#### **GENERAL SPECIFICATION NOTES**

- SUB CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS, SERVICES AND STRUCTURES ON SITE PRIOR TO COMMENCEMENT OF WORK.
- SUB CONTRACTOR SHALL ARRANGE FOR ALL SURVEY SETOUT TO BE CAR RIFDOLIT BY A
- ON COMPLETION OF PROPOSED WORKS ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL
- MAKE SMOOTH TRANSITION TO EXISTING SERVICES AND MAKE GOOD WHERE REQUIRED.
- WHERE NEW WORKS ABUT EXISTING THE SUB CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN
- CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICA EXCAVATIONS ARE TO BE UNDERTAKEN OVER OR IN CLOSE PROXIMITY TO THESE SERVICES, HAND
- STRUCTURAL, MECHANICAL, ELECTRICAL AND COMMUNICATION/SECURITY DRAWINGS AND SPECIFICATIONS.
- SUB CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS VARIOUS PIPE ADAPTORS TO ENSURE PROPER NON CORROSIVE CONNECTION BETWEEN DISSIMILAR PIPEWORK
- ALL ELEVATED SERVICES PIPEWORK SHALL BE CLEARLY LABELLED IN ACCORDANCE WITH
- ALL SERVICE SHOWN ARE INDICATIVE ONLY AND FINAL PIPE DETAILS AND LOCATIONS ARE TO BE OBTAINED BY THE SUB CONTRACTOR CO-ORDINATING WITH AND GAINING CONFIRMATION FROM
- ELECTRICAL CONDUITS FOR HYDRAULIC SERVICES PLANT & FOUIPMENT SHALL BE ORANGE HEAVY DUTY RIGID TYPE IN ACCORDANCE WITH CATEGORY 'A' OF AS3000 AND AS DESCRIBED IN THE
- WHERE REQUIRED CONCRETE THRUST BLOCKS SHALL BE CONSTRUCTED TO ALL BENDS, T's, END POINTS AND ALL OTHER FITTINGS THAT MAY IMPART LOADS INTO THE ADJACENT GROUND. THRUST BLOCKS SHALL BE CONSTRUCTED TO ASSOO REQUIREMENTS AND LOCAL WATER AUTHORITY STANDARDS AND TO SUIT THE BEARING OF THE SOILS IN WHICH THEY ARE CONSTRUCTED,
- ON COMPLETION ALL PIPEWORK SHALL BE SUBJECT TO A PRESSURE TEST REQUIRED BY MANAGING CONTRACTOR, ANY DEFECTS FOUND IN THE SYSTEM SHALL BE REMEDIED AND THE

## **EARTHWORKS NOTES**

PHEFOLLOWING RECOMMENDATIONS ARE PROVIDED FOR THE DEVELOPMENT: ALL WORKS SHALL BE COMPLETED IN ACCORDANCE WITH PROJECT SPECIFIC GEOTECH REPORT

1) EXCAVATION IS ANTICIPATED TO BE PREDOMINANTLY WITHIN SOILS OF VARIBALE NATURE INCLUDING FILL AND POSSIBLY COMPLETELY WEATHERED GRANITE AND COBBLES AND BOULDERS. EXCAVATION COULD BE ACHEVED BY SUITABLY SIZED EXCAVATOR.

2) TEMPORARY EXCAVATION UP TO ABOUT 1M DEPTH MAY BE CUT VERTICAL IN CLAYEY SOILS, AND NOMINALLY 1H: YIN SANDS AND GRAVELS. DEEPER TEMPORARY EXCAVATIONS UP TO ABOUT 2M DEPTH SHOULD BE BENCHED! BATTERED AT NO STEEPER THAN 1.5H: 1V, OR PROVIDED WITH TEMPORARY SHORING!

3) PERMANENT EXCAVATIONS SHOULD BE FORMED NO STEEPER THAN 2H:1V AND SHOULD BE PROVIDED WITH EROSION PROTECTION.

4) CORING THROUGH THE FOOTING OF THE CONCRETE BLOCK RETAINING WALL ALONG THE WESTERN SIDE OF SASHAS APARTMENT MUST BE CARRIED OUT WITH CARE TO ENSURE THAT THE RETAINING WALL IS NOT ADVERSELY IMPACTED.

5) WHERE FILING IS REQUIRED, IT SHOULD BE PLACED IN HORIZONTAL LAYERS OVER PREPARED SUBGRADE AND COMPACT AS PER TABLE 1 BELOW.

Parameter	Cohesive Fill	Non-Cohesive Fill
Fill layer thickness (loose measurement)  Within 1.5m of the rear of retaining walls  Elsewhere	0.2m 0.3m	0.2m 0.3m
Density:		
Beneath Pavements	≥ 95% Std	≥ 70% ID
Beneath Structures	≥ 98% Std	≥ 80% ID
<ul> <li>Upper 150mm of subgrade</li> </ul>	≥ 100% Std	≥ 80% ID
Moisture content during compaction	+ 2% of optimum	Moist but not wet

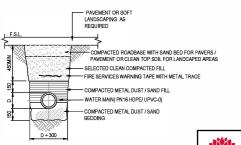
#### SUBGRADE PREPARATION

AHSCA

- SUBGRADE FOR PIPE LAYING SHOULD BE PREPARED AS FOLLOWS:

  6) STRIP EXISTING FILL AND TOPSOIL. REMOVE UNSUITABLE MATERIALS FROM THE SITE (E.G., MATERIAL CONTRIBING DELETERIOUS MATTER). STOCKPILE REMAINDER FOR RE-USE AS
- LANDSCAPING MATERIAL OR REMOVE FROM SITE. EXCAVATE SOILS TO DESIGN SUBGRADE LEVEL, STOCKPILING FOR RE-USE AS ENGINEERED
- COMPACT THE UPPER 150MM DEPTH TO A DRY DENSITY RATIO (AS1289.5.4.1–2007) NOT
- AREAS WHICH SHOW VISIBLE HEAVE UNDER COMPACTION EQUIPMENT SHOULD BE OVER-EXCAVATED A FURTHER 0.3M

AND REPLACED WITH APPROVED FILL COMPACTED TO A DRY DENSITY RATIO NOT LESS



## **DETAIL 1- TRENCH DETAIL**

8/4/24 PRELIMINARY DESIGN

Department of Planning **NSW** Housing and Infrastructure

Issued under the Environmental Planning and Assessment Act 1979

Approved Application No 24/14728

Granted on the 11 March 2025

Signed S Butler

SEWER SITE COORDINATION DESIGN FINALISATION

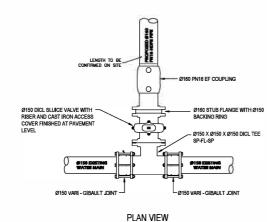
SEWER SITE COORDINATION / GEOTECH REF

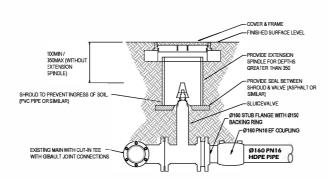
Sheet No 4 of 9

# **KOSCIUSZKO THREDBO** LOTS 794 (BLACKBEAR) & 795 (CANDLELIGHT) SEWER AND WATER SERVICING PROVISIONS

PIPEWORK RETICULATING / PASSING THROUGH PLAY ROOMS, PLAY AREA'S, COT ROOMS, ENCLOSED AREAS AND AREAS NOMINATED BY THE ACOUSTIC CONSULTANT SHALL BE ACOUSTICALLY INSULATED TO SATISFY THE NATIONAL CONSTRUCTION CODE (NCC) AND ACOUSTIC ENGINEER'S

- TRENCHES THROUGH EXISTING ROAD AND CONCRETE AREAS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MINIMUM OF 50mm IN BITUMINOUS PAVING, REINSTATE WITH ADDITIONAL REINFORCEMENT AND DOWELLING AS REQUIRED BY STRUCTURAL ENGINEERS,
- GN18 SUB CONTRACTOR SHALL PROVIDE ALL TIMBERING, SHORING AND SHUTTERING AS NECESSARY TO CONSTRUCT PIPEWORK INCLUDING THE REMOVAL OF SAME UPON COMPLETION OF PIPEWORK.
- GN19 SUB CONTRACTOR SHALL OBTAIN ALL AUTHORITY APPROVALS AND PAY ALL FEES
- GN20 ALL WORK TO BE IN ACCORDANCE WITH LOCALE WATER SUPPLY AUTHORITY, FIRE AND RESCUE NSW, AS3500, AS2118, AS2444, AS2419 AND RELATED STANDARDS AS APPROPRIATE.
- SUB CONTRACTOR TO PROVIDE 'AS BUILT' DOCUMENTATION UPON PRACTICAL COMPLETION OF THE PROJECT AND SHALL BE IN CAD FORMAT (AUTOCAD).
- ORIGIN OF LEVELS:-AUSTRALIAN HEIGHT DATUM AND SHALL BE CONFIRMED ON SITE,
- ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT
- ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND OR AN APPROVED GRANULAR MATERIAL AND COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS1289 E1.1.
- ALL SERVICES THAT CROSS FOOTINGS ETC. SHALL BE BACKFILLED WITHGRANULAR MATERIAL TO SUBGRADE LEVEL AND COMPACTED TO 95% M.M.D.D.





## DETAIL 2 150mm CONNECTION WITH SLUICE VALVE INSTALLATION

**KOSCIUSZKO THREDBO** 



## **SCOTT HARRIS &** ASSOCIATES p/I

## THREDBO VILLAGE LOTS 794 & 795 KOSCIUSZKO THREDBO P/L

DETAIL 3: Ø100 SPRING PATH

FLUSHING HYDRANT

WATER AND SEWER SERVICES

HYDRAULIC SERVICES COVER SHEET SPECIFICATION NOTES **DETAIL SHEET 1** 

ATTENTION: THIS DRAWING HAS BEEN PRODUCED FOR THE PURPOSE OF INDICATING THE DIAGRAMMATIC DESIGN INTENT AS SCOPE OF WORKS REQUIRED FOR THE INSTALLATION OF SERVICES AS DETAILED AND SHOULD NOT BE INTERPRETED AS BEING FINAL THIS DOCUMENT SHOULD BE READ IN CONJUNCTION

## DRAWING LIST

- DETAIL SHEET 3 (SEWER LONG SECTION)

## WATER SERVICES NOTES

1) ALL WORKS TO BE COMPLETED AS DETAILED AND IN ACCORDANCE WITH, AS-3500-1, WATER SERVICES ASSOCIATION OF AUSTRALIA WATER SUPPLY CODE AND RELEVANT AUSTRALIAN /

2) ALLOW TO CO-ORDINATE NEW SITE PROVISIONS WITH BLACKBEAR SITE CONTRACTORS

## SEWER DRAINAGE SERVCIES NOTES

1) ALL WORKS TO BE COMPLETED AS DETAILED AND IN ACCORDANCE WITH , AS-3500- 2 AND WATER SERVICES ASSOCIATION OF AUSTRALIA SEWERAGE DRAINAGE CODE AND RELEVANT AUSTRALIAN / AUTHORITY STANDARDS

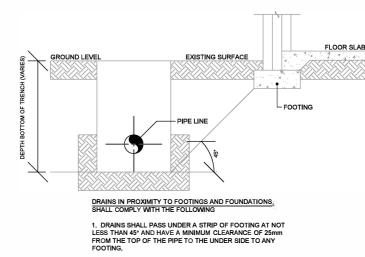
2) ALLOW TO CO-ORDINATE NEW SITE CONNECTION PROVISIONS WITH BLACKBEAR AND CANDLELIGHT SITE CONTRACTORS

## MATERIAL SCHEDULE IN GROUND: Ø110 PN16 HDPE PRESSURE PIPE WITH ELECTRO-FUSION FITTINGS. WATER MAIN PIPE WORK TO HAVE WIRE TRACE AS PER DETAIL 1 -H0-01 ABOVE GROUND: Ø110- PRE INSULATED PIPING EQUAL TO PERMAPIPE (PH 07 3200 2801) WITH PN16 HDPE CARRIER PIPE, CLOSED CELL RIDGED POLYJURETHAME INSULATION WITH LICKED SEAM GALVANIZED STEEL METAL SHEATH

## STOP VALVE WATER SERVICES STOP VALVE IN PATH BOX FIRE HOSE REEL METER EXISTING TYPE OF SERVICE FIRE HOSE REEL HOSE TAP REDUCED LEVEL

## WARNING CO-ORDINATE WITH EXISTING IN GROUND SERVICES





- 2. DRAIN LAID THROUGH FOOTINGS AND WALLS, OTHER THAN BELOW GROUND EXTERNAL WALLS, SHALL BE INSTALLED WITH AN ANNULAR SPACE OF NOT LESS THAN 25mm FILLED WITH A LINER OF FLEXIBLE MATERIAL.
- THE EXCAVATION SHALL COMPLY WITH AS3500 CLAUSE 5.2 PART 2 AND ABOVE DETAIL,
- 4. DRAINS AND PIPES PASSING THROUGH WALLS AND FOOTINGS SHALL COMPLY WITH THE STRUCTURAL ENGINEERING SPECIFICATIONS FOR THE PROJECT.

## **DETAIL 4: PIPEWORK IN RELATION TO** FOOTINGS AND FOUNDATIONS

