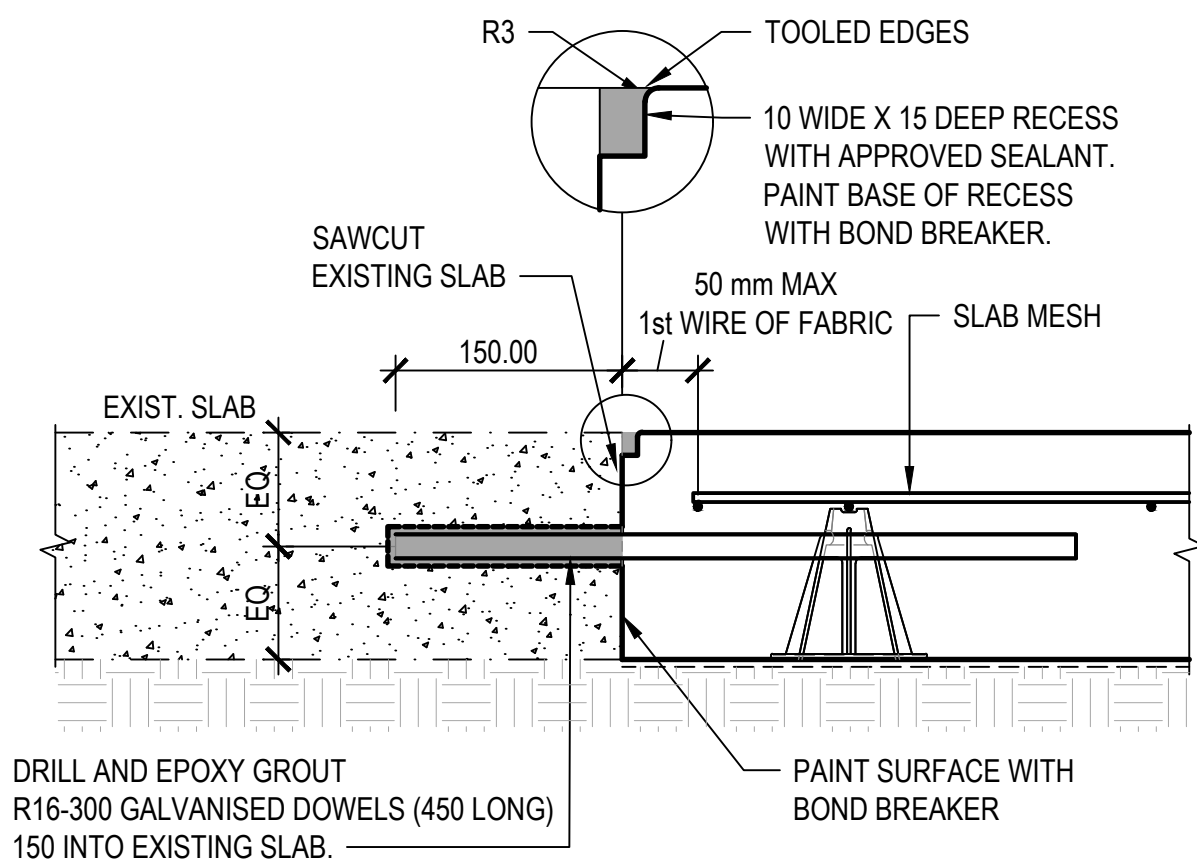


RDX

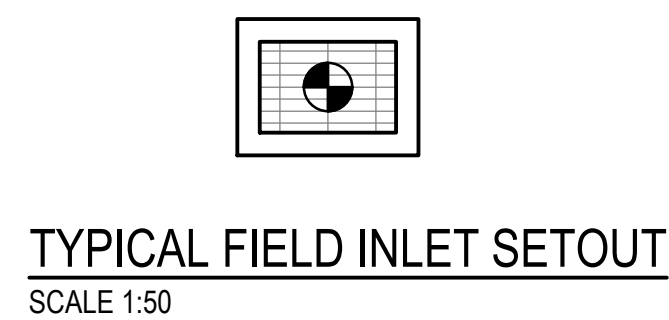
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SOUTHPORT, QLD 4215

CONSTRUCTION NOTES

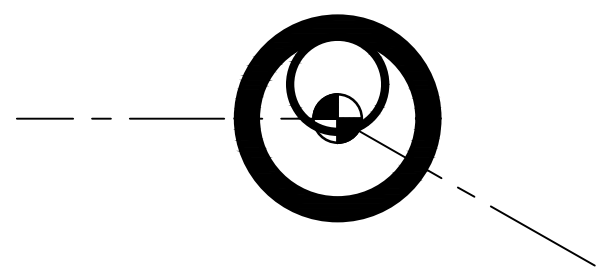
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CHKD: LS	APPRD: LS	DATE: 03.02.2023
mpn JOB	DRAWING No.	REV
9541	CN.0.02	c
FOR APPROVAL		



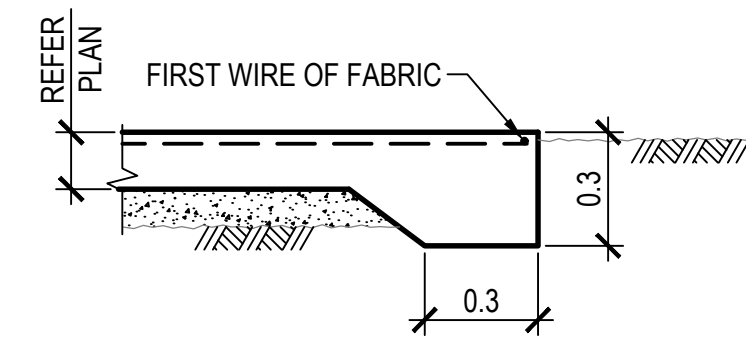
TYPICAL PROPOSED SLAB TO EXISTING SLAB JOINT DETAIL
JOINT SEALANT TO BE INSPECTED ANNUALLY OVER THE LIFE OF THE PAVEMENT AND RE-SEALED AS REQUIRED.



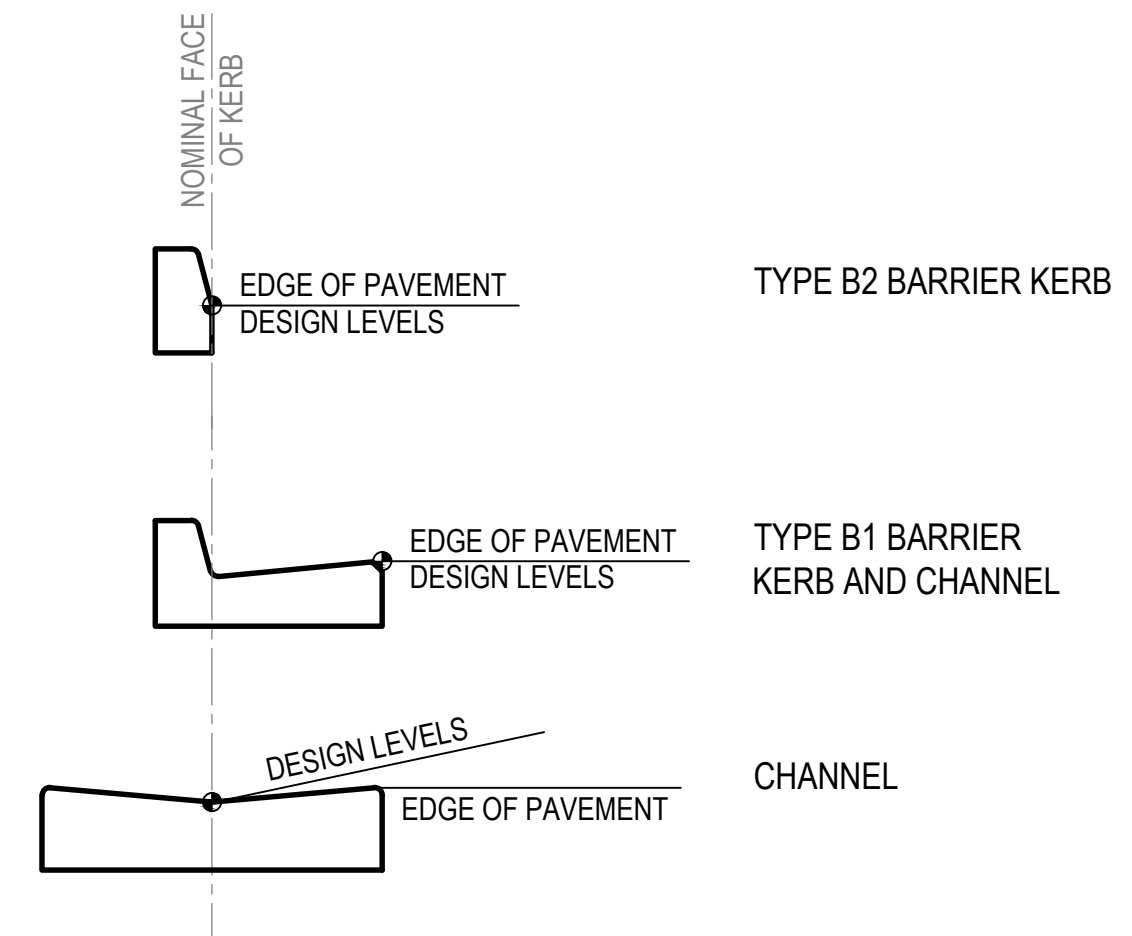
DENOTES SETOUT POINT



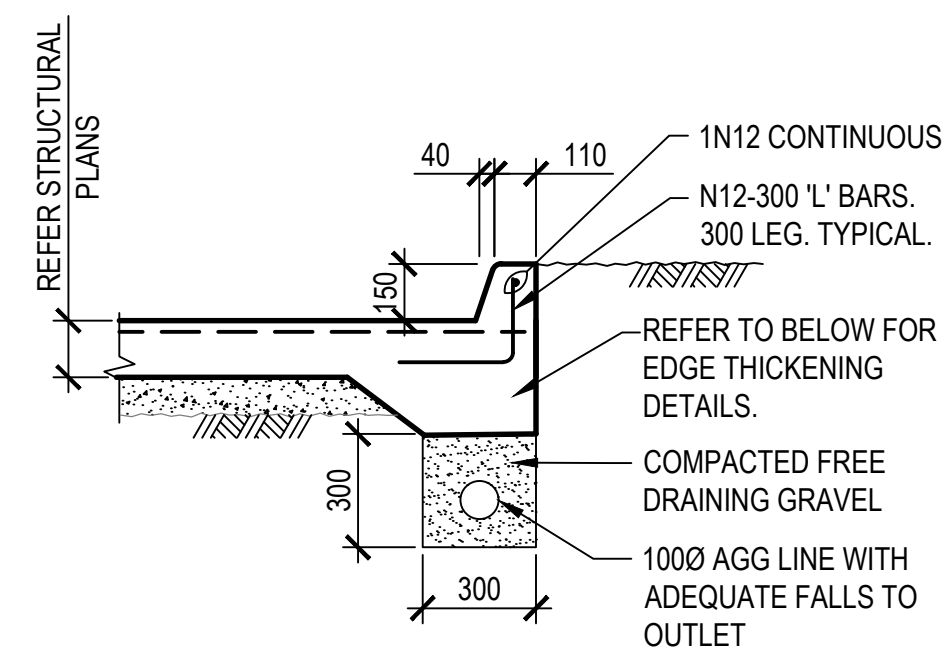
TYPICAL MANHOLE SETOUT
SCALE 1:50
DENOTES SETOUT POINT



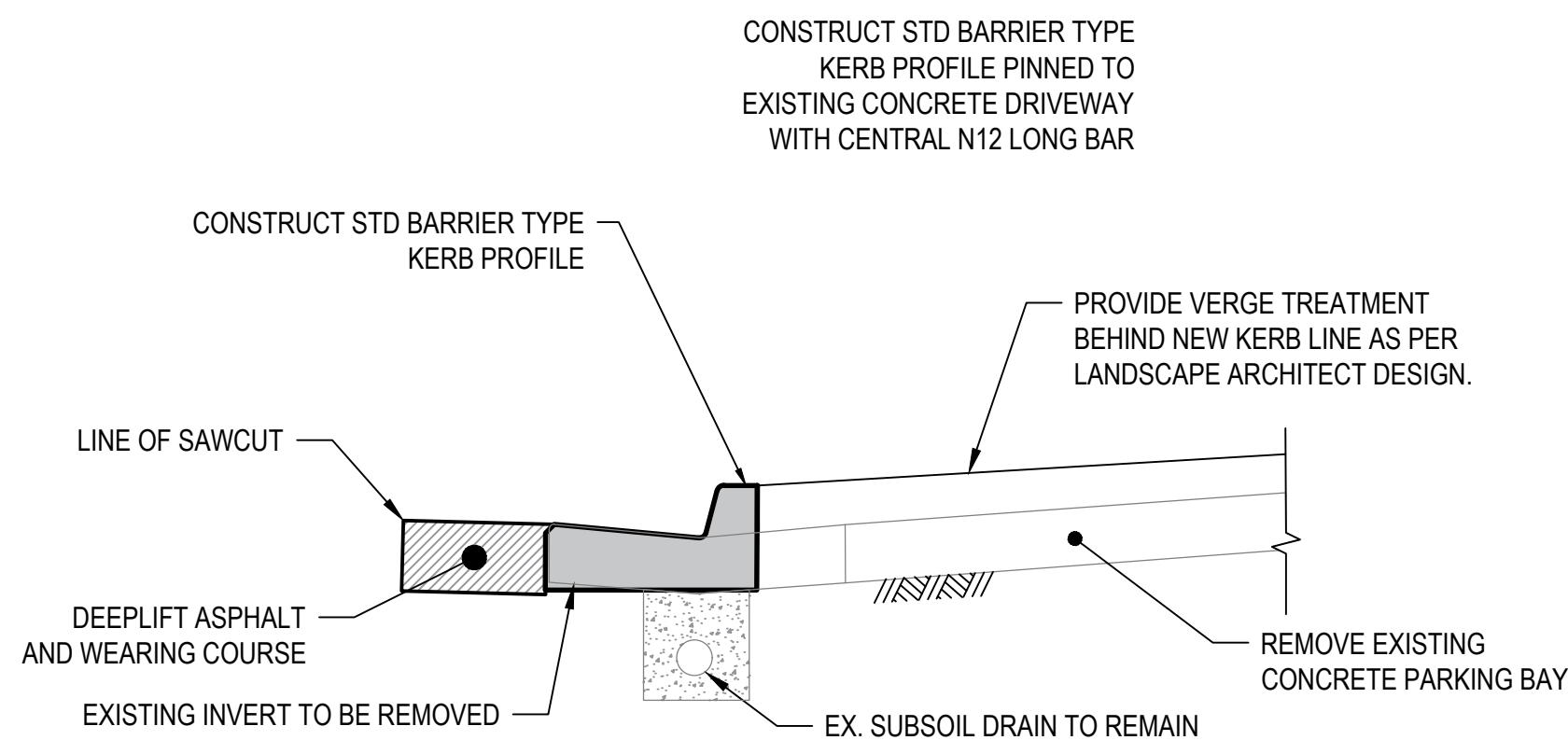
TYPICAL EXTERNAL CONCRETE EDGE THICKENING DETAIL
SCALE 1:50



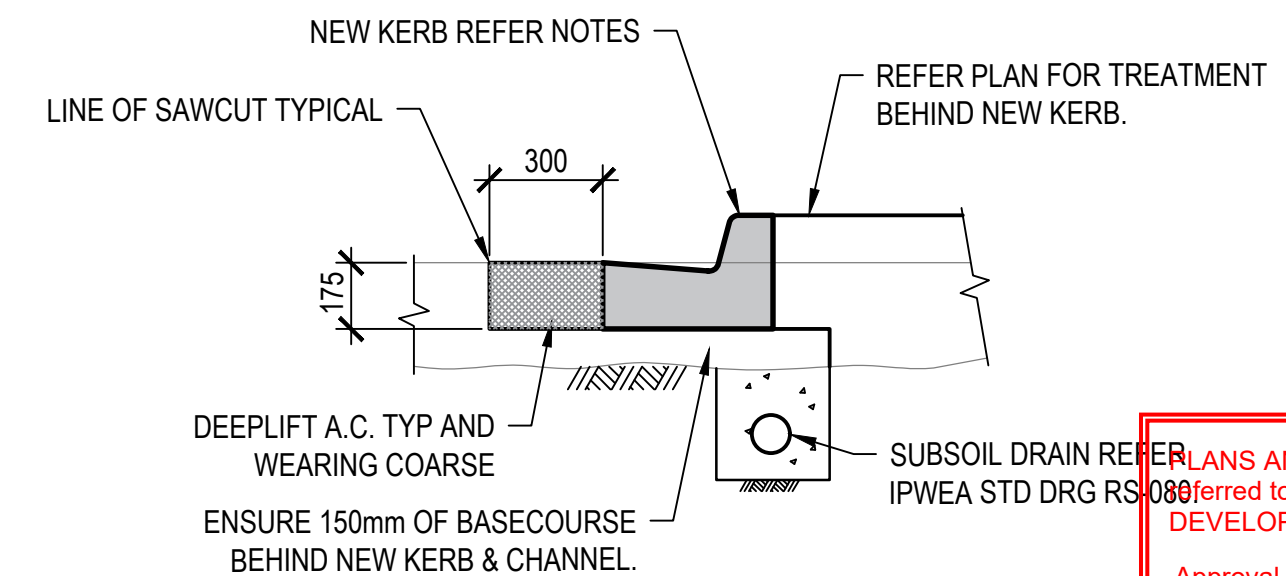
IPWEA KERB AND CHANNEL SET-OUT POINTS AND DESIGN LEVELS
(REFER IPWEA STANDARD DWG NO. RS-080)
SCALE 1:20
DENOTES SETOUT POINT



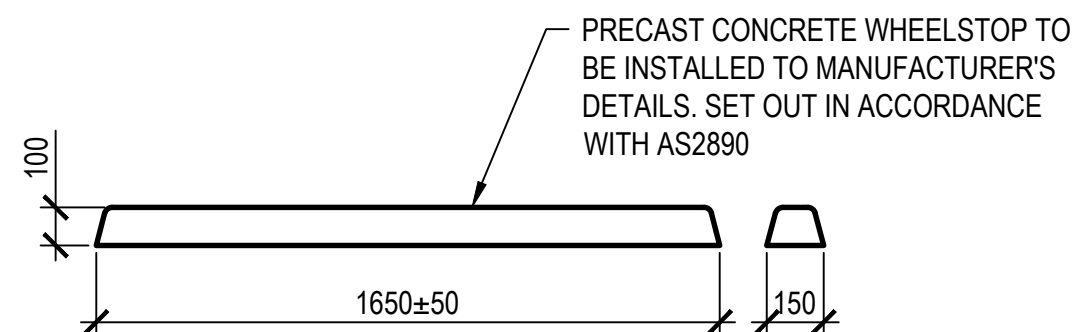
TYPICAL KERB DETAIL - CONCRETE PAVEMENT
SCALE 1:20



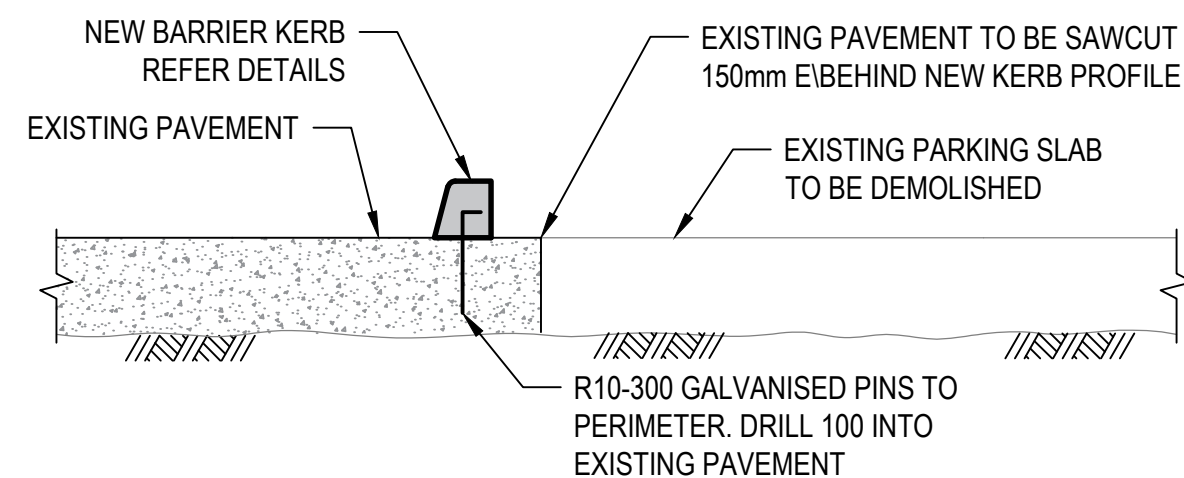
FORM NEW KERB ALONG EXISTING INVERT
SCALE 1:20
NOTE: IF KERB IS HAND POURED, NO SAWCUT INTO EXISTING ASPHALT REQUIRED - DEEPLIFT ASPHALT OMITTED.



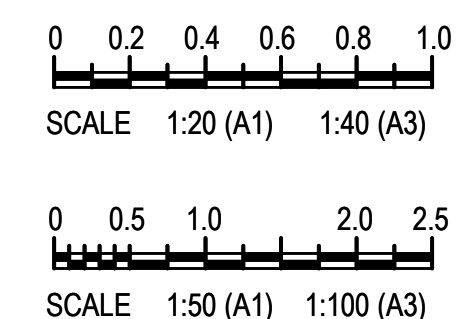
NEW K & C IN EXISTING PAVEMENT
SCALE 1:20



TYPICAL WHEEL STOP DETAIL
SCALE 1:20



NEW KERB PINNED TO EXISTING PAVEMENT TYP. DETAIL
SCALE 1:20
NOTE: MIN SAWN JOINT SPACING 3.0m



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A	21.01.23	ISSUE FOR COORDINATION	TTM	LS

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CIVIL WORKS DETAILS

DESIGN: TTM	DRAWN: TTM	SCALES: AS SHOWN
CHKD: LS	APPRD: LS	DATE: 03.02.2023

mpn JOB	DRAWING No.	REV
9541	CP.2.01	C

FOR APPROVAL

NOT FOR CONSTRUCTION

ALL INFORMATION WITHIN THESE EROSION AND SEDIMENT CONTROL NOTES HAVE BEEN SOURCED FROM THE INTERNATIONAL EROSION CONTROL ASSOCIATION (AUSTRALIA) (IECA) BEST PRACTICE EROSION AND SEDIMENT CONTROL - 2008. THIS DOCUMENT IS ALSO REFERRED TO AS THE IECA GUIDELINES WITHIN THIS DOCUMENT.

EROSION AND SEDIMENT CONTROL - GENERAL NOTES

WORK AREA

THE DEFINED 'WORK AREA' IS LIMITED TO THE AREA SHOWN WITHIN THE DESIGN DRAWINGS, WITH THE WIDTHS AND ALIGNMENTS BEEN DEFINED THROUGH THE INFORMATION PROVIDED BY THE CLIENT. ALL EROSION AND SEDIMENT CONTROLS ARE TO BE CONSTRUCTED, OPERATED AND MAINTAINED WITHIN THE WORK AREA.

KEY MANAGEMENT PRACTICES

PRINCIPLES OF EROSION AND SEDIMENT CONTROL

AVOIDING EROSION & MINIMISING THE POTENTIAL FOR EROSION IN THE FIRST INSTANCE IS CONSIDERED THE MOST EFFECTIVE WAY OF ENSURING ENVIRONMENTAL OBJECTIVES ARE ACHIEVED. CONTROLLING SEDIMENT AS AN END OF LINE TREATMENT IN THE FIRST INSTANCE SHOULD BE AVOIDED. REDUCING OR AVOIDING EROSION CAN BE ACHIEVED THROUGH THE APPLICATION OF MULTIPLE TECHNIQUES, OFTEN WITH ONE TECHNIQUE SUPPLEMENTING ANOTHER. EXAMPLE TECHNIQUES INCLUDE:

- UNDERSTANDING THE REASONS BEHIND SOIL EROSION (I.E. SOIL PROPERTIES, RUNOFF VOLUME, RUNOFF VELOCITY) AND DEVELOPING A TREATMENT STRATEGY ACCORDINGLY.
- SCHEDULING AND STAGING OF CLEARING, EARTHWORKS, ENGINEERING SERVICES, STABILISATION AND REHABILITATION.
- MINIMISING DISTURBANCE AND THE OVERALL CONSTRUCTION FOOTPRINT.
- INCREASE AND OR MAINTAIN TEMPORARY OR PERMANENT GROUND COVER IN HIGH EROSION RISK AREAS.

THE FOLLOWING PRINCIPLES ARE RECOMMENDED WITHIN THE IECA GUIDELINES FOR EROSION AND SEDIMENT CONTROL AS THE PRINCIPLES OF ESC AND SHOULD BE CONSIDERED WHEN DEVELOPING AND IMPLEMENTING AN EROSION AND SEDIMENT CONTROL PLAN:

1. APPROPRIATELY INTEGRATE THE DEVELOPMENT INTO THE SITE.
2. INTEGRATE EROSION AND SEDIMENT CONTROL ISSUES INTO SITE AND CONSTRUCTION PLANNING.
3. DEVELOP EFFECTIVE AND FLEXIBLE EROSION AND SEDIMENT CONTROL PLANS BASED ON ANTICIPATED SOIL, WEATHER AND CONSTRUCTION CONDITIONS.
4. MINIMISE THE EXTENT AND DURATION OF SOIL DISTURBANCE.
5. CONTROL WATER MOVEMENT THROUGHOUT THE SITE.
6. MINIMISE SOIL EROSION.
7. PROMPTLY STABILISE DISTURBED AREAS
8. MAXIMISE SEDIMENT RETENTION ON THE SITE.
9. MAINTAIN ALL ESC MEASURES IN PROPER WORKING ORDER AT ALL TIMES.
10. MONITOR THE SITE AND ADJUST ESC PRACTICES TO MAINTAIN THE REQUIRED PERFORMANCE STANDARD.

RECOMMENDED MANAGEMENT ACTIONS

- WHEREVER POSSIBLE SCHEDULE WORK IN HIGH EROSION RISK AREAS IN LOW EROSION RISK PERIODS OF THE YEAR (REFER TO TABLE 1).
- RESTRICT DISTURBANCE CREATED BY THE CONSTRUCTION WORKS TO THE MINIMUM PRACTICAL AREA ALLOWING FOR SUB-STAGING IF REQUIRED.
- EXPOSURE OF SUBSURFACE OR HIGHLY ERODIBLE LAYERS SHOULD BE AVOIDED WHEREVER POSSIBLE.
- PROVIDE TEMPORARY GROUND COVER DURING CONSTRUCTION BY APPLYING AN APPROPRIATE STABILISATION MECHANISM TO ACHIEVE AT LEAST 60% GROUND COVER. THIS IS CRITICAL IN WORK AREAS WHERE SEDIMENT CONTROLS CANNOT BE INCORPORATED INTO THE WORKS AND THERE IS A HEAVY RELIANCE ON EROSION CONTROL IN THE FIRST INSTANCE.

DRAINAGE CONTROL

UP-SLOPE 'CLEAN' WATER MUST BE DIVERTED AROUND THE EXCAVATION AND MAINTAINED WITHIN THE ROAD RESERVE(S). WHERE VERGE FALLS INTO SITE, STANDARD VERGE PROFILE IS TO BE CONSTRUCTED AND TURFED AS SOON AS EXCAVATION COMMENCES TO ENSURE CLEAN WATER IS EXCLUDED. TEMPORARY SANDBAGS OR CLEAN WATER DIVERSIONS MAY BE CONSTRUCTED ON THE UP-SLOPE SIDE OF THE WORKS AREA WHERE TIMING REQUIRES. WHERE SEPARATION OF CLEAN AND DIRTY WATER IS NOT POSSIBLE, BOTH SOURCES MUST BE COMBINED AND TREATED AS DIRTY WATER. DIRTY WATER DRAINAGE, AS NOMINATED ON THE ESC DRAWINGS IS TO BE CONSTRUCTED TO ENSURE THAT SEDIMENT-LADEN RUNOFF FROM DISTURBED OR ACTIVE WORK AREAS IS APPROPRIATELY DIRECTED INTO THE NOMINATED SEDIMENT CONTROL MECHANISM OR SEDIMENT TRAP.

SOIL MANAGEMENT

DURING THE CONSTRUCTION PHASE, EARTHWORKS SHOULD ONLY BE UNDERTAKEN WHEN THE SOIL MOISTURE CONTENT CAN MAINTAIN THE SOIL PROPERTIES. EARTHWORKS ON DRY SOIL CAN CAUSE EXCESSIVE DUST AND SOIL STRUCTURE DECLINE. SATURATED SOILS ARE MORE LIKELY TO SLUMP AND OR DISPERSE POTENTIALLY CAUSING EXCESSIVE SEDIMENT LOADS AND SOIL STRUCTURE DECLINE.

SOIL TESTING

TESTING OF SOILS PROVIDES ADDITIONAL INFORMATION ON THE CHARACTERISTICS WITHIN THE SOILS OF THE WORK AREA. TESTING RELATED TO EROSION CHARACTERISTICS INCLUDE: SOIL TEXTURE, CATION EXCHANGE CAPACITY (CEC), EXCHANGEABLE SODIUM PERCENTAGE (ESP), EXCHANGEABLE CATIONS, PH AND ELECTRICAL CONDUCTIVITY (EC), JAR TESTING, AND EMERSON DISPERSION. SOIL TESTING IS RECOMMEND TO OBTAIN ADDITIONAL INFORMATION ON THE CHARACTERISTICS OF THE SOILS WITHIN THE WORK AREA TO BE USED IN DETERMINING THE EROSION CONTROL STRATEGY. LIMITED SPECIFIC SOIL INFORMATION AND TESTING REQUIRES CONSERVATIVE ESTIMATES FOR SOIL ERODIBILITY TO BE USED, USING CONSERVATIVE VALUES TO ESTIMATE SOIL ERODIBILITY POTENTIALLY INCREASES THE LEVEL OF EROSION AND SEDIMENT CONTROL REQUIRED.

DESIGN ASSUMPTIONS

SEASONAL EROSION RISK RATING AND REHABILITATION REQUIREMENTS

SECTION 4.4 OF THE IECA GUIDELINES OUTLINES MONTHLY EROSION RISKS BASED ON A VARIETY OF FACTORS. TABLE 4.4.2 OF THE IECA GUIDELINES HAS BEEN RE-CREATED BELOW.

TABLE1: MONTHLY EROSION RISK RATING

EROSION RISK RATING	AVERAGE MONTHLY RAINFALL DEPTH (mm)
VERY LOW	0 - 30
LOW	30 - 45
MODERATE	45 - 100
HIGH	100 - 225
EXTREME	> 225

RECOMMENDED TIMEFRAMES FOR LAND CLEARING, PRIOR TO CONSTRUCTION WORKS COMMENCING ARE PRESENTED IN TABLE 2. THE SPECIFICATION FOR REHABILITATION ARE NOMINATED WITHIN THE REHABILITATION PLAN OR ENGINEERING SPECIFICATIONS. MONITORING AND MAINTENANCE OF GROUND COVER SHOULD BE CONSIDERED AS PART OF THE REHABILITATION PROGRAM. TABLE 1 HAS BEEN REPRODUCED BASED ON RESULTS FROM, THE IECA GUIDELINES TABLES 4.4.2 AND 4.4.7.

TABLE 2: EROSION RISK, TIMING OF WORKS AND REHABILITATION

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
EROSION RISK	H	H	H	H	M	M	M	L	L	M	H	H
AVERAGE RAINFALL (mm)	160	155	138	90	72	65	55	40	45	80	100	128
MAXIMUM LAND CLEARING AHEAD OF WORK (WEEKS)	4	4	4	6	6	6	6	8	8	6	6	4

KEY: H = HIGH, M = MODERATE, L = LOW, VL = VERY LOW

DISTURBED SOIL SURFACES REQUIRE STABILISATION FOLLOWING COMPLETION OF WORKS.
LOW RISK = 70% COVER WITHIN 30 DAYS OF COMPLETION OF WORKS
MODERATE RISK = 70% COVER WITHIN 20 DAYS OF COMPLETION OF WORKS
HIGH RISK = 75% COVER WITHIN 10 DAYS OF COMPLETION OF WORKS

DRAINAGE DESIGN STANDARD

TABLE 4.3.1 OF THE IECA GUIDELINES DETAILS THE ANTICIPATED DESIGN LIFE OF TEMPORARY DRAINAGE FOR THE GIVEN CONSTRUCTION PERIOD. TEMPORARY DRAINAGE STRUCTURES IN THIS DESIGN HAVE AN ANTICIPATED DESIGN LIFE OF 12-24 MONTHS (1 IN 5 YEAR ARI)

SEDIMENT CONTROL STANDARD

THE SEDIMENT CONTROL STANDARD ADOPTED IS PRESENTED IN TABLE 3. AREAS WHICH HAVE A MINIMUM REQUIREMENT OF A TYPE 3 DEVICE (BASED ON THE SIZE OF THE AREA), WHERE POTENTIALLY HIGH EROSION RATE ARE LIKELY TO BE EXPERIENCED WILL REQUIRE ADDITIONAL GROUND COVER TO PREVENT EROSION OR ALTERNATELY A TYPE 2 SEDIMENT CONTROL DEVICE TO BE INSTALLED AND MAINTAINED. TABLE 3 HAS BEEN PREPARED BASED ON THE INFORMATION PROVIDED IN TABLE 4.5.1 OF THE IECA GUIDELINES. FOR MORE DETAIL OF TYPE 1, 2 & 3 DEVICES, REFER IECA GUIDELINES TABLE 4.5.3

TABLE 3: SEDIMENT CONTROL STANDARD

SEDIMENT CONTROL STANDARD FOR SOIL LOSS RATE LIMIT (T/HA/YR)			
AREA LIMIT (m2)	TYPE 1	TYPE 2	TYPE 3
250	N/A	N/A	ALL CASES
1000	N/A	N/A	ALL CASES
2500	N/A	> 75	75
> 2500	> 150	150	75

THE FOLLOWING NOTES RELATE TO POTENTIAL REDUCTIONS IN THE SEDIMENT CONTROL STANDARD. FOR EXAMPLE: SEDIMENT CONTROLS THAT MAY BE CONSIDERED IF THE WORKS PROCEED DURING LOW RISK PERIODS OF THE YEAR (AS NOTED IN TABLE 1), AND OR IF GROUND COVER IS MAINTAINED E.G. MULCH, ROCK MULCH OR SOIL BINDER. WHEN THIS IS THE CASE, GROUND COVER MUST BE REGULARLY ASSESSED.

1. IF WORKS COMMENCE AND ARE COMPLETED IN ACCORDANCE WITH TABLE 1 WITHIN A LOW OR VERY LOW EROSION RISK PERIOD OF THE YEAR, OR AT LEAST 60% GROUND COVER CAN BE MAINTAINED THROUGHOUT WORKS DURING OTHER PARTS OF THE YEAR, THERE MAY BE AN OPPORTUNITY TO DOWNGRADE SOME TYPE 2 DEVICES TO TYPE 3 DEVICES.
2. EXCAVATED SEDIMENT TRAPS CANNOT BE USED IN UNSTABLE SOILS DUE TO THE HIGH PROBABILITY OF TUNNEL EROSION AND SEDIMENT TRAP FAILURE.
3. EMERSON DISPERSION TESTING (A SIMPLE IN-FIELD DISPERSION TEST) SHOULD BE COMPLETED ON THE SUBSOIL (0.30-1.0M) IN A LOCATION WHERE AN EXCAVATED SEDIMENT TRAP IS PROPOSED. IF THE EMERSON CLASS IS 4 OR LESS, THE SOIL IS LIKELY TO BE TOO UNSTABLE AND AN ALTERNATIVE, ABOVE GROUND DEVICE CAN BE USED.

CONSTRUCTION ASSUMPTIONS

A SERIES OF ASSUMPTIONS HAVE BEEN MADE REGARDING THE CONSTRUCTION PHASE WITHIN THE PREPARATION OF THESE NOTES. DURING CONSTRUCTION WORKS, IF THE ASSUMPTIONS ARE IDENTIFIED OR ENVISAGED TO BE INCONSISTENT WITH THE ACTUAL CONSTRUCTION PROCESSES OR SITE CONDITIONS, THE ESC CONTROLS MAY REQUIRE UPDATING TO REFLECT THE ADDITIONAL OR ACTUAL CONDITIONS EXPERIENCED ON SITE. FURTHERMORE THE CORRESPONDING EROSION AND SEDIMENT CONTROL PLAN MAY REQUIRE IMMEDIATE REVISION

- EARTHWORKS E.G. CUT OR FILL BATTER SLOPES WILL BE CONSTRUCTED TO ALLOW ALL ESC DEVICES TO REMAIN WITHIN THE DEFINED WORK AREA.

- SOIL WITHIN THE WORK AREA WILL BE ASSESSED FOR DISPERSION POTENTIAL AND TREATED WITH GYPSUM IF REQUIRED.

METHODOLOGY AND INSTALLATION SEQUENCE FOR CONSTRUCTION WORKS

TIMING OF WORKS MUST BE ASSESSED WITH RESPECT TO TABLE 1

KEY EROSION AND SEDIMENT CONTROL ITEMS TO BE COMPLETED PRIOR TO COMMENCING BROAD SCALE LAND DISTURBANCE. REFER TO THE APPROVED ESC DRAWING FOR THE INDICATIVE LOCATION OF DRAINAGE, EROSION AND SEDIMENT CONTROLS. REFER TO TYPICAL DETAILS AND TECHNICAL NOTES FOR NOMINATED DRAINAGE, EROSION AND SEDIMENT CONTROLS

KEY CONTROL ITEMS ARE AS FOLLOWS:

1. ESTABLISH STABILISED SITE ACCESS
2. INSTALL PERIMETER SEDIMENT CONTROLS
3. INSTALL CLEAN WATER DIVERSIONS WHERE APPLICABLE
4. ESTABLISH BASEMENT EXCAVATION PUMP OUT PROCEDURES INCLUDING SEDIMENT AND SILT REMOVAL METHODOLOGIES
6. COMPLETE ALL OTHER INITIAL ESC WORKS

CLEARING, GRUBBING AND EARTHWORKS ASSOCIATED WITH DRAINAGE PATHS E.G. GULLY CROSSINGS AREA ARE TO BE DELAYED AS LONG AS IS PRACTICABLE AND BE MINIMISED WHERE POSSIBLE.

VEGETATION WHICH HAS BEEN CLEARED IS TO BE MULCHED AND USED AS PART THE EROSION AND SEDIMENT CONTROL PLANS WHERE POSSIBLE

INSTALL ALL EROSION CONTROL MEASURES (E.G. SOIL BINDER, MULCH, GRAVEL, OR ROCK MULCH) WITHIN THE DISTURBED AREAS AS SOON AS PRACTICABLE, OR IF RAIN IS FORECAST WITHIN 24 HOURS.

CONTROL TRAFFIC ON ALL AREAS WHERE SUBSOILS ARE EXPOSED TO LIMIT UNNECESSARY EROSION.

REHABILITATION IS RECOMMENDED TO COMMENCE AS SOON AS PRACTICAL.

7. ADDITIONAL MEASURES:

1. IF DIRECTED BY THE ENGINEER, TOPSOIL STOCKPILES ARE TO BE SOWN WITH A COVER CROP AS SOON AS PRACTICAL AFTER STOCKPILING.
2. NO DISTURBANCE TO VEGETATION IS TO TAKE PLACE BEYOND THE BOUNDARIES OF THE CURRENT STAGE OF DEVELOPMENT.
3. SEDIMENT IS TO BE PREVENTED FROM ENTERING STORMWATER GULLY PITS BY PLACING A PORTABLE SEDIMENT BARRIER.
4. DURING CONSTRUCTION, TEMPORARY DIVERSION DRAINS, SEDIMENT FENCES AND, OR SEDIMENT TRAPS ARE TO BE CONSTRUCTED AT REGULAR INTERVALS DOWN SLOPE PRIOR TO ANY BREAKS IN CONSTRUCTION (SUCH AS A WEEKEND) OR IF RAIN IS IMMINENT.
5. INSTALL SEDIMENT FENCES TO CONTROL SHEET FLOW OR SEDIMENT TRAPS TO CONTROL CONCENTRATED FLOW.
6. SERVICE TRENCHES ARE TO BE RE-VEGETATED WITH GRASS SODS AND TOPSOIL SAVED DURING EXCAVATION OF THE TRENCHES (AS APPROPRIATE)
7. CUT AND FILL BATTERS ARE TO BE STABILISED WITH TOP SOIL AND SEEDED AS SOON AS PRACTICAL.

SEDIMENT SUMP & PUMP OUT

1. UNLESS INLINE FILTRATION SYSTEM UTILISED ON SITE FOR PUMP DISCHARGE:
 - 1.1. WATER WITHIN THE BASEMENT EXCAVATION MUST BE TESTED PRIOR TO DISCHARGE TO COUNCIL DRAINAGE SYSTEMS. SHOULD THE SUSPENDED SOLIDS OF THE WATER EXCEED 50MG/LITRE THEN THE WATER IS TO BE TREATED WITH GYPSUM AT THE RATE OF 32kg / 100m3 TO SETTLE OUT THE SUSPENDED SOLIDS. WATER IS TO BE RETESTED PRIOR TO RELEASE.
 - 1.2. THE pH OF WATER IS TO BE TESTED. IF THE pH IS OUTSIDE OF THE RANGE 6.5 pH TO 8.5 pH UNITS IT SHALL BE TREATED TO BRING IT WITHIN THIS RANGE.
 - 1.3. WHEN THE SUSPENDED SOLIDS LEVEL IS ACCEPTABLE THE WATER IS TO BE RELEASED OR PUMPED OUT ENSURING CAREFUL ATTENTION NOT TO DISTURB THE SETTLED SEDIMENT.
2. SEDIMENTS WITHIN EXCAVATION ARE TO BE REMOVED FROM SITE BY THE CONTRACTOR. NO STOCKPILING OF SEDIMENT HEAVY MATERIALS IS TO OCCUR ADJACENT TO ROAD RESERVE.

ENVIRONMENTAL LOG

1. 1.THE CONTRACTOR SHALL MAINTAIN A DEDICATED ON SITE ENVIRONMENTAL LOG WHICH NOTES ALL WATER QUALITY SAMPLING AND MONITORING DATES, RESULTS AND MAINTENANCE RECORDS.
2. IT SHALL INCLUDE ALL RELEVANT INFORMATION PERTAINING TO INSPECTION AND MAINTENANCE OF DEVICES, DATES OF RAINFALL WATER QUALITY TESTING, BASIN DEWATERING
3. (DEWATERING OF BASINS AND DAMS MUST INCLUDE A SPACE FOR SIGN OFF BY THE CONTRACTOR THAT WATER QUALITY RESULTS ARE WITHIN APPROVED LIMITS.)
4. THE ENVIRONMENTAL LOG SHALL BE KEPT ON SITE AND IS TO BE MADE AVAILABLE FOR INSPECTION BY COUNCIL OFFICERS AT ALL TIMES.

ONGOING OPERATION, MONITORING AND MAINTENANCE

1. MONITORING OF EROSION AND SEDIMENT CONTROLS SHOULD BE CONDUCTED AT INTERVALS NO GREATER THAN SEVEN (7) DAYS APART.
2. ADDITIONAL MONITORING AND MAINTENANCE SHOULD BE CONDUCTED WITHIN 12 HOURS OF A FORECAST RAINFALL EVENT THAT WOULD PRODUCE RUNOFF.
3. ONGOING MONITORING AND MAINTENANCE SHOULD BE CONDUCTED DAILY DURING PROLONGED RAINFALL EVENTS.
4. INSPECTIONS WITHIN 18 HOURS AFTER RAINFALL EVENTS PRODUCING RUNOFF ARE REQUIRE TO ASSESS THE ONGOING INTEGRITY AND FUNCTIONALITY OF EROSION AND SEDIMENT CONTROLS AND ADJOINING DRAINAGE. GENERAL INSPECTION CONSIDERATIONS INCLUDE:

- INLET AND DISCHARGE AREAS FOR DAMAGE OR EXCESSIVE SCOUR
- CHANNEL BANKS DIRECTING RUNOFF TO THE SEDIMENT TRAP FOR DAMAGE FROM OVERTOPPING FLOWS
- EXCESSIVE SEDIMENTATION E.G. MORE THAN 25% OF ORIGINAL SEDIMENT TRAP VOLUME AND
- INTEGRITY OF TEMPORARY GROUND COVER
- DESILTING OF SEDIMENTATION BASINS AND OTHER SEDIMENT CONTROL DEVICES.
- CORRECTIVE OR RESTORATIVE MAINTENANCE IS TO BE SCHEDULED AND COMPLETED AS NECESSARY I.E. PRIOR TO RAINFALL EVENTS.
- REMOVAL AND DISPOSAL OF WATER, SEDIMENT AND OR CORRECTIVE WORK IS TO BE UNDERTAKEN IN A MANNER THAT WILL NOT CREATE AN EROSION OR POLLUTION HAZARD.

THE CONTRACTOR IS TO COMPLETE A SUITABLE ESC CHECKLIST (REFER EXAMPLE PROVIDED IN IECA 2008 GUIDELINES) AS PART OF ALL MONITORING AND MAINTENANCE INSPECTIONS. COPIES OF COMPLETED CHECKLISTS ARE TO BE STORED ON SITE AND MADE AVAILABLE TO REGULATORY AUTHORITY UPON REQUEST.

NOTES:
EROSION & SEDIMENT CONTROL MEASURES SHOWN ON THESE PLANS ARE CONCEPT ONLY. CONTRACTOR IS TO PREPARE SITE SPECIFIC EROSION & SEDIMENT CONTROL PLANS BASED ON PROPOSED WORK METHODS AND IN ACCORDANCE WITH IECA BEST PRACTICE

PLANS AND CERTIFICATION TO COMPLY WITH DA CONDITIONS

NOT FOR CONSTRUCTION

CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: LACHLAN STEPHENSON
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TELEPHONE: (07) 3335 4595



DATE 03.02.2023

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2024/1481
Date: 14/04/2026



COMPLIANCE APPROVAL referred to in the PDA DEVELOPMENT APPROVAL

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Date: 28/04/2023



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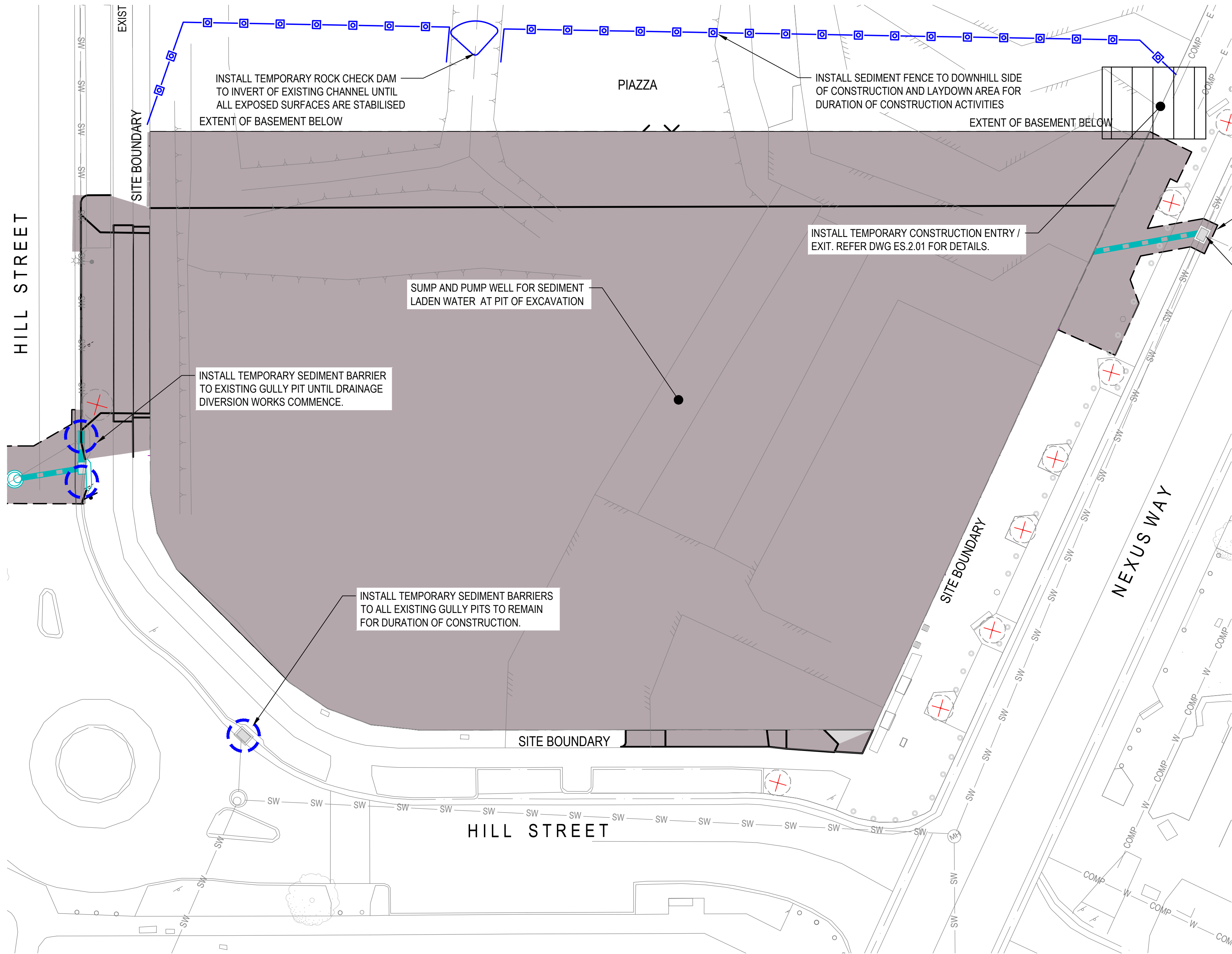
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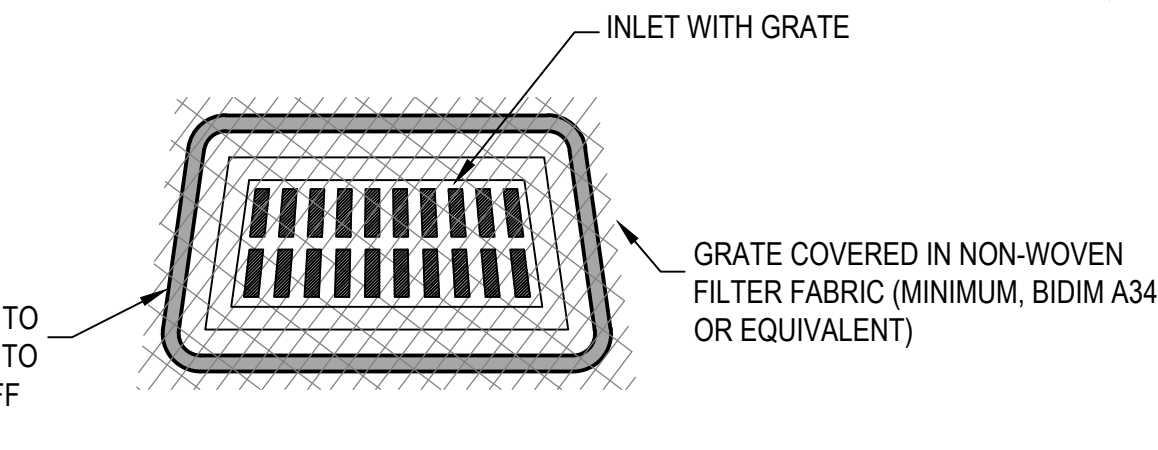
EROSION AND SEDIMENT CONTROL NOTES

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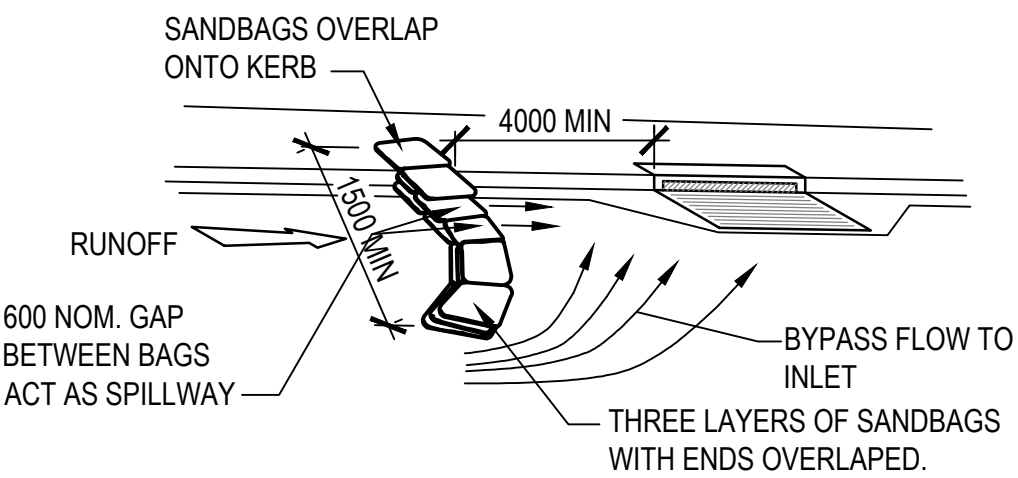
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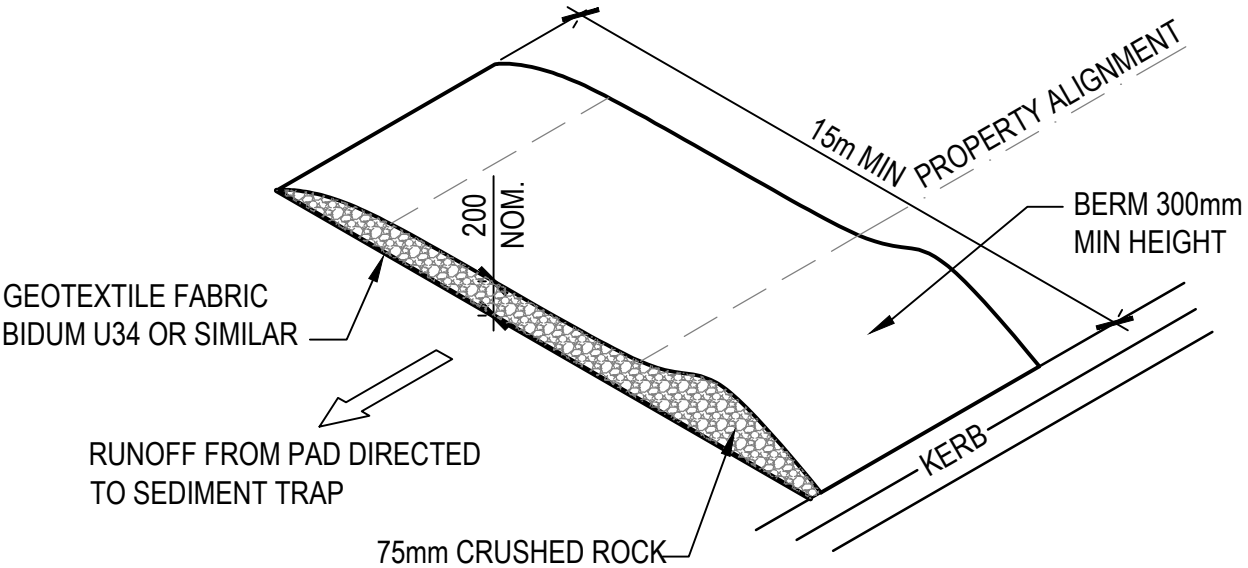
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---	PROPERTY BOUNDARY	---
---	CONTOUR	---
---	BUILDING	---
---	CONCRETE	---
---	EDGE OF BITUMEN	---
---	KERB	---
---	KERB AND CHANNEL	---
---	FLUSH KERB	---
---	STORM WATER MAIN	---
---	RETAINING WALL	---
---	TOP OF BATTER	---
---	FACE OF BATTER	---
---	TOE OF BATTER	---
---	CONSTRUCTION ENTRY / EXIT	---
---	SEDIMENT FENCE	---
---	CHECK DAM	---
---	INLET SEDIMENT TRAP	---



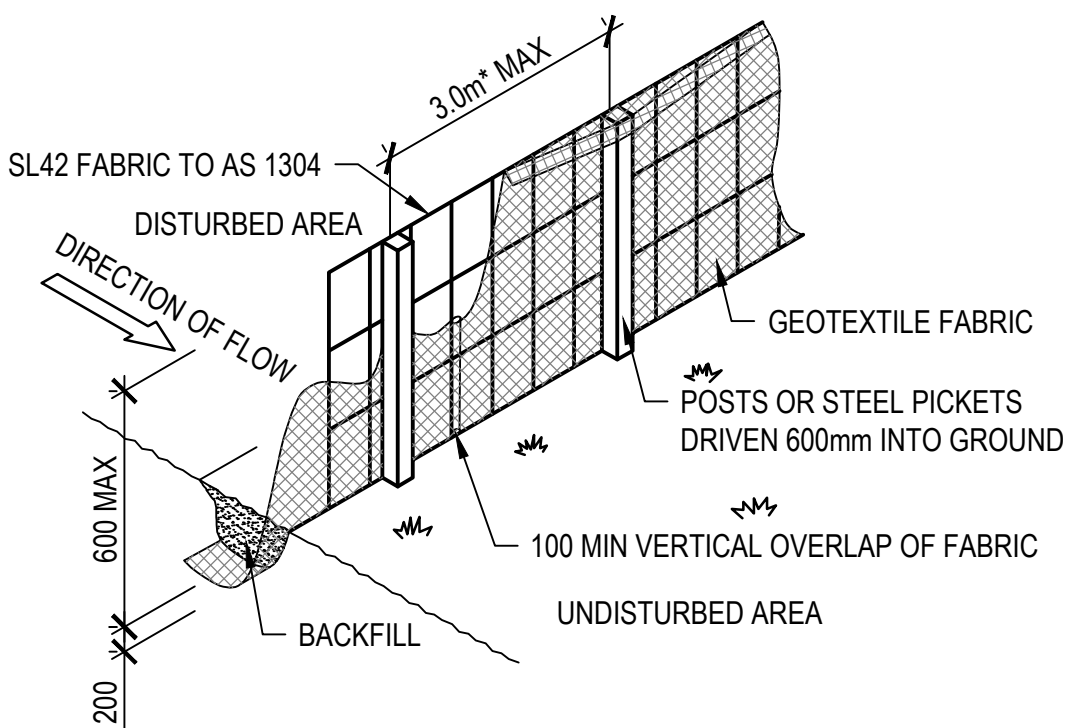
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N.T.S.



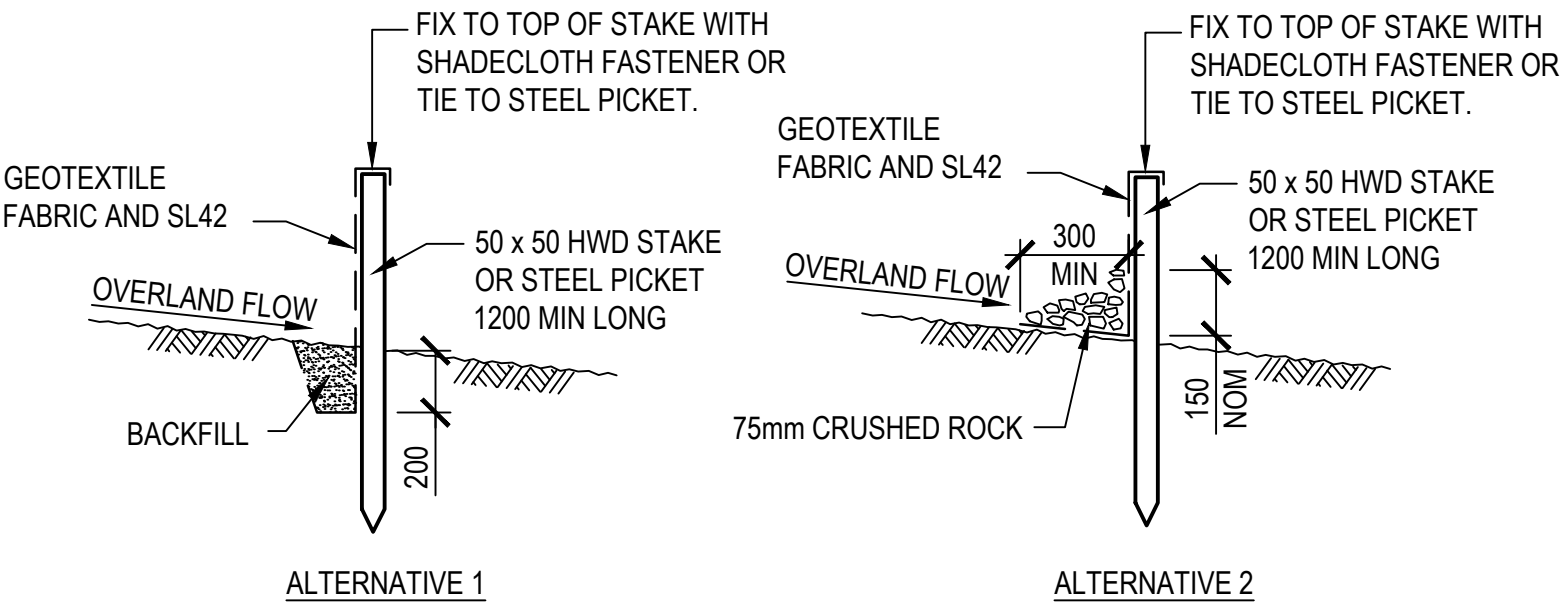
TYPICAL ON GRADE KERB INLET SEDIMENT TRAP.
N.T.S.



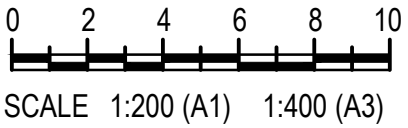
TYPICAL TEMPORARY CONSTRUCTION ENTRY / EXIT DETAIL
N.T.S.



TYPICAL HIGH FLOW SEDIMENT FENCE ELEVATION
* 2000 MAX WITH OUT SL42 MESH
N.T.S.



TYPICAL SEDIMENT FENCE SECTIONS
N.T.S.



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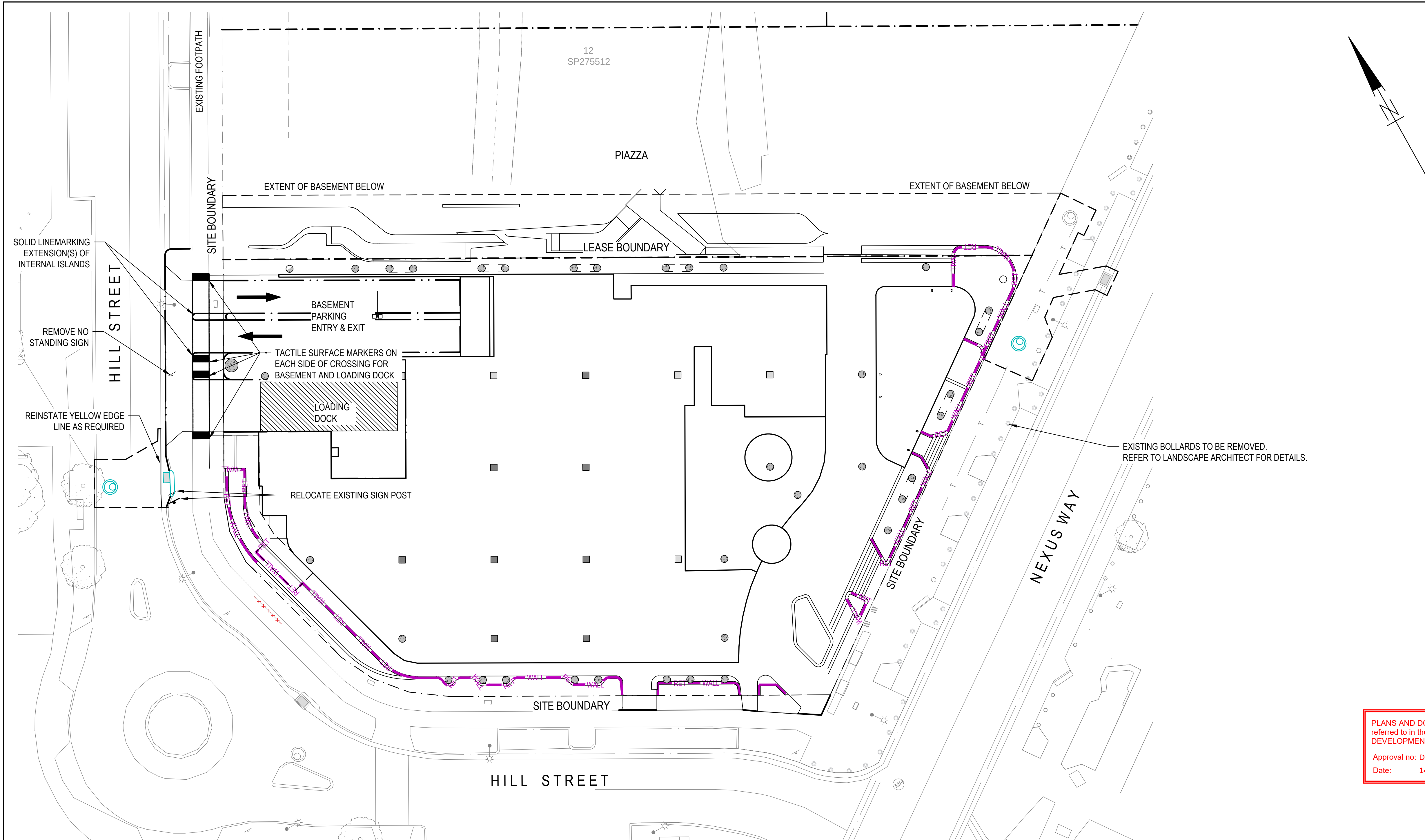
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EROSION AND SEDIMENT CONTROL PLAN			
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LEGEND		
EXISTING		PROPOSED
	PROPERTY BOUNDARY	
	BUILDING	
	CONCRETE	
	EDGE OF BITUMEN	
	KERB	
	KERB AND CHANNEL	
	FLUSH KERB	
	KERB RAMP	
	SIGN	
	SIGN TO BE REMOVED	
	BOLLARD	

LANE LINE LEGEND AND DIMENSIONS

LL	BROKEN LANE LINE	3.0m STRIPE 9.0m GAP	100
ULL	UNBROKEN LANE LINE	CONTINUOUS STRIPE	100
DBL	DOUBLE BARRIER LINES	2 CONTINUOUS STRIPES	180
CL	CONTINUITY LINE	1.0m STRIPE 3.0m GAP	150
SB	STOP BAR	CONTINUOUS STRIPE	300
TL	TURN LINE	0.6m STRIPE 0.6m GAP	100
GWL	GIVE WAY LINE	0.6m STRIPE 0.6m GAP	300
HL	HOLDING LINE	0.6m STRIPE 0.6m GAP	200
PCW	CROSSWALK	1.0m STRIPE 0.3m GAP	150
NSL	NO STOPPING LINE	CONTINUOUS YELLOW STRIPE	100
EL	EDGE LINE	CONTINUOUS STRIPE	100
LINEMARKING TO BE REMOVED		X X X X X X X X X X	

ALL LANE LINE WIDTHS IN MILLIMETRES

PAVEMENT AND SIGNAGE NOTES

- ALL PAVEMENT MARKING TO BE IN ACCORDANCE WITH AS 1742 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- EXISTING PAVEMENT MARKINGS ARE TO BE REMOVED BY SCABBLING.
- LINE MARKING SHALL BE DULUX ROADMASTER WATER BASED PAVEMENT MARKING OR APPROVED EQUIVALENT.
- ALL PARKING BAYS TO BE PAINTED WITH A 80mm WIDE UNBROKEN LINE.
- FOR SIGNAGE ASSEMBLY DETAILS REFER TMR MUTCD .
- FOR ROADWORKS DELINEATOR DETAILS REFER TMR MUTCD.
- SIGN POSTS TO BE PLACED A MINIMUM OF 3m FROM MEDIAN NOSES. (BCC REQUIREMENT ONLY).

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ADDITIONAL PAVEMENT MARKING & SIGNAGE

REFER ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL PAVEMENT MARKING AND SIGNAGE REQUIREMENTS NOT SHOWN ON THESE DRAWINGS

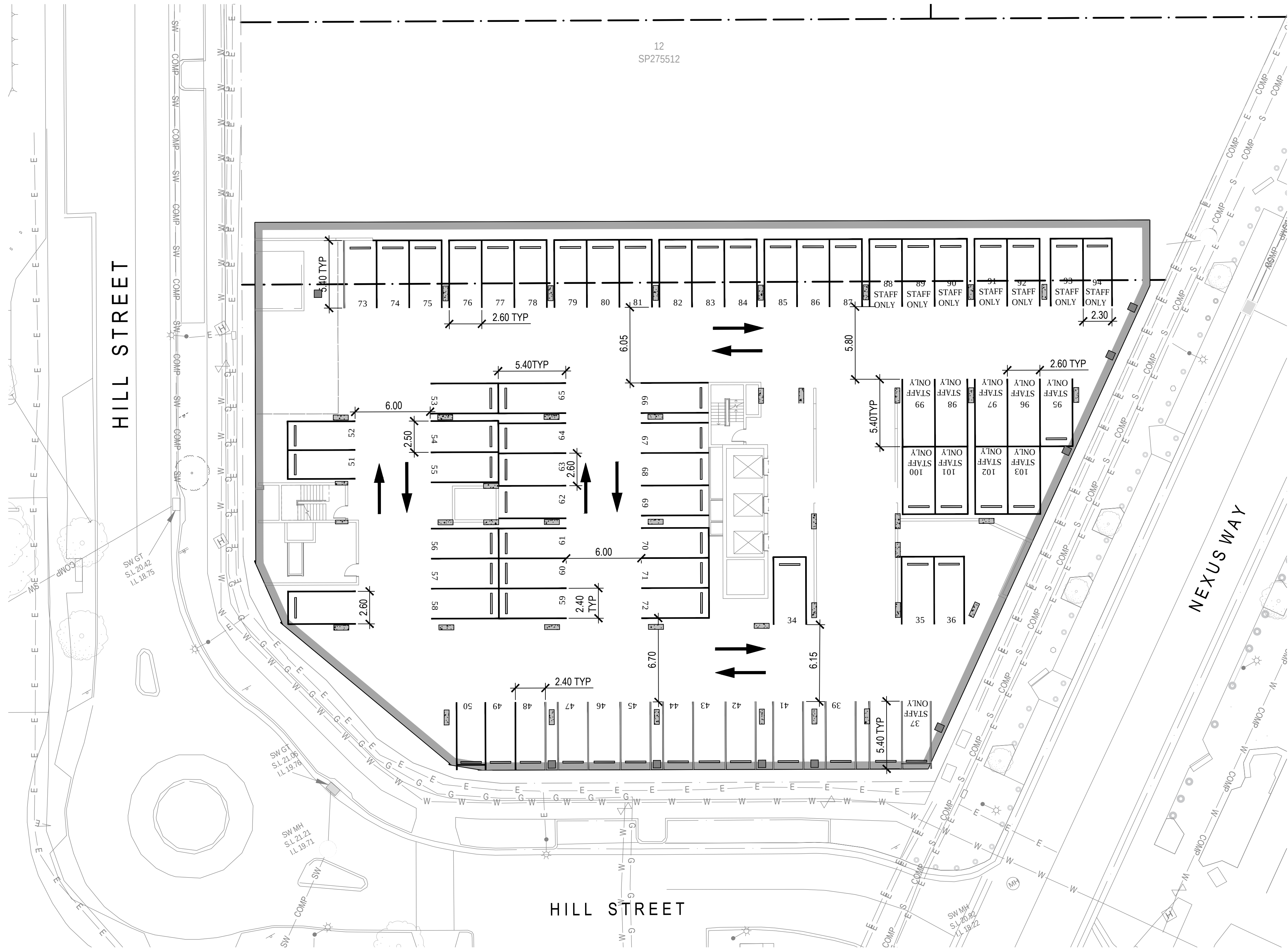
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LINE MARKING AND SIGNAGE PLAN - GROUND				
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LANE LINE LEGEND AND DIMENSIONS

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ULL	UNBROKEN LANE LINE	CONTINUOUS STRIPE	100
DBL	DOUBLE BARRIER LINES	2 CONTINUOUS STRIPES	80
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PCW	CROSSWALK	1.0m STRIPE 0.3m GAP	150
NSL	NO STOPPING LINE	CONTINUOUS YELLOW STRIPE	100
EL	EDGE LINE	CONTINUOUS STRIPE	100

LINEMARKING TO BE REMOVED

PAVEMENT AND SIGNAGE NOTES

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EXISTING	LEGEND	PROPOSED
	PROPERTY BOUNDARY	
	BUILDING	
	CONCRETE	
	EDGE OF BITUMEN	
	KERB	
	KERB AND CHANNEL	
	FLUSH KERB	
	KERB RAMP	
	SIGN	
	SIGN TO BE REMOVED	

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LINE MARKING AND SIGNAGE PLAN - BASEMENT 2

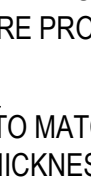
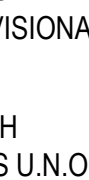
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EXISTING	LEGEND	PROPOSED
	PROPERTY BOUNDARY	
	BUILDING CONCRETE	
	EDGE OF BITUMEN KERB	
	KERB AND CHANNEL	
	FLUSH KERB	
	KERB RAMP	
	RETAINING WALL	
	LANDSCAPE WALL	
	SWALE DRAIN	
	LINE OF SAW CUT	

<u>PAVEMENT LEGEND</u> ASSUME SUBGRADE 3% SUBJECT TO FINAL PAVEMENT DESIGN (DEPTHS OF GRAVEL PAVEMENT ARE PROVISIONAL)	
	DEEP LIFT ASPHALT MIN. 100mm THICK, TO MATCH PAVEMENT BASE THICKNESS U.N.O
	ASPHALT PAVEMENT (REINSTATEMENT) MIN 40mm ASPHALT TO MATCH EXISTING MIN 125mm DEEP TYPE 2.1 (CBR 80) PAVEMENT TO MATCH EXISTING. REFER GCC STD DRG 02-602
	CONCRETE DRIVEWAY 175mm THICK N32 CONCRETE WITH SL72 MESH, 50mm TOP COVER 100mm CBR 15 SUB-BASE (DTMR 2.5) REFER IPWEA STD DRG RS-051
	CONCRETE PAVEMENT - PARKING 175mm THICK N32 CONCRETE WITH SL82 MESH, 30mm TOP COVER 100mm CBR 15 SUB-BASE (DTMR 2.5)
	CONCRETE - WATER METER 100mm THICK S32 CONCRETE WITH SL72 MESH, CENTRALLY PLACED REFER WR.2.01 FOR DETAILS
	CONCRETE FOOTPATH MIN 100mm THICK, SL72 MESH CENTRAL, OVER 50mm BEDDING SAND REFER IPWEA STD DRG RS-065.
	LANDSCAPE REFER LANDSCAPE ARCHITECTS DRAWINGS FOR DETAILS
	REFER STRUCTURAL DRAWINGS

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2022/1310/4
Condition no: 18 & 19
Date: 28/04/2023


Queensland
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PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2024/1481

Date: 14/04/2026


Queensland
Government

B	03.02.23	FOR COMPLIANCE ASSESSMENT	TTM	LS
A	23.01.23	ISSUE FOR COORDINATION	BTY	APP
ISSUE	DATE	AMENDMENT	BY	APP

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 39, Sheppwood Road, Tapscott, Qld. 4066 E: solutions@mpn.net.au

CLIENT:  NORTHWEST
HEALTHCARE PROPERTIES

RDX	
-----	--

**LOT 6A NEXUS WAY
SOUTHPORT, QLD 4215**

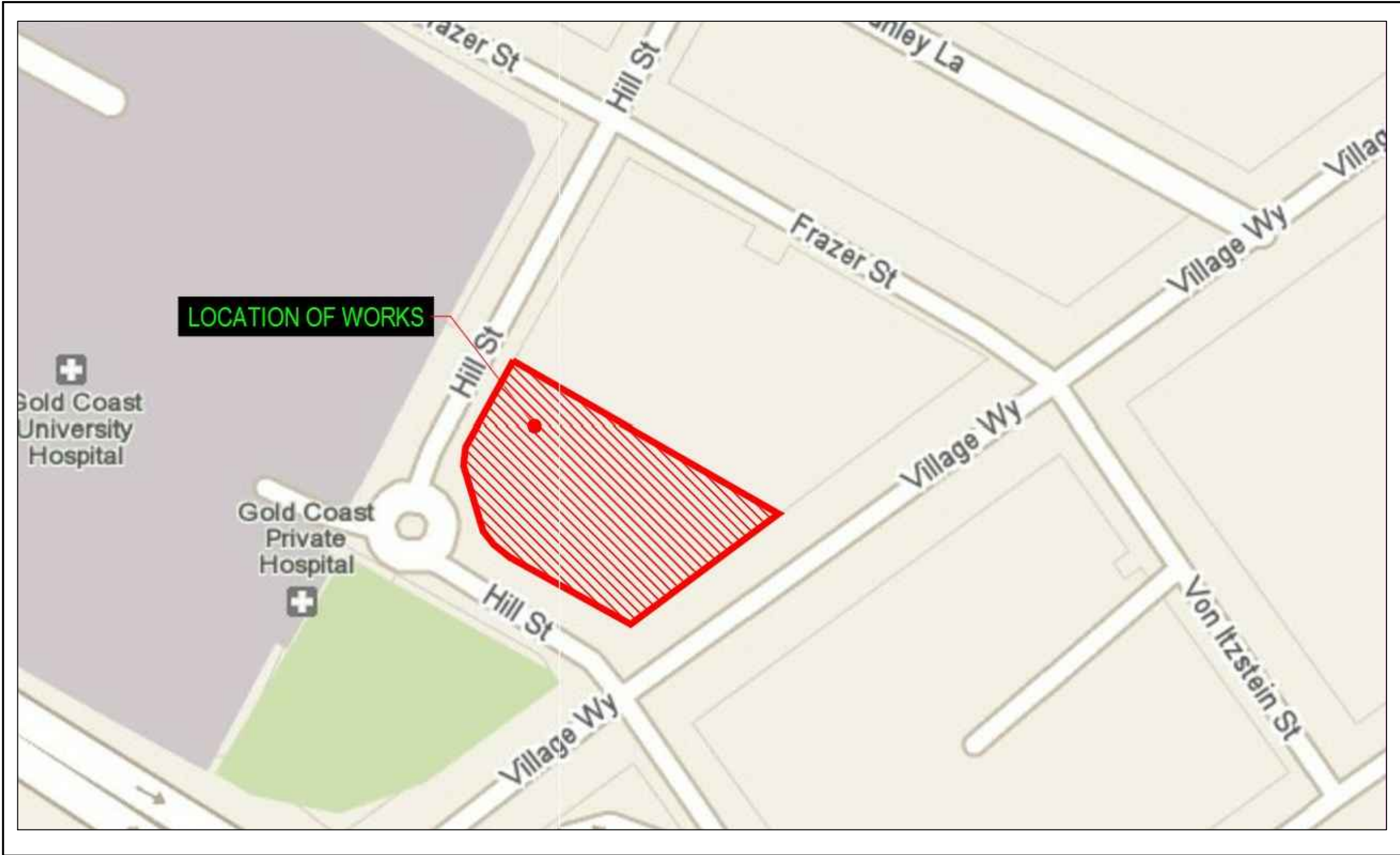
PAVEMENT TYPES PLAN			
DESIGN: TTM	DRAWN: TTM	SCALES: AS SHOWN	
CHKD: LS	APPRD: LS	DATE: 03.02.2023	
mpn JOB		DRAWING No.	REV
9541		PV.1.01	B

FOR APPROVAL

NOT FOR CONSTRUCTION

CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: LACHLAN STEPHENSON
(RPEQ 16903)
TELEPHONE: (07) 3335 4595

 DATE 03.02.2023



LOCALITY PLAN

NTS

NAME OF ESTATE		GCHKP - RESEARCH DEVELOPMENT CENTRE OF EXCELLENCE
DEVELOPER		ICON PTY LTD
APPLICATION No.		
SP DELEGATE APPROVAL DATE		
DRAWING/PLAN No.		
No. OF ALLOTMENTS		1
AREA		
LENGTH OF SEWERS	12m	

GOLD COAST WATER & CONSTRUCTOR LIVE WORKS										
(NOTE: EXISTING SEWERAGE FLOWS TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION)										
NO.	DESCRIPTION	DIA SEWER	MH NO.	MH/MS TYPE	COVER TYPE	LOT NO.	F.S.L	E.S.L	I.L.	DEPTH TO INVERT
1	CONSTRUCTOR TO CONSTRUCT NEW 225 DIAMETER SEWER PARALLEL WITH EXISTING, LIVE 150 SEWER AND CONSTRUCT NEW MANHOLE OVER EXISTING 150 LINE WITHOUT BREAKING EXISTING PIPE OR CONNECTING TO EXISTING MH EX2/1.	225Ø	1/1	1050 MH	B	6A	19.13	-	17.06	2.07
2A	NEWLY CONSTRUCTED LINE TO CLEANSED AND PRESSURE TESTED PRIOR TO AGENCY INSPECTION CONSTRUCTOR TO ESTABLISH TANKERING FROM EXISTING UPSTREAM MAINTENANCE HOLE EX4/1 (I.D. 000000009000337382) TO EXISTING DOWNSTREAM MAINTENANCE HOLE EX1/1 (I.D. 000000009000337391). CONSTRUCTOR/AGENCY TO TEMPORARILY PLUG/SEAL EXISTING UPSTREAM MANHOLE EX4/1 (I.D. 000000009000337382) FOR DURATION OF LIVE SEWER WORKS.	225Ø	EX1/1	1050 MH	EX			16.17	12.53	3.64
2C		150Ø	EX3/1	1050 MH	EX		-	21.38	18.27	3.11
3A	CONSTRUCTOR TO DISCONNECT EXISTING 150 PVC CONNECTION TO EXISTING MANHOLE EX2/1 (I.D. 000000009000337387) AND RECONNECT NEW 225 PIPE INCLUDING BENCHING AS REQUIRED.	225Ø	EX2/1	1050 MH	EX		-	18.57	16.82	1.75
3B	CONSTRUCTOR TO DISCONNECT EXISTING PROPERTY CONNECTION TO MANHOLE EX2/1 INCLUDING BENCHING AS REQUIRED.	225Ø	EX2/1	1050 MH	EX		-	18.57	16.82	1.75
3C	CONSTRUCTOR TO BREAK OUT EXISTING 150 DIAMETER PIPE FROM NEW MANHOLE 3/1, SEAL EXISTING 150 OUTLET AND RE-BENCH MANHOLE TO DRAIN VIA NEW 225 DIAMETER PIPE.	225Ø	1/1	1050 MH	B	6A	19.13	-	17.06	2.07
4	EXISTING, REDUNDANT 150 PVC LINE TO BE REMOVED PRIOR TO BACKFILLING NEW 225 SEWER	150Ø	EX2/1	1050 MH	EX	6A	-	18.57	16.82	1.75

SEWER DISUSED				JOB NO.		NUMBER OF MH, MS, HB & VB					
LOCATION	DWG NO.	DIA.	TYPE	LENGTH	YEAR LAID	MH IN-SITU	MH PRE-CAST	MS	HB	VB	OTHER
15 NEXUS WAY, SOUTHPORT	9541-SR.1.01	150	PVC	14.2m	2021	1					

SEWER NOTES

ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE (SEQ CODE) SPECIFICATIONS AND STANDARDS.

UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.

THE CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THIS DRAWING SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION AND AN ACCREDITED UNITYWATER CONSTRUCTION CERTIFIER. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO UNITYWATER'S SEWERAGE SYSTEM.

ALL WORK ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE CARRIED OUT BY UNITYWATER AT THE DEVELOPER'S COST.

UPVC SEWERS SHALL BE SN8 TO A.S. 1260, EXCEPT FOR DN100 WHICH SHALL BE SN10 TO A.S. 1260 AND COMPLY TO THE SEQ CODE ACCEPTED CIVIL INFRASTRUCTURE APPROVED PRODUCTS LIST.

DICL SEWERS SHALL BE CLASS PN35 TO A.S. 2280 AND POLYETHYLENE SLEEVED.

EACH ALLOTMENT SHALL BE SERVED BY A DN150 PVC PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN150 PVC PROPERTY CONNECTION SHALL BE PROVIDED.

O.B'S SHALL BE LOCATED 1.2m FROM THE DOWNSTREAM ALIGNMENT. IF THIS IS NOT POSSIBLE, O.B'S SHALL NOT BE GREATER THAN 3.5m FROM THE DOWNSTREAM ALIGNMENT.

PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 500mm AND A MAXIMUM OF 750mm.

WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300mm (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 COUNCIL UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.

WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER, BULKHEADS AND/OR TRENCHSTOPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 9.10 OF WSAA GRAVITY SEWERAGE CODE OF AUSTRALIA (SOUTH EAST QUEENSLAND SERVICE PROVIDERS EDITION).

THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.

SEWERS SHALL BE DISUSED/ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN SECTION 5.2.9 OF WSAA GRAVITY SEWERAGE CODE OF AUSTRALIA (SOUTH EAST QUEENSLAND SERVICE PROVIDERS EDITION).

BENCH MARK AND LEVELS TO AHD.

ENVIRONMENTAL CONDITIONS

VEGETATION PROTECTION

TREES LOCATED ALONG THE FOOTPATH SHOULD BE, WHERE POSSIBLE TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.

WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHOULD BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES MUST BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.

WHERE POSSIBLE, TREE ROOTS SHOULD BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHOULD BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT COUNCIL ARBORIST FOR FURTHER ADVICE.

ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY COUNCIL'S METROPOLITAN TREE SERVICES.

SOIL

TOPSOIL AND SUBSOIL SHOULD BE STOCKPILED SEPARATELY. CARE SHOULD BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

REHABILITATION

PRE-DISTURBANCE SOIL PROFILES AND COMPACTION LEVELS ARE TO BE REINSTATED.

PRE-DISTURBANCE VEGETATION PATTERNS SHOULD BE RESTORED. FOR FURTHER INFORMATION CONTACT COUNCIL ECOLOGICAL ASSESSMENT OFFICER.

NOTE: ALL ENVIRONMENT PROTECTION MEASURES SHOULD BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING, COMMENCING.

ALL WATER AND SEWER CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORKPLACE HEALTH AND SAFETY ACT 2011. CONTACT THE DEPARTMENT OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION. PHONE 1300 369 915

NOTE:

IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT GOLD COAST WATER PRIOR TO COMMENCEMENT OF CONSTRUCTION TO AGREE TO A WORKS TIMEFRAME AND ARRANGE FOR LIVE WORKS TO BE CARRIED OUT. (EXCAVATION, SAFE-SHORING AND ASSOCIATED WORKS BY CONTRACTOR.)

EXCAVATION WORKS CARRIED OUT BY CONTRACTORS AT DEPTH OF 1.5m OR GREATER MUST PROVIDE A 'SAFE WORK PLAN' AS PER WORKPLACE HEALTH AND SAFETY LEGISLATION TO UNITYWATER PRIOR TO UNITYWATER COMMENCING ANY WORK.

IT IS THE DEVELOPER'S RESPONSIBILITY TO ENSURE ALL LIVE SEWER WORKS ARE COMPLETE BEFORE ALLOWING PRIVATE DRAINAGE TO BE CONNECTED.

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2022/1310/4
Condition no: 18 & 19
Date: 28/04/2023

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2024/1481
Date: 14/04/2026

B	03.02.23	FOR COMPLIANCE ASSESSMENT	TTM	LS	
A	23.01.23	ISSUE FOR COORDINATION	TTM	LS	
ISSUE	DATE	AMENDMENT	BY	APP	
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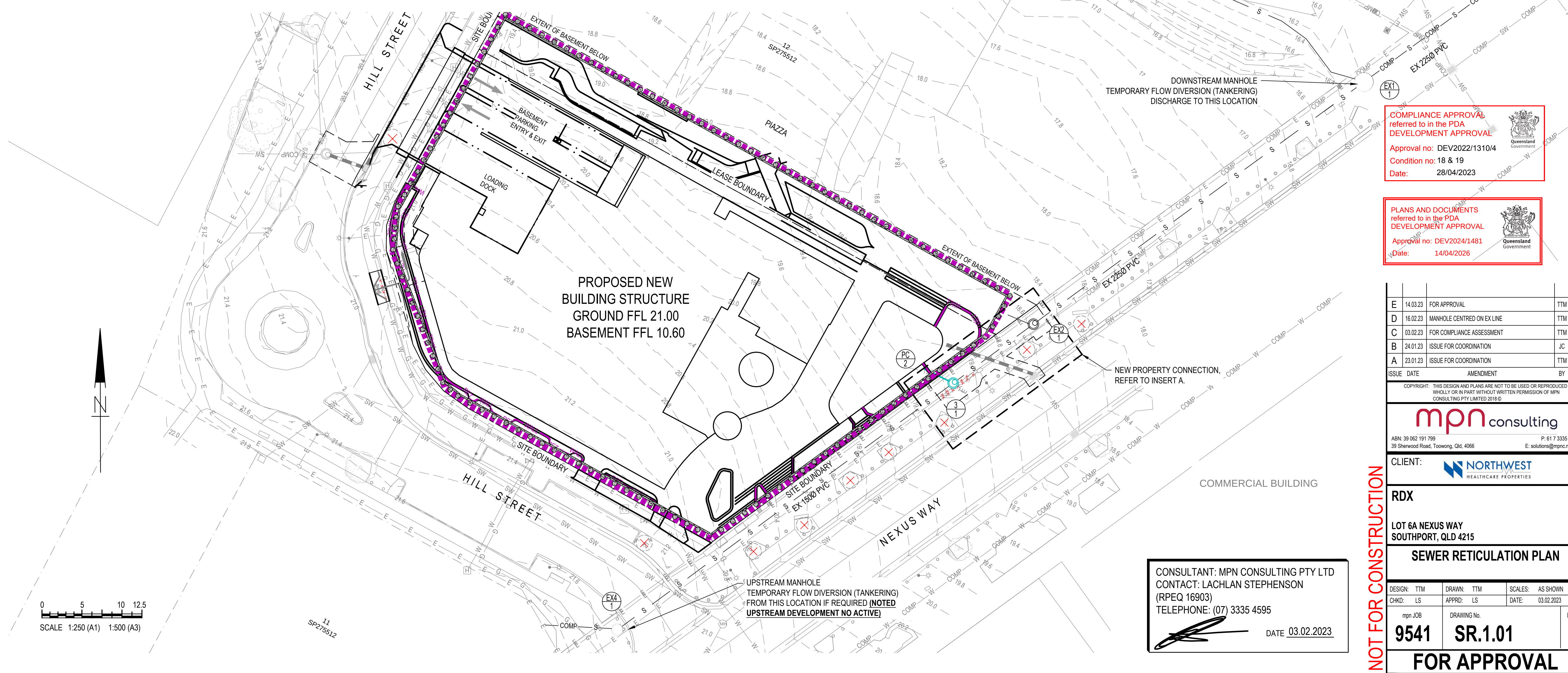
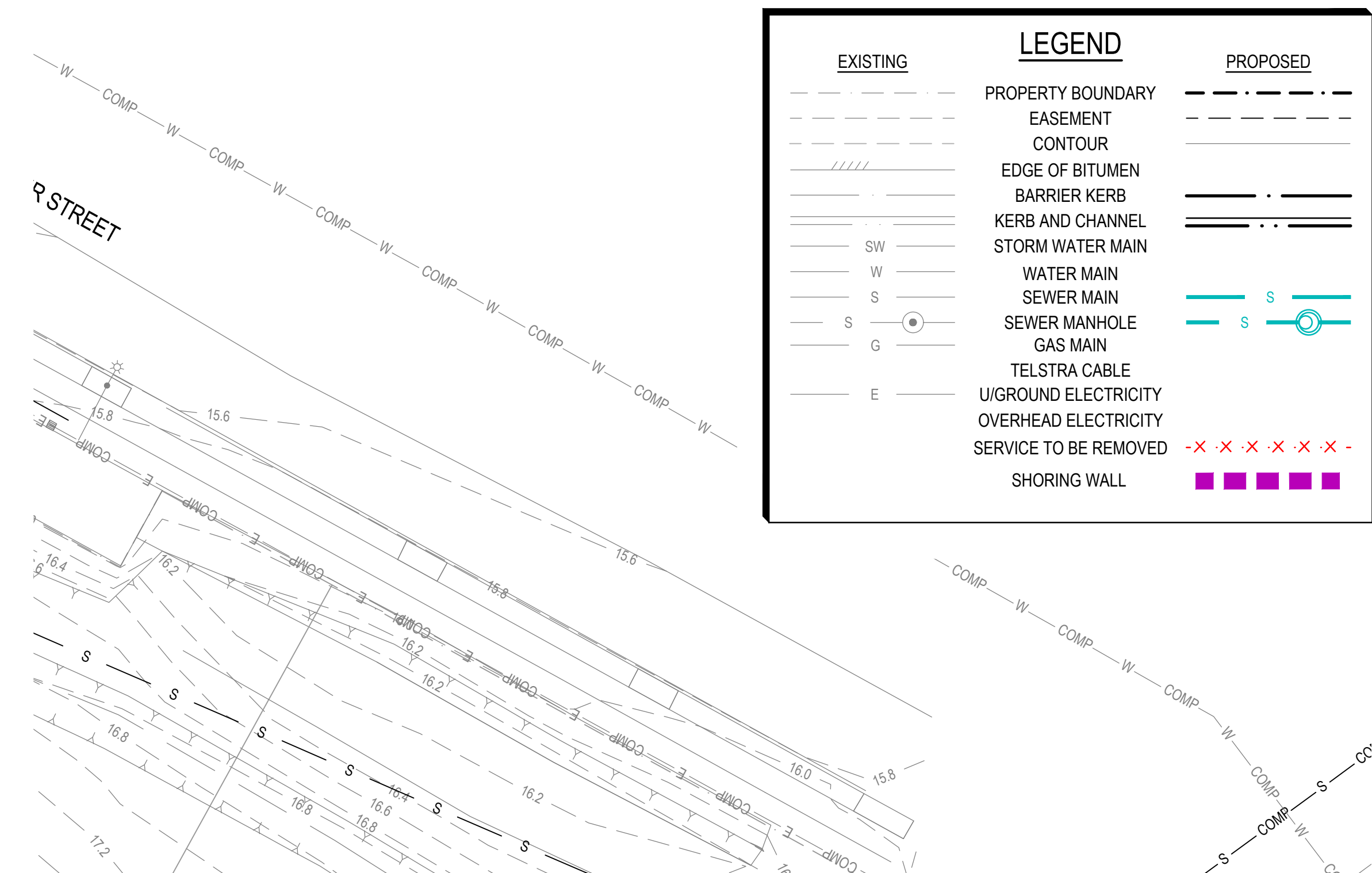
CLIENT: NORTHWEST HEALTHCARE PROPERTIES

RDX
LOT 6A NEXUS WAY
SOUTHPORT, QLD 4215

SEWER RETICULATION
COVER SHEET
DESIGN: TTM
CHKD: LS
DRAWN: TTM
APPRD: LS
SCALES: AS SHOWN
DATE: 03.02.2023
mpn JOB
DRAWING No.
REV
9541
SR.0.01
B
FOR APPROVAL

CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: LACHLAN STEPHENSON
(RPEQ 16903)
TELEPHONE: (07) 3335 4595
DATE 03.02.2023

NOT FOR CONSTRUCTION



NOT FOR CONSTRUCTION

STRUCTURE NAME

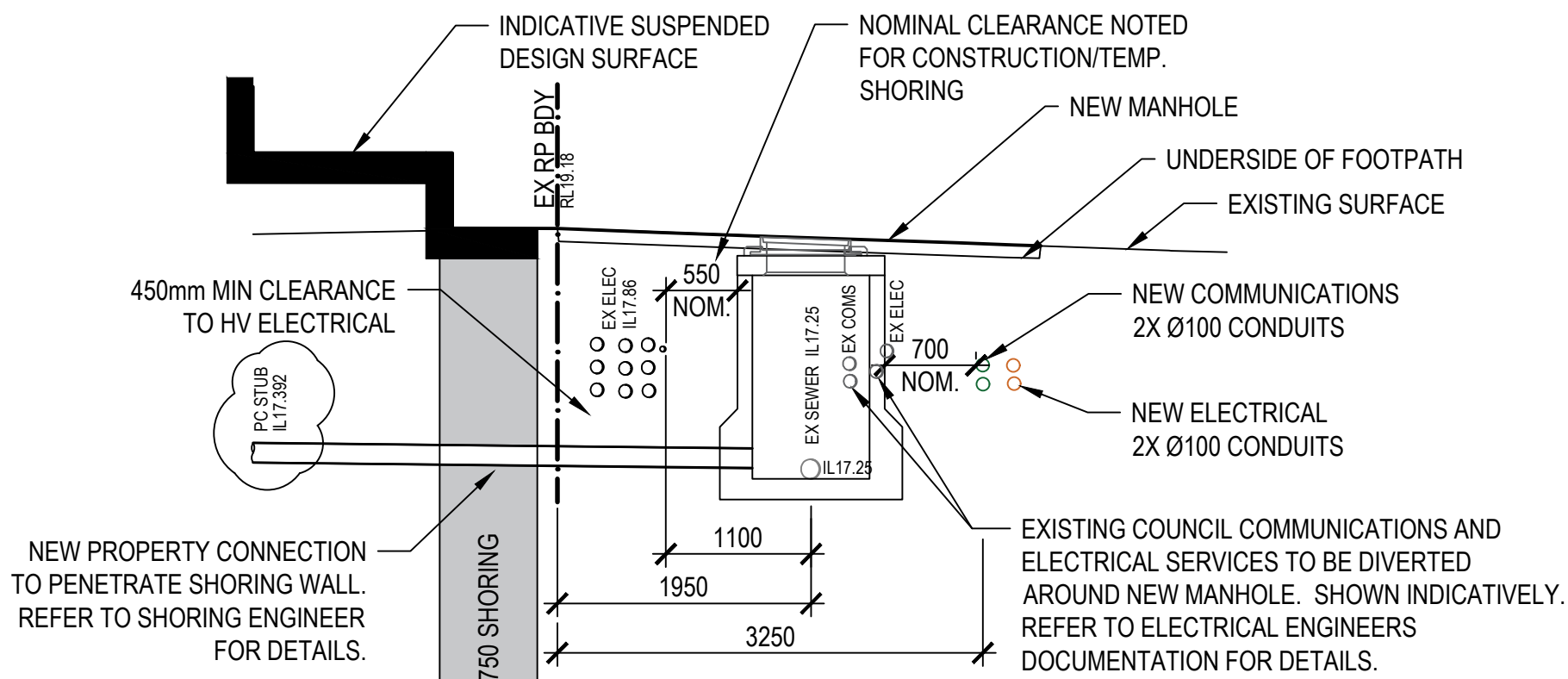
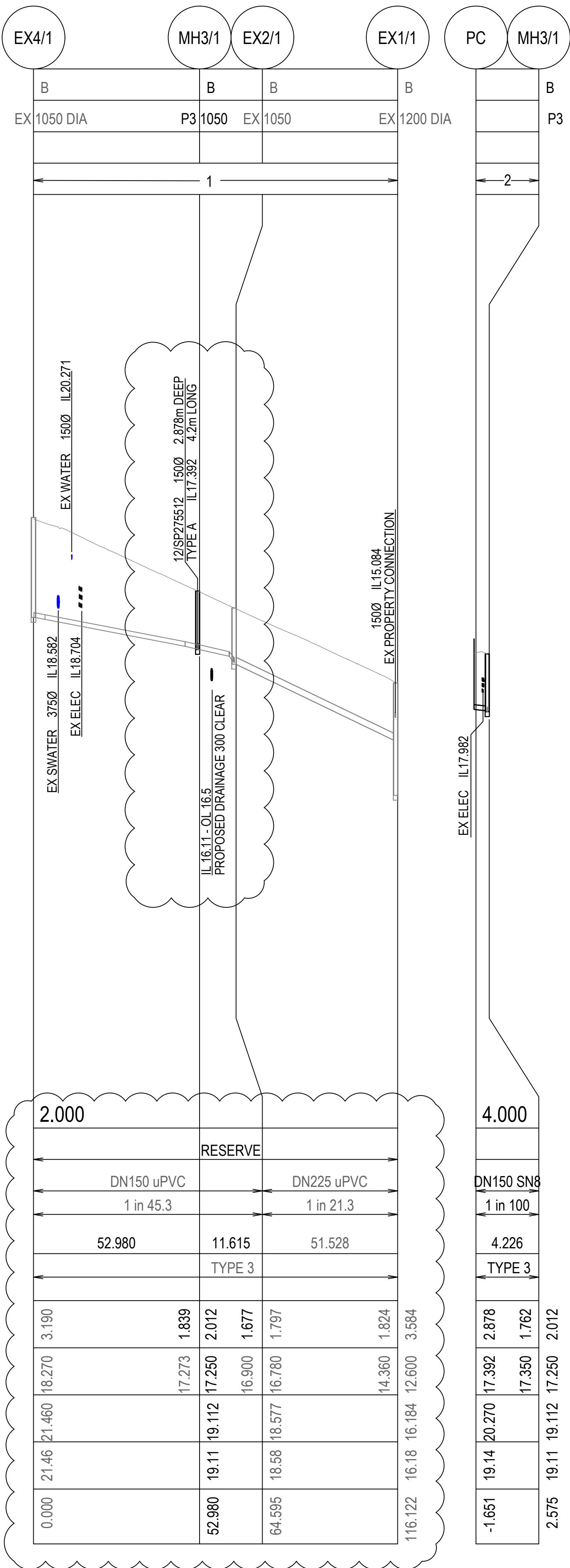
MH/MS COVER TYPE
MH/MS TYPE
BRANCH DROP TYPE
BRANCH LINE No.

PROPERTY CONNECTION (PC) DETAILS			
LOT	SIZE	HC DEPTH	DIST DIS
TYPE	INVERT		

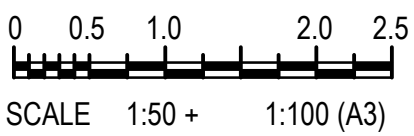
PROP DESCRIPTION

DATUM R.L.

PROP DESCRIPTION
DIA./TYPE/CLASS
GRADE (1 in X)
LENGTH/RADIUS
EMBEDMENT TYPE
DEPTH OF INVERT BELOW FSL
INVERT LEVEL
FINISHED SURFACE LEVEL
EXISTING SURFACE LEVEL
CHAINAGE



PROPERTY CONNECTION SECTION - SERVICE COORDINATION
SCALE 1:50



PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV2024/1481
Date: 14/04/2026



COMPLIANCE APPROVAL referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV2022/1310/4
Condition no: 18 & 19
Date: 28/04/2023



ISSUE	DATE	AMENDMENT	BY	APP
D	14.03.23	FOR APPROVAL	TTM	LS
C	16.02.23	MANHOLE CENTRED ON EX LINE	TTM	LS
B	03.02.23	FOR COMPLIANCE ASSESSMENT	TTM	LS
A	23.01.23	ISSUE FOR COORDINATION	TTM	LS

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CLIENT: NORTHWEST HEALTHCARE PROPERTIES

RDX

LOT 6A NEXUS WAY
SOUTHPORT, QLD 4215

SEWER RETICULATION
LONGITUDINAL SECTION

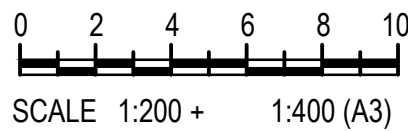
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CHKD: LS	APPRD: LS	DATE: 03.02.2023

mpn JOB	DRAWING No.	REV
9541	SR.3.01	D

FOR APPROVAL

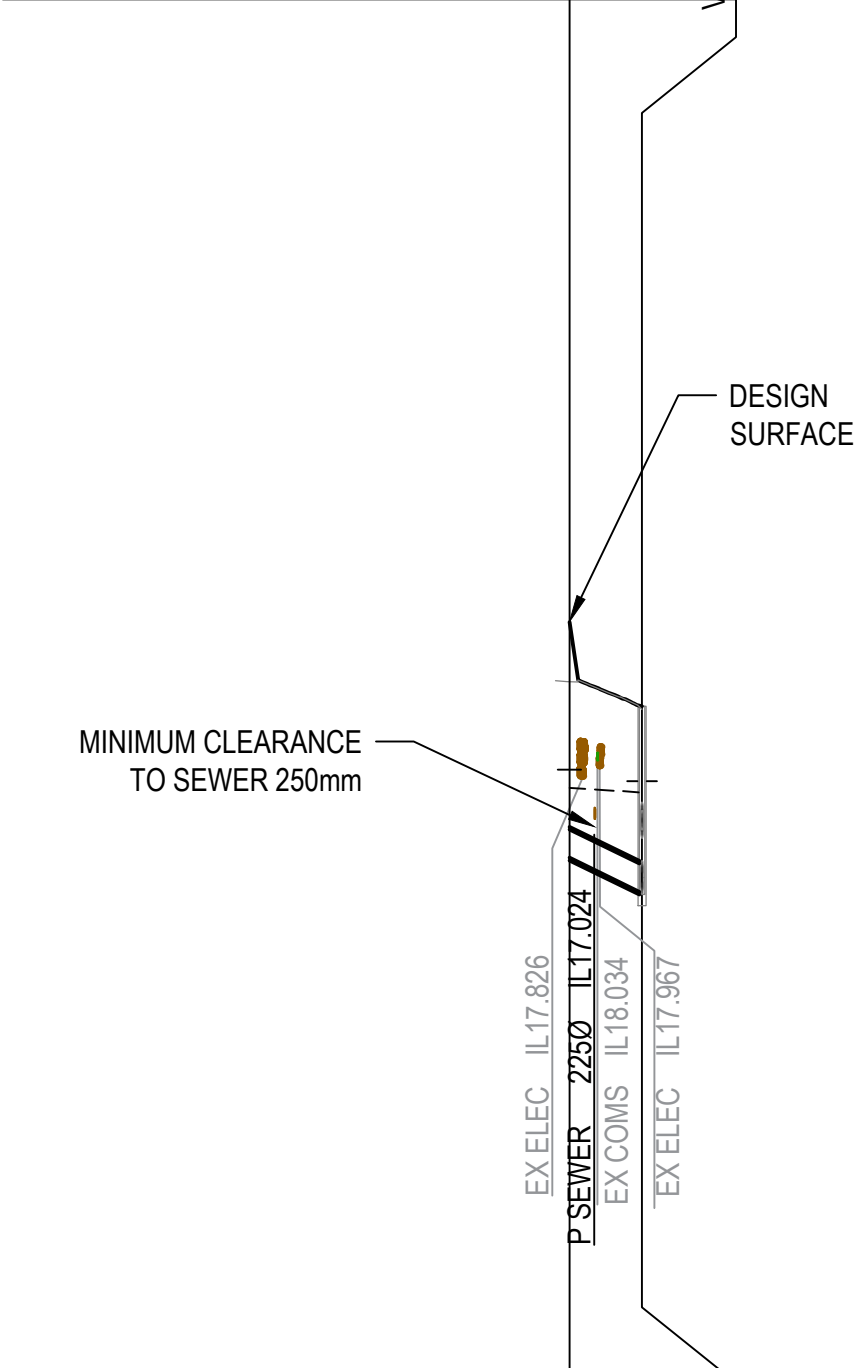
CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: LACHLAN STEPHENSON
(RPEQ 16903)
TELEPHONE: (07) 3335 4595

DATE 03.02.2023



NOT FOR CONSTRUCTION

STRUCTURE NAME	RW1/1
STRUCTURE DESCRIPTION	ROOFWATER CONNECTION
	Y DRAIN TRAFFICABLE HEELSAFE GRATE 900 x 600 GRATE 900 x 600 CHAMBER



PIPE SIZE (mm)	3750
PIPE CLASS	2
PIPE GRADE (%)	4.68%
PIPE SLOPE (1 in X)	1 in 21
FULL PIPE VELOCITY (m/s)	1.24
PART FULL VELOCITY (m/s)	3.16

DATUM RL	3.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	17.813 17.571 17.513 17.659 16.645

PIPE FLOW (m3/s)	0.137
------------------	-------

PIPE CAPACITY (m3/s)	0.379
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DEPTH OF INVERT	2.755
-----------------	-------

INVERT LEVEL OF DRAIN	16.650 16.200 16.160
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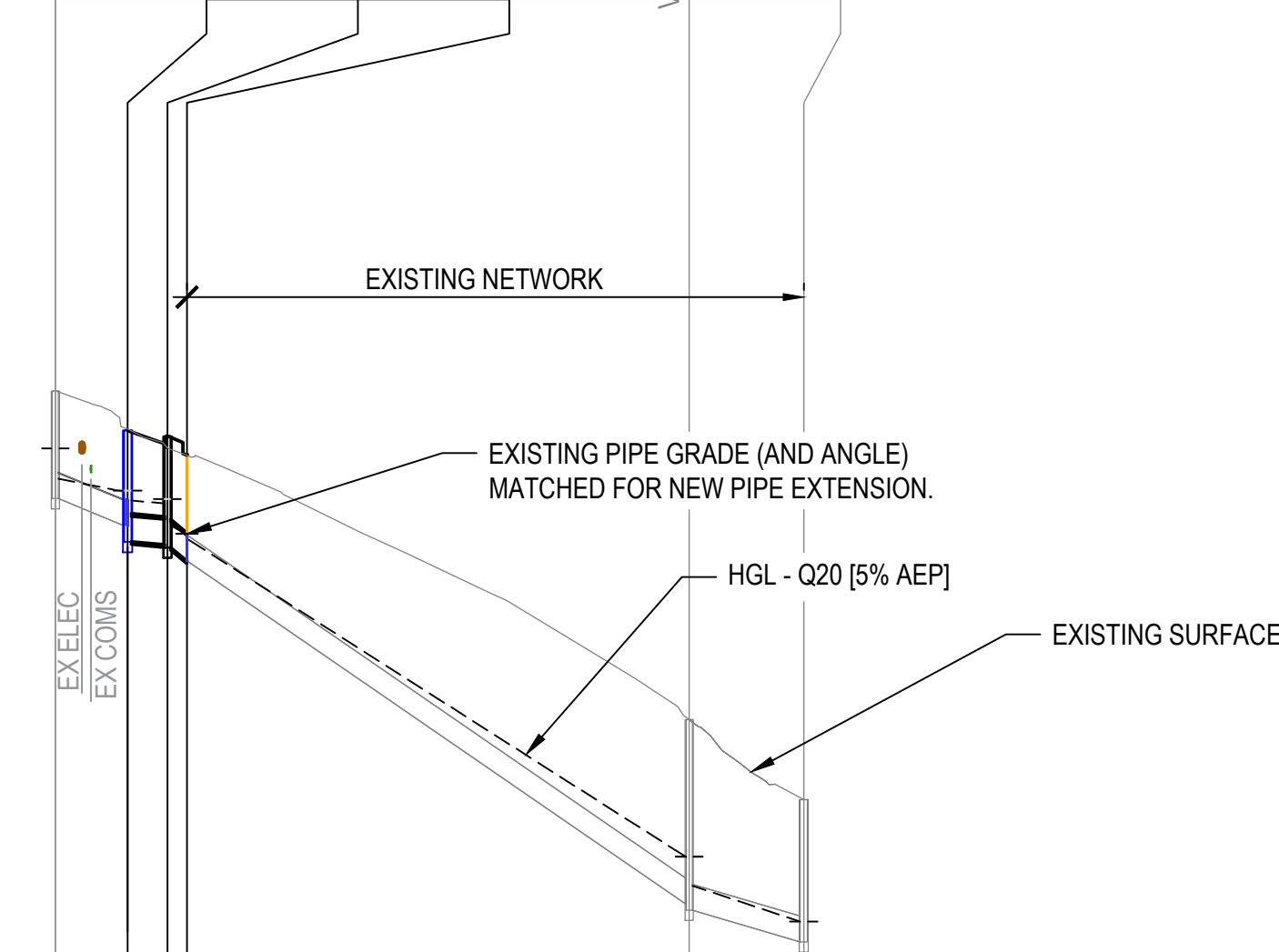
DESIGN SURFACE LEVEL	19.405 18.650 16.760
----------------------	----------------------------

SETOUT COORDINATES	E 537928.422 N 6906932.19 E 537940.835 N 6906927.60
--------------------	--

CHAINAGE	0.000 9.622
----------	----------------

LINE 1

EXISTING FIELD INLET	EX1/2
STD 1050mm MANHOLE	MH2/2
STD LIP IN LINE GRATED INLET PIT 2.4m LINTEL	G3/2
PIPE CONNECTION	4/2
Y DRAIN TRAFFICABLE HEELSAFE GRATE 900 x 600 GRATE 900 x 600 CHAMBER	F15/2
EXISTING MANHOLE	EX6/2



3750	3750	3750	3750	3750
2 EXISTING	2	2	2 EXISTING	2 EXISTING
3.75%	0.75%	6.84%	6.84%	2.76%
1 in 27	1 in 133	1 in 15	1 in 15	1 in 36
1.40	1.39	1.77	1.77	2.53
3.00	1.57	3.99	3.99	3.00

20.468	19.839	19.712	19.583	19.219	14.523	13.584
20.028	19.856	19.734	19.598	19.228	14.530	13.584

0.154	0.153	0.196	0.195	0.279
-------	-------	-------	-------	-------

0.340	0.152	0.459	0.459	0.292
-------	-------	-------	-------	-------

1.566	1.387	1.622	1.575	1.615	2.687	2.070
-------	-------	-------	-------	-------	-------	-------

19.739	19.344	19.109	19.066	19.026	18.831	13.290

0.000	10.519	5.781	16.300	2.852	19.151	73.035	92.186	16.651	108.837
-------	--------	-------	--------	-------	--------	--------	--------	--------	---------

LINE 2

NOTE:
REFER TO CoGC STD DRGS 03-001 TO 03-008 FOR GULLY PIT DETAILS
REFER TO CoGC 03-101 TO 104 DRAWINGS FOR STANDARD MANHOLE DETAILS.

DESIGN:
STORMWATER DRAINAGE DESIGN STORM MODELLED IS 20 YEAR RETURN PERIOD TO ENSURE ROOFWATER CAPACITY IS CATERED FOR.
EXTERNAL INFRASTRUCTURE DESIGN REQUIREMENT 10 YEAR ARI TYPICALLY.

PLANS AND DOCUMENTS referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2024/1481
Date: 14/04/2026

COMPLIANCE APPROVAL referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2022/1310/4
Condition no: 18 & 19
Date: 28/04/2023

CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: LACHLAN STEPHENSON (RPEQ 16903)
TELEPHONE: (07) 3335 4595
DATE 03.02.2023

E	03.04.23	FOR APPROVAL	TTM	LS
D	27.03.23	ROOFWATER INVERT UPDATED	TTM	LS
C	24.02.23	EXTERNAL CAPACITY CONFIRMATION	TTM	LS
B	03.02.23	FOR COMPLIANCE ASSESSMENT	TTM	LS
A	23.01.23	ISSUE FOR COORDINATION	TTM	LS

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CLIENT: NORTHWEST HEALTHCARE PROPERTIES

RDX
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SOUTHPORT, QLD 4215

STORMWATER DRAINAGE LONGSECTIONS

DESIGN: TTM	DRAWN: TTM	SCALES: AS SHOWN
CHKD: LS	APPRD: LS	DATE: 03.02.2023

mpn JOB	DRAWING No.	REV
9541	SW.3.01	E

FOR APPROVAL

NOT FOR CONSTRUCTION

DESIGN STORM: 5% AEP (1 IN 20 YEAR)

EXISTING PIPEWORK SHOWN:
EXISTING NETWORK MODELLED TO
DEMONSTRATE CAPACITY OF
DOWNSTREAM INFRASTRUCTURE.

DESIGN:
STORMWATER DRAINAGE DESIGN STORM
MODELLED IS 20 YEAR RETURN PERIOD
TO ENSURE ROOFWATER CAPACITY IS
CATERED FOR.
EXTERNAL INFRASTRUCTURE DESIGN
REQUIREMENT 10 YEAR ARI TYPICALLY.

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Queensland
Government

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B	03.04.23	FOR APPROVAL	TTM	LS
A	24.02.23	EXTERNAL CAPACITY CONFIRMATION	TTM	LS
ISSUE	DATE	AMENDMENT	BY	APP

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CLIENT:  NORTHWEST
HEALTHCARE PROPERTIES

RDX

**LOT 6A NEXUS WAY
SOUTHPORT, QLD 4215**

STORMWATER DRAINAGE CATCHMENT PLAN & CALCULATIONS

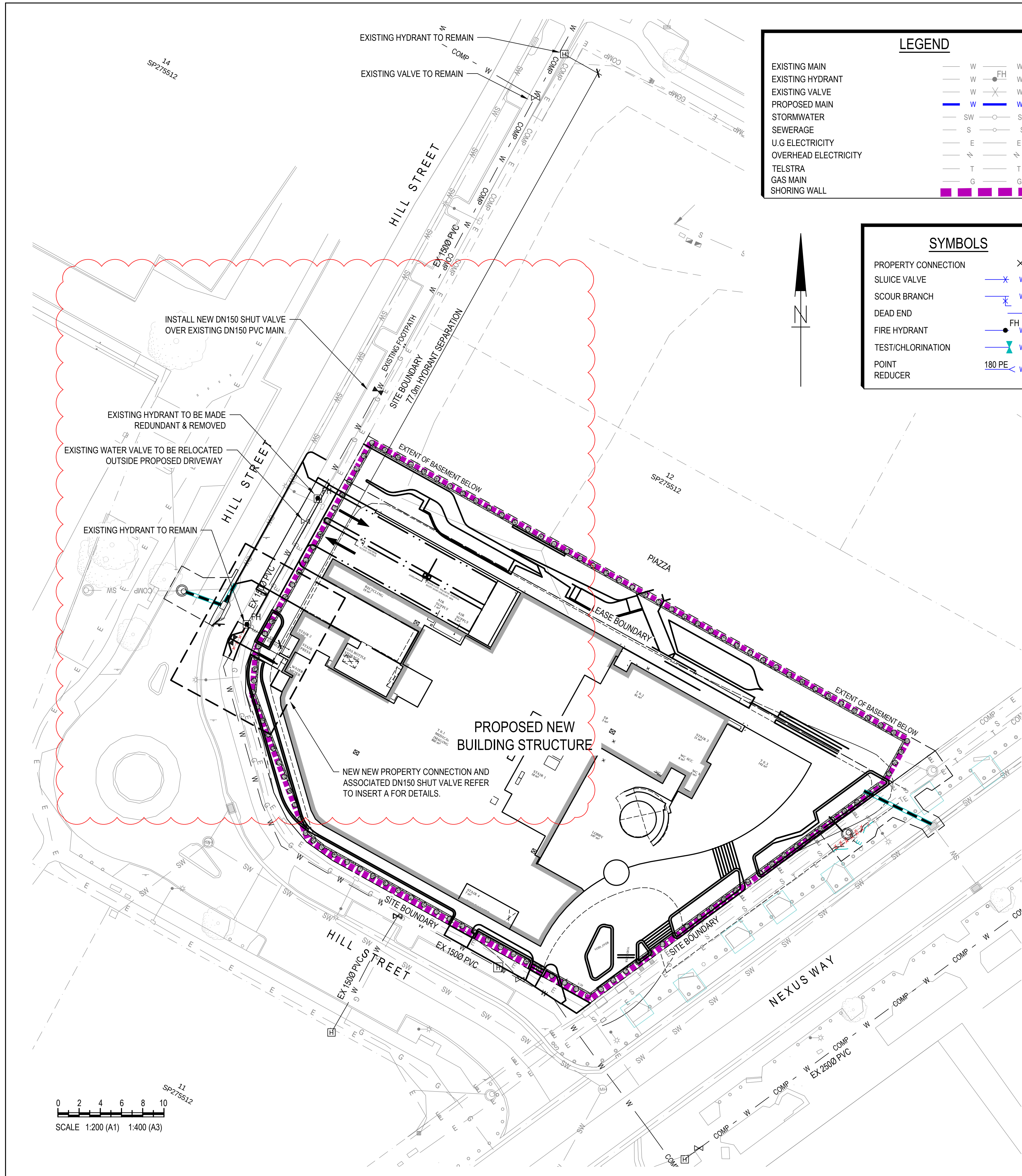
DESIGN: TTM	DRAWN: TTM	SCALES: AS SHOWN
CHKD: LS	APPRD: LS	DATE: 03.02.2023

mpn JOB	DRAWING No.	REV
9541	SW.5.02	B

FOR APPROVAL

CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: LACHLAN STEPHENSON
(RPEQ 16903)
TELEPHONE: (07) 3335 4595

 DATE 03.02.2023

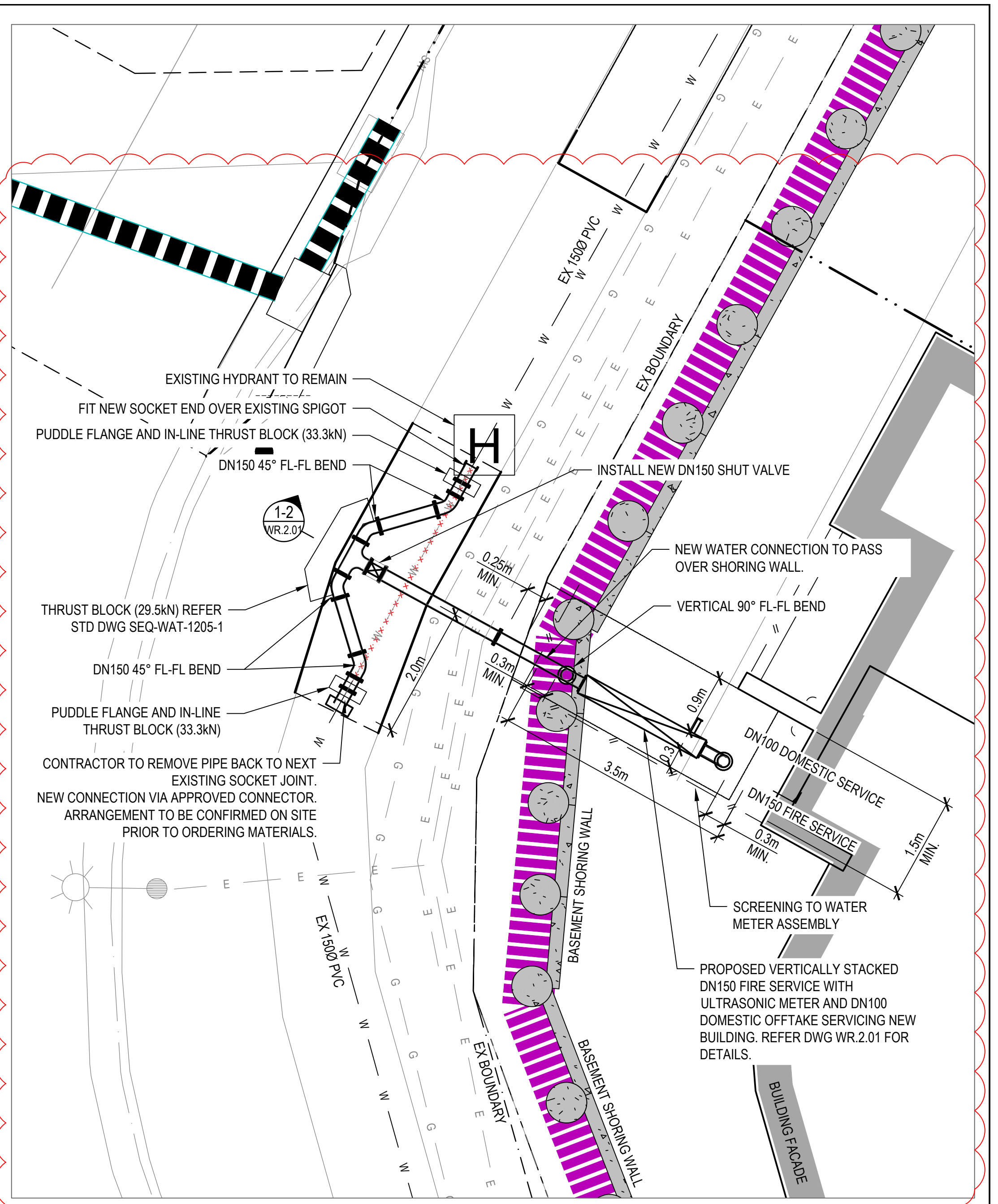


LEGEND

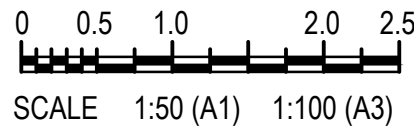
EXISTING MAIN	— W —	W —
EXISTING HYDRANT	— W —	W —
EXISTING VALVE	— W —	W —
PROPOSED MAIN	— W —	W —
STORMWATER	— SW —	SW —
SEWERAGE	— S —	S —
U.G ELECTRICITY	— E —	E —
OVERHEAD ELECTRICITY	— E —	E —
TELSTRA	— T —	T —
GAS MAIN	— G —	G —
SHORING WALL	— G —	G —

SYMBOLS

PROPERTY CONNECTION	×
SLUICE VALVE	— W —
SCOUR BRANCH	— W —
DEAD END	— W —
FIRE HYDRANT	— W —
TEST/CHLORINATION	— W —
POINT	180 PE < W 250 PE
REDUCER	— W —



INSERT A - METER PLAN ARRANGEMENT
SCALE 1:50



COMPLIANCE APPROVAL
referred to in the PDA
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CONTACT: LACHLAN STEPHENSON
(RPEQ 16903)
TELEPHONE: (07) 3335 4595

DATE 03.02.2023

E	20.04.23	ISSUE TO GOLD COAST WATER FOR COMMENT	TTM	LS
D	18.04.23	REVISED METER LOCATION	TTM	LS
C	29.03.23	SKETCH FOR DISCUSSION	TTM	LS
B	03.02.23	FOR COMPLIANCE ASSESSMENT	TTM	LS
A	23.01.23	ISSUE FOR COORDINATION	TTM	LS
ISSUE	DATE	AMENDMENT	BY	APP

mpn consulting

ABN: 39 062 191 799
39 Sherwood Road, Toowong, Qld, 4066

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E: solutions@mpnconsulting.com.au

CLIENT: **NORTHWEST**
HEALTHCARE PROPERTIES

RDX

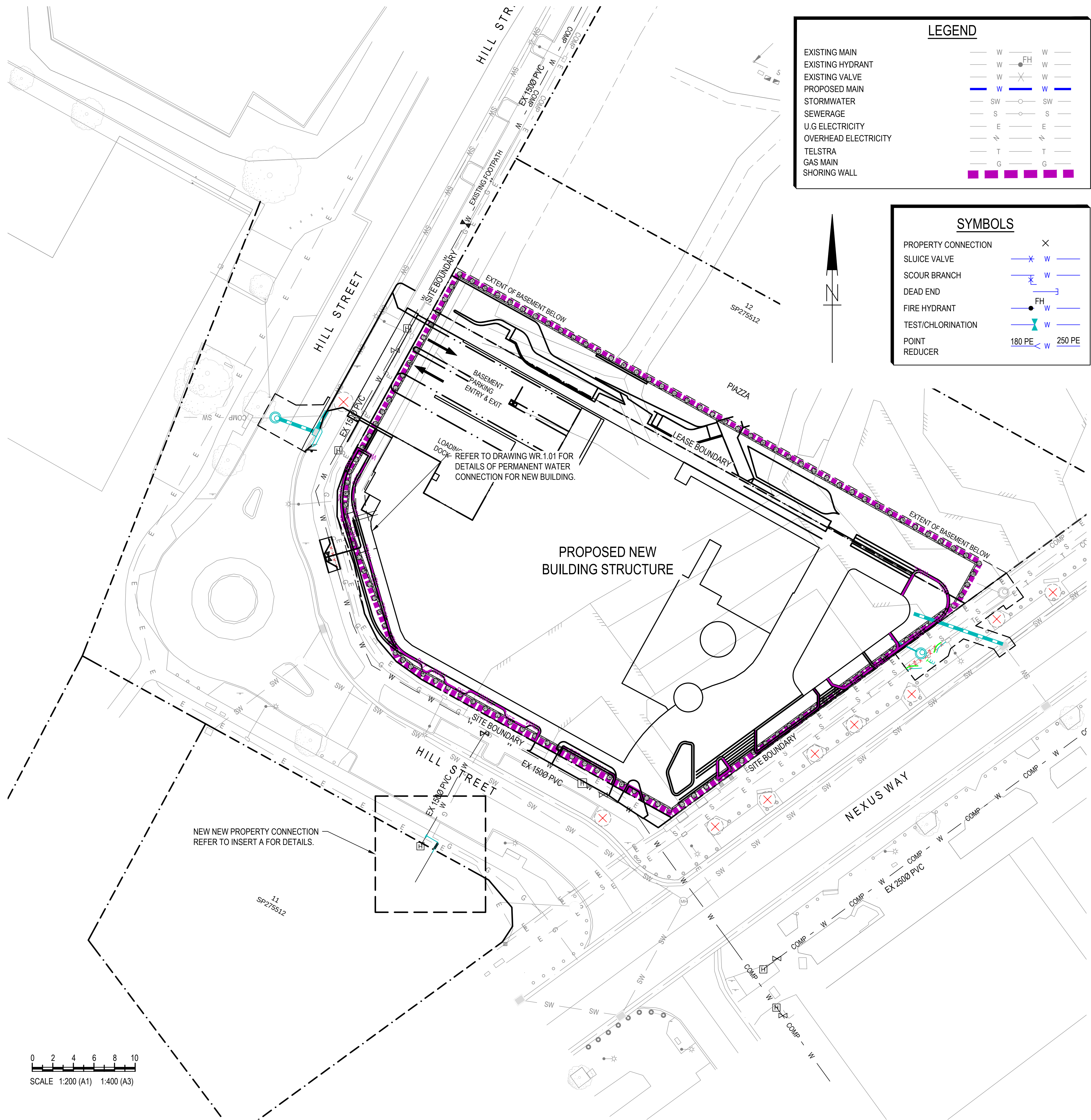
LOT 6A NEXUS WAY
SOUTHPORT, QLD 4215

WATER RETICULATION PLAN

DESIGN: TTM	DRAWN: TTM	SCALES: AS SHOWN
CHKD: LS	APPRD: LS	DATE: 03.02.2023
mpn JOB	DRAWING No.	REV
9541	WR.1.01	E

FOR APPROVAL

NOT FOR CONSTRUCTION

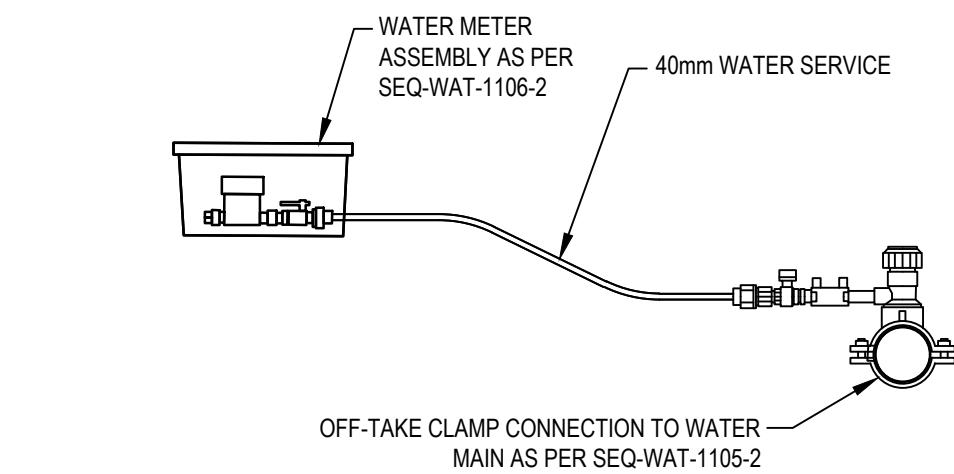


LEGEND

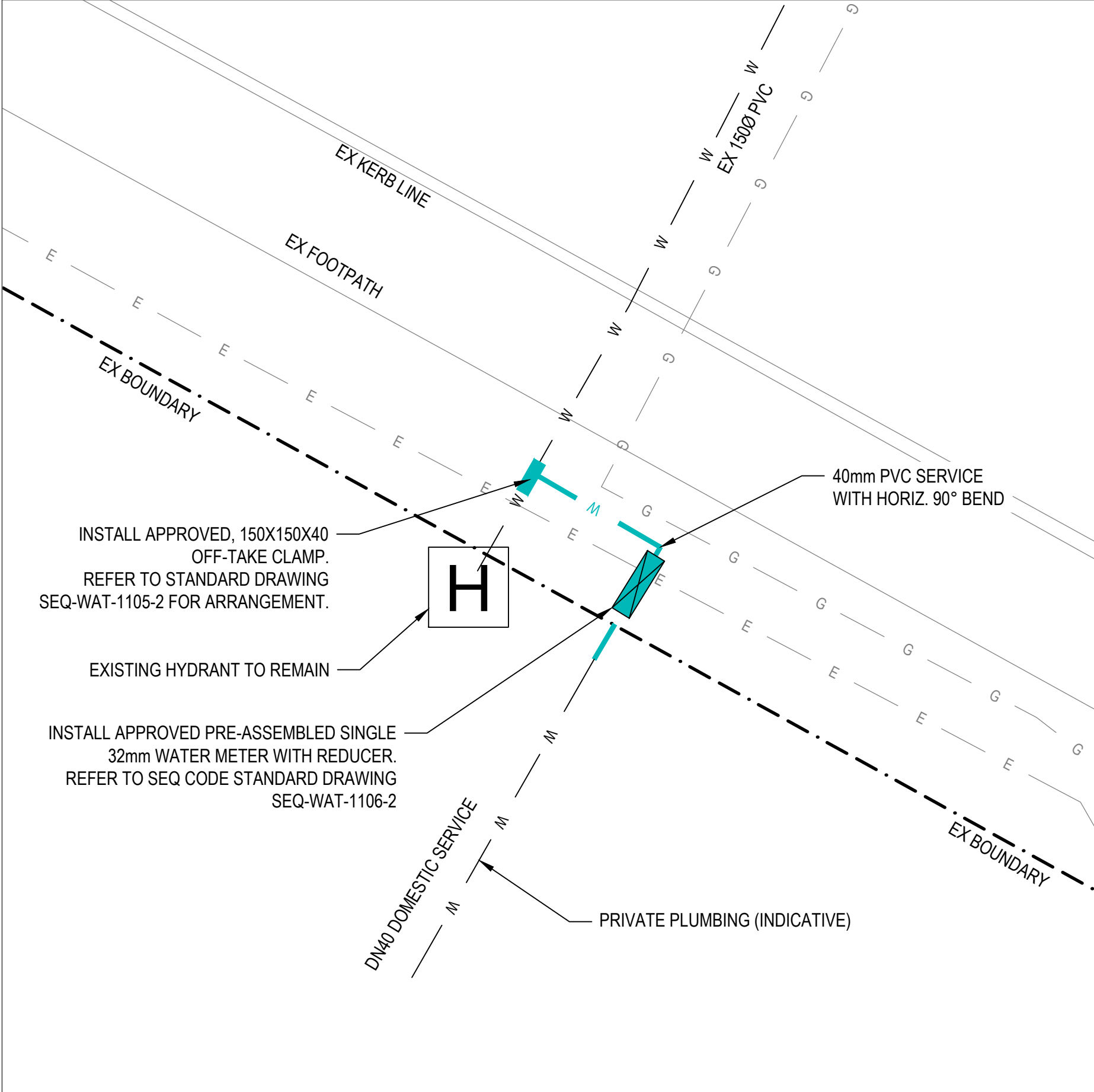
EXISTING MAIN	— W —	— W —
EXISTING HYDRANT	— W —	— W —
EXISTING VALVE	— W —	— W —
PROPOSED MAIN	— W —	— W —
STORMWATER	— SW —	— SW —
SEWERAGE	— S —	— S —
U.G. ELECTRICITY	— E —	— E —
OVERHEAD ELECTRICITY	— E —	— E —
TELSTRA	— T —	— T —
GAS MAIN	— G —	— G —
SHORING WALL	— G —	— G —

SYMBOLS

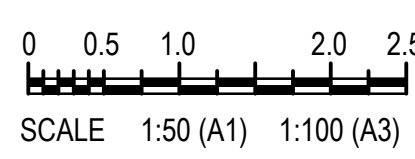
PROPERTY CONNECTION	×
SLUICE VALVE	— W —
SCOUR BRANCH	— W —
DEAD END	— W —
FIRE HYDRANT	— W —
TEST/CHLORINATION	— W —
POINT REDUCER	180 PE < 250 PE



LIVE SERVICE CONNECTION TYPICAL DETAIL
NTS



INSERT A - METER PLAN ARRANGEMENT
SCALE 1:50



PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV2024/1481
Date: 14/04/2026



COMPLIANCE APPROVAL referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV2022/1310/4
Condition no: 18 & 19
Date: 28/04/2023



CONSULTANT: MPN CONSULTING PTY LTD
CONTACT: LACHLAN STEPHENSON (RPEQ 16903)
TELEPHONE: (07) 3335 4595
DATE 14.03.2023

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B	20.03.23	ISSUE FOR APPROVAL	TTM	LS
A	14.03.23	ISSUE FOR COORDINATION	TTM	LS
ISSUE	DATE	AMENDMENT	BY	APP

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CLIENT: **NORTHWEST**
HEALTHCARE PROPERTIES

RDX
LOT 6A NEXUS WAY
SOUTHPORT, QLD 4215

**WATER RETICULATION PLAN
SITE COMPOUND CONNECTION**

DESIGN: TTM	DRAWN: TTM	SCALE: AS SHOWN
CHKD: LS	APPRO: LS	DATE: 03.02.2023

mpn JOB	DRAWING No.	REV
9541	WR.1.02	B

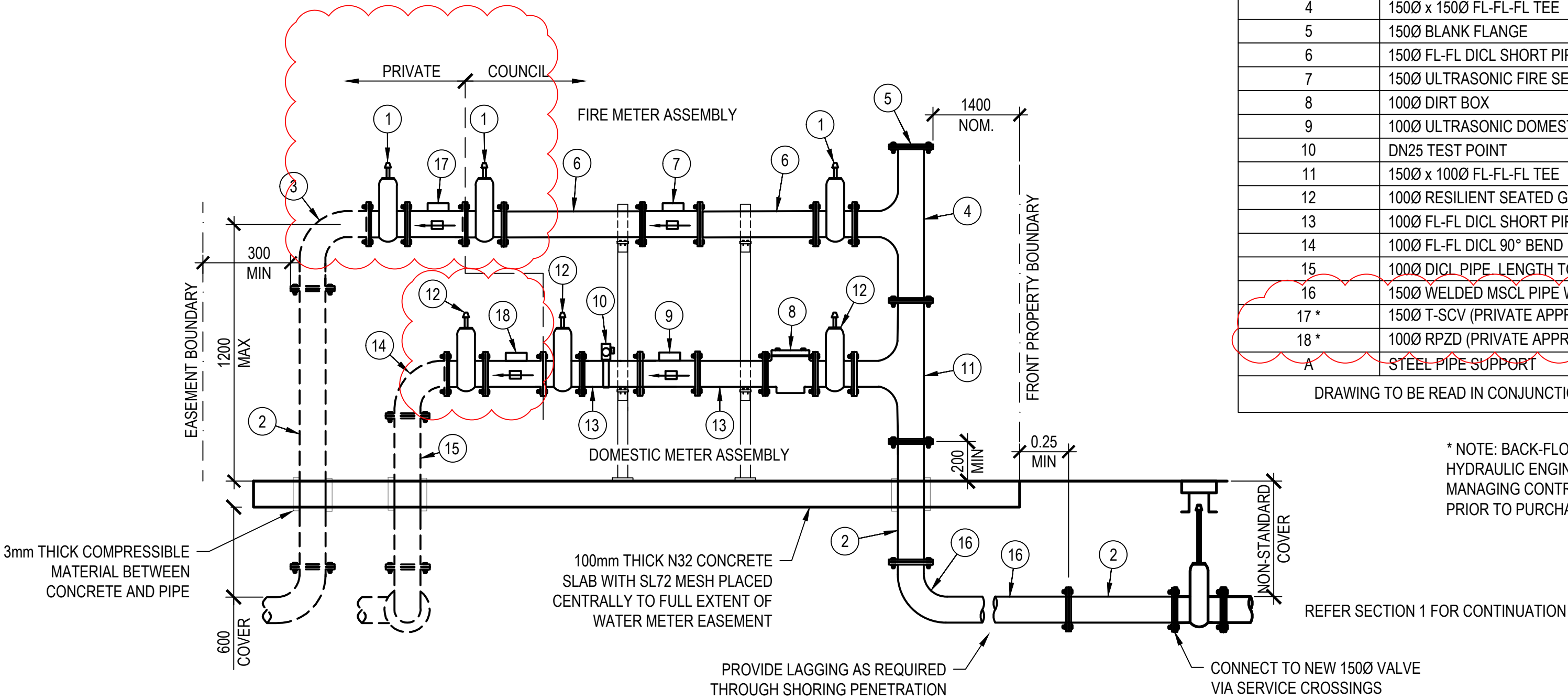
FOR APPROVAL

WATER METER ASSEMBLY COMPONENT LIST

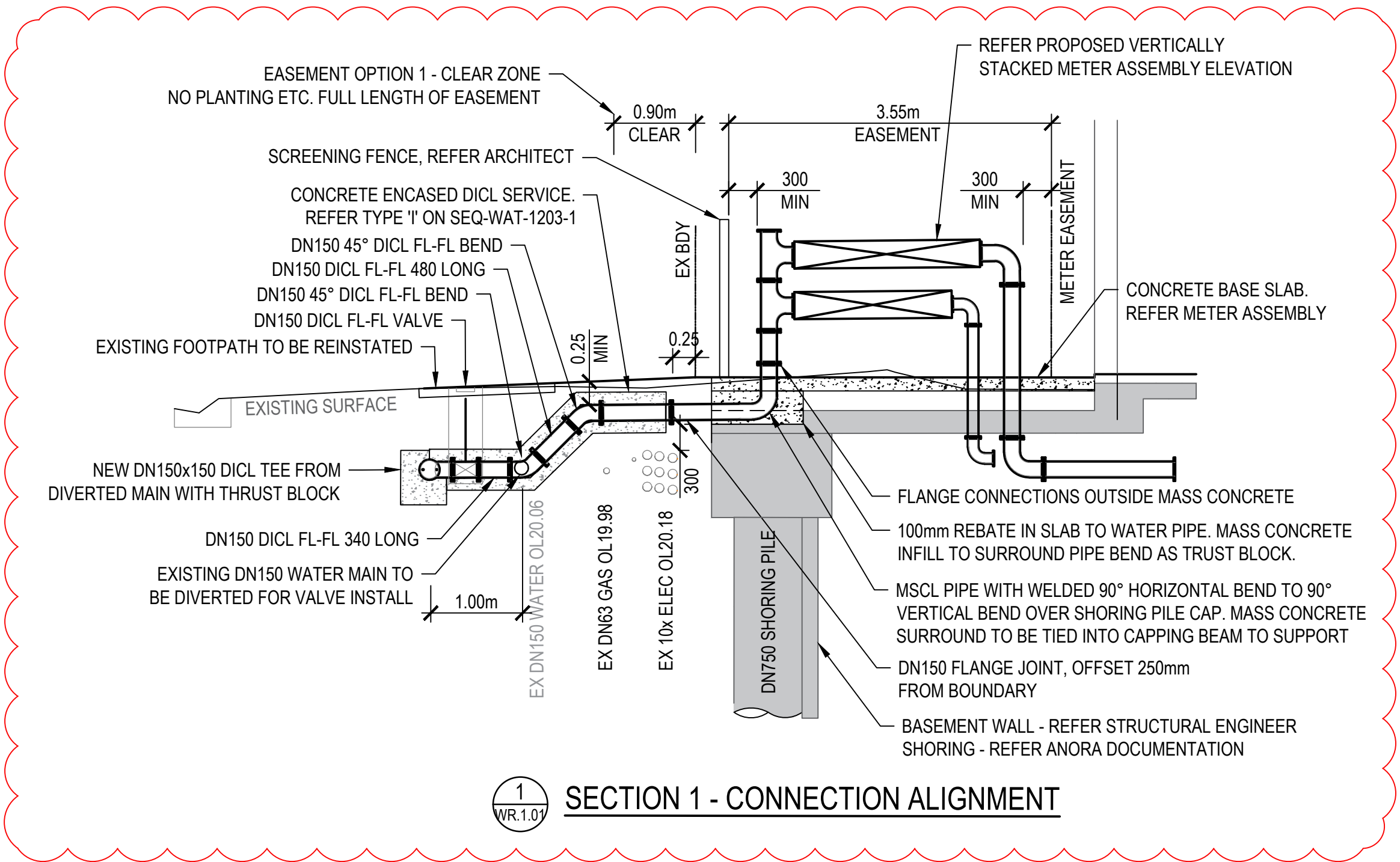
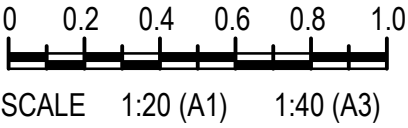
ID NUMBER	DESCRIPTION	QUANTITY
1	1500 RESILIENT SEATED GATE VALVE	3
2	1500 DICL PIPE, LENGTH TO SUIT.	3
3	1500 FL-FL DICL 90° BEND	2
4	1500 x 1500 FL-FL TEE	1
5	1500 BLANK FLANGE	1
6	1500 FL-FL DICL SHORT PIPE	2
7	1500 ULTRASONIC FIRE SERVICE METER	1
8	1000 DIRT BOX	1
9	1000 ULTRASONIC DOMESTIC SERVICE METER	1
10	DN25 TEST POINT	1
11	1500 x 1000 FL-FL TEE	1
12	1000 RESILIENT SEATED GATE VALVE	3
13	1000 FL-FL DICL SHORT PIPE	2
14	1000 FL-FL DICL 90° BEND	1
15	1000 DICL PIPE, LENGTH TO SUIT.	1
16	1500 WELDED MSCL PIPE WITH 90° VERTICAL BEND	1
17 *	1500 T-SCV (PRIVATE APPROVED DEVICE)	1
18 *	1000 RPZD (PRIVATE APPROVED DEVICE)	1
A	STEEL PIPE SUPPORT	2

DRAWING TO BE READ IN CONJUNCTION WITH GCWW STD DWG 11-133, 11-153 & 11-154

* NOTE: BACK-FLOW PREVENTION DEVICES AS SPECIFIED BY HYDRAULIC ENGINEER. TO BE IPAM APPROVED DEVICES. MANAGING CONTRACTOR TO APPROVE NOMINATED DEVICE PRIOR TO PURCHASING.



SECTION 2 PROPOSED VERTICALLY STACKED METER ASSEMBLY ELEVATION
NTS



SECTION 1 - CONNECTION ALIGNMENT
1 WR.1.01

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2022/1310/4
Condition no: 18 & 19
Date: 28/04/2023



PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2024/1481
Date: 14/04/2026



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CONTACT: LACHLAN STEPHENSON
(RPEQ 16903)
TELEPHONE: (07) 3335 4595

DATE 03.02.2023

ISSUE	DATE	AMENDMENT	BY	APP
E	20.04.23	ISSUE TO GOLD COAST WATER FOR COMMENT	TTM	LS
D	18.04.23	REVISED METER LOCATION	TTM	LS
C	29.03.23	SKETCH FOR DISCUSSION	TTM	LS
B	03.02.23	FOR COMPLIANCE ASSESSMENT	TTM	LS
A	23.01.23	ISSUE FOR COORDINATION	TTM	LS

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LOT 6A NEXUS WAY
SOUTHPORT, QLD 4215

WATER RETICULATION DETAILS

DESIGN: TTM	DRAWN: TTM	SCALES: AS SHOWN
CHKD: LS	APPROD: LS	DATE: 03.02.2023

mpn JOB	DRAWING No.	REV
9541	WR.2.01	E

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