Front Valley Walkway Extension

Perisher Ski Resort, Perisher Valley

- notes provided herein and all text which accompanies such detail. Any discrepancy between notes, text and/or details architectural details are to be inferred from these drawings 2. The drawn details are to be read in conjunction with all works purposes only. They are to be read in conjunction with all other project disciplines drawings. No other trade or These structural drawings are to be used for structural
- in accordance with the relevant building codes and Australian standards as required by the certifying authority All works related to these drawings are to be carried out
- construction methods. The builder retains sole responsibility carried out according to these drawings and should be based on architectural information. The builder is to Any dimensions, whether scaled or written, are provided for information only. Works dimensional set out is not to be completed state only. No inference is to be made regards 5 The drawings are provided showing the works in a report any discrepancies to both architect and engineer. coordinate these drawings with architectural set out and
- responsibility to ensure risk and safety management is mitigation. As the builder is responsible for all construction methods and techniques, it remains the builders 6. The structural design depicted in these drawings has been carried out with due regard to construction risk

construction methods and techniques which are

TEMPORARY BRACING

- The structure shown in these drawings has been detailed
- stability required to be self supporting. as stable in its final built condition.
 During construction, and at every stage until completion the structure shown in these drawings does not possess the
- temporary bracing to all building elements during the construction process. This bracing must be installed such that all elements remain in a stable state and experience no 3. It remains the responsibility of the builder to provide

WORKS INSPECTIONS

- Inspections will likely be required to allow as-built certification of the works by the engineer. The builder is to Where inspections are required, the builder shall give a obtain such certification requirements through liaison with the certifying authority and engineer
- builder of their full responsibility to ensure complete and detailed works compliance with the structural design. The comply with the structural design. Inspections, the results of, and any associated documentation in no way relieves the engineer takes no responsibility for any other job aspects to ensure that the structural construction works generally Any engineer inspection is carried out with the sole intent minimum two working days notice to the contract engineer
- builder, the engineer takes no responsibility for any inability 4 Where required inspections are not organised by the observed during the course of an inspection

DESIGN LOAD ALLOWANCES

relevant sections of AS/NZS 1170. Loads are based upon the occupancy types shown on the architectural drawings. Design loads have been allowed for in accordance with the

loor Live Loads Walkway	5.0 kPa
Wind Loads Walkway	Vdes = 60m/s (216 km/h
Snow Loads Walkway	17.1 kPa Ultimate

SITE PREPARATION & FOUNDATIONS

1. All site preparation, foundation and soil-related works are provided structural design should any works be undertaken builder must confirm these parameters via liaison with a based upon assumed parameters inferred from site visit/s. The engineer takes no responsibility for the suitability of the commencement of any construction works. The structural suitably qualified geotechnical professional prior

Per the information referred to in sub-clause 1, the site parameters used in structural design are:

 Allowable Bearing Capacity	Sub-soil type l	Site Classification A (to AS 2870)	
150 kPa	Loam/Rock	A (to AS 2870)	

- All works shall be founded on a consistent sub-soil in accordance with the parameters above. This site class, confirmed by a suitably qualified geotechnical professional sub-soil type and the stated bearing capacity shall be
- of AS 2870 (refer AS 2870 Clause 1.1), then the design has been carried out in accordance with that code. The owner undesirable materials. be carried out to a depth as required to remove these the area in which the footings and/or slab are to rest. This is to to acceptable levels of cracking and/or foundation movement). Where the structure is classified as being within the scope All topsoil, roots and organic matter shall be removed from allowances made under this code (particular attention is drawn should familiarise themselves with the footings performance
- in any case where this is a possibility adjacent structure. Advice should be sought from the engineer conditions. In no case are excavations to undermine any of a suitably qualified geotechnical professional. Temporary authority conditions. Batters are to be provided to the direction Any excavation is to be carried out in accordance with drainage is to be provided to ensure stability of batters in all
- concrete filling is possible only at the discretion of the back-filled under the supervision of a suitably qualified professional to achieve the required bearing capacity. Mass Any over-excavation beyond required levels shall be
- requirements of that code, possibly including but not limited to sand blinding, controlled filling, provision of vapour barriers, sloping of soils away from structure and protection of services, of AS 2870, further site preparation shall be carried out per the Where the structure is classified as being within the scope
- inspection and reinforcement approval under dry conditions. Footings and/or slabs are to be poured within 24 hours of centred under columns, walls and piers over Unless noted otherwise, all footings and piers are to be
- 11. Retaining walls are not to be back filled until core filled and cured. At a minimum this is to be 7 days from point of core flowing outlets. Walls are to be waterproofed where required geofabric with polymer drainage sheet connected to free dewatering system is to be employed such as strip drains or details). Back fill is to be granular and free draining. A suitable filling and if required, the provision of top edge support (refer

STEELWORK

- of AS4100 unless noted otherwise accordance with Australian standards shown in Table 2. All steel is to be of minimum yield stress of 250MPa in All steelwork associated materials, the manufacture and the erection of such materials is to be in accordance with relevant Australian Standards including but not limited to
- the material (based on the thinner material being joined).
 4. All bolts are to comply with AS111, AS1110 and/or AS/NZS1252. Bolts are to be of the category denoted in structural details, being one of the following: Welds shall be GP unless noted otherwise. The minimum size of a fillet weld shall be 6mm, except where material is 6mm or thinner, then it shall be the thickness

4.6/S 8.8/S 8.8/TB 8.8/TF Grade 8.8, snug tightened Grade 8.8, fully tensioned Grade 8.8, fully tensioned Grade 4.6, snug tightened

grooves, etc.

5. Surface preparation for bolted joints is to be in strict accordance with AS4100. One washer is to be located provided where the slope of surfaces in contact exceeds secured to prevent loosening. Tapered washers shall be under any rotated part. The length of a bolt shall be such indicating device. 1:20. Tensioned bolts shall be installed by the part-turn that a minimum of one clear thread plus runout is showing method of tensioning or with the use of a direct-tension after tightening. Any nut subject to vibration shall be

galvanising. All seal plates for hollow members are to be vented in a manner which will not compromise performance. Drain holes are to be provided in any members undergoing

performance of the finish specified below. Any site activity which compromises the factory finish is to be repaired such that the factory finish is achieved. finishes are permissible so long as they do not hinder the All finishes are to comply with the following. Decorative

as Selected
Paint
Finish Ty

8. Fire rating has not been allowed for. The builder is to ensure fire rating is provided as per the architectural and

site delivery/installation is achieved. responsibility is taken by the engineer other than for this solely to ensure conformance with structural intent. No Workshop drawings for structural steelwork shall be architectural intent, dimensional correctness and fitness purpose. The builder retains sole responsibility for ensur drawings by writing. The purpose of checking drawings i until the engineer has confirmed the suitability of such Materials ordering or fabrication shall not be undertaken the commencement of materials ordering or fabrication. provided to the engineer at least 10 working days prior to

according to manufacturer recommendations. reinforcement is made. Anchors are to be load tested Post installed anchors shall only be used where detailed. strength non-shrink grout ensuring full bedding is ach Anchors shall be installed in full compliance with Baseplates/endplates are to be grouted with a high

CONCRETE

standards. All concrete mixes are to be of normal weight be tested in accordance with the requirements set out in proportioned to meet the following characteristics. be in strict accordance with AS 3600 and any associated All concrete materials and construction requirements are to Mixes are

placement, 100mm for strip footings Slump. Maximum Aggregate Size 20mm Suitable for method of 800 microns @ 56 days

Only by engineers

following table for respective structural elements. Covers are clear cover to reinforcement are to be in accordance with the 2. Concrete characteristic compressive strength (28 days) and minimum and are to be maintained at all chamfers, drip

Footing	Element	
40 MPa	Strength	
50	Cover (External)	
n/a	Cover (Internal)	

- 3. Refer to notes on reinforcement for its material and construction requirements.
- varied with the written permission of the engineer (inclusive of any induced detailing, reinforcement changes, etc).

 5. Construction joints are permitted and a color of the engineer (inclusive of any induced detailing). the engineer. Specific detailing will be provided
- than that shown on the structural drawings are allowed No penetrations, blockouts, services embedment, etc, other Contact the engineer where changes to these details are
- materials occurs, and be laid such that the concrete fills all Concrete shall be placed to ensure that no segregation of
- vibration shall be used forms and encompasses all reinforcement as a dense, monolithic mass with no voids or entrapped air. Mechanical
- such as slabs over columns shall be timed to ensure allowance for wet concrete settlement. Minimum pour separation of 1 day. Pouring of elements where formwork restricts movement ensuring that required structural sizes are maintained and Concrete shall be finished to the architectural specification
- after finishing. It shall involve the prevention of loss of excess use of curing compounds. Selection of method and ponding of water, covering with plastic or wet hessian and the minimum of 7 days. Techniques allowed include fogging or responsibility for proper execution of curing remains the moisture and protection from extremes of temperature for a Curing of concrete shall commence as soon as practical cover to reinforcement is not reduced.
- rain or running water and trom excess drying during the curing esponsibility of the builder. Concrete shall be protected from freezing, the effects of
- engineer shall be contacted for written instruction. No repairs are to be carried out otherwise. Where concrete repairs are found to be necessary the

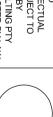
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Notes Sheet 1

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REINFORCEMENT

- relevant Australian Standards including but not limited to All reinforcing materials, the manufacture and the placement of such materials is to be in accordance with AS3600 and AS/NZS 4671
- Such classes include: with AS/NZS 4671, as denoted in the structural drawings. Reinforcement shall be of the proper class, in accordance
- typically pool reinforcement R250N, Hot rolled round 250 MPa D250N, Hot rolled deformed 250 MPa. D500N, Hot rolled deformed 500MPa
- Ductility class L reinforcement shall not be used unless specifically detailed (exception being as is normally detailed for mesh in slab on grade).
- position and cover is achieved and maintained throughout concrete placement and hardening. Plastic tipped steel bar chairs are only permitted where the use does not compromise to lie within the reinforcement cover zone) cover requirements (i.e. no raw steel of the chair is permitted chairs, and tied together sufficiently, to ensure correct All reinforcement shall be uniformly supported on bar
- they remain in full contact.

 6. Splicing of reinforcement shall only be made as shown on 5. Bundled bars are to be tied together sufficiently to ensure
- (proprietary couplers). Lapped splice lengths shall be in the structural drawings. Splicing shall be made by lapping accordance with the following bars or alternatively with the use of mechanical means

⁻or single bars in normal 32MPa concrete Slabs 350mm thick or less, wall verticals

	500	500 700	500 700 950 1200	1200	
Slab	s grea	ater th	an 350	mm thi	Slabs greater than 350mm thick, wall horiz
eams					
	N12	N12 N16	N20	N20 N24 N28	N28
	600 900	900	1250	1250 1600 1950	1950
Columns	mns				
	011	1110	001	OCIN VCIN OCIN STIN CTIN	OCIN

þe zontals and

	NIZ	N lo	NZU	N24	NZ8	
	600	900	1250	1250 1600 1950	1950	
ပ္ပ	Columns					
	N12	N12 N16	N20 N24	N24	N28	
	500	650	800	1050 1350	1350	
ne ak	ove v	/alues	are to	be incr	eased	າe above values are to be increased for (multiply ເ
ă E	naths bv)					

필국 given

ngths by)	
25MPa concrete	x 1.15
Bundled bars	x 1.2 for 3 bars
	x 1.33 for 4 bars
Lightweight concrete	x 1.3
Elements in slip forms	x 1.3
Epoxy coated bars.	× 1.5

- Site bending of reinforcement is permissible if required however shall avoid any impact loading (such as with a 8. Splicing of mesh shall be made such that the two one location may only be performed twice and any further bend shall not be made within 20 bar diameters of the In addition, the minimum length of overlap shall be 100mm. outermost cross bars of sheets being joined are overlapped inclined section of bar at the offset is to be 1 in 6. Where offsets are used in lapped splices, the offset shall be of one bar diameter only. The maximum slope of the nammer), and any damage to the bars surface. Bending in
- of the reinforcement shall not impair the bond with concrete. the written permission and direction of the engineer. Minor surface rust is acceptable. 11. At the time of concrete placement, the surface condition previous. No heat is to be used No welding of reinforcement is to be carried out without

- 1. All timber associated materials, the manufacture and the erection of such materials is to be in accordance with relevant Australian Standards including but not limited to AS1720 and/or AS1684.
- All timber is to be of the wood type
- All timber is to be seasoned and to be of a moisture durability grades as shown in the structural drawings. (hard/soft/manufactured), of the minimum strength and
- content suitable for the location it is being used.
- 4. All fixings, nails, bolts, brackets, etc, are to be galvanised as required to suit the location of use.
- Washers shall be used at the end of each bolt in accordance Bolts shall be pre-bored at a diameter equal to the shank.
- 6. All connections are to be made in accordance with the with Table 4.11 of AS1720.1.
- carried out in accordance with the manufacturers relevant standard. Where manufactured timber is used, all works are to be

FORMWORK

- support all loads supported by it including, but not limited to, materials loads prior to and after pour, the wet weight of the All concrete formwork design and construction remains the responsibility of the builder. All formwork shall be designed to concrete, construction equipment, live loads and any lateral
- or PT induced loads.

 2. Formwork finishes are to be specified by the architect Standards. Attention is to be given to back-propping removal Stripping times shall comply with the relevant Australian
- than specified at 28 days). beyond design limits (including allowance for strengths less in multi-storey construction to avoid slabs being loaded

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Notes Sheet 2

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