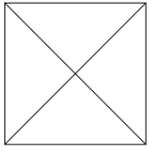
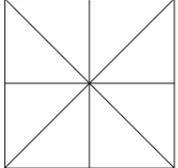
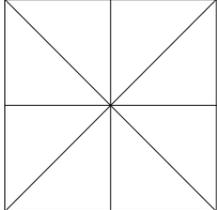
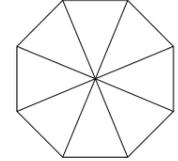
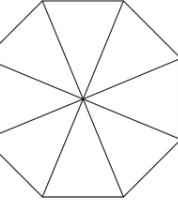


STAR OUTDOOR CAFE UMBRELLAS – SQUARE UMBRELLA RANGE

UMBRELLA SIZE	OPTION 1		OPTION 2	
	BASE SYSTEM	ADDITIONAL WEIGHT REQUIRED	BASE SYSTEM	BORED PIER
 2.0m x 2.0m SQUARE	450mm SQUARE (MK5)	25kg	IPS	Ø300 x 550mm DEEP N32 CONCRETE.
 2.4m x 2.4m SQUARE	450mm SQUARE (MK5)	40kg	IPS	Ø300 x 550mm DEEP N32 CONCRETE.
 3.0m x 3.0m SQUARE	600mm SQUARE (MK6)	40kg	IPS	Ø300 x 550mm DEEP N32 CONCRETE.

NOTE: THESE TABLES ARE BASED ON THE NOMINATED UMBRELLA SYSTEMS BEING NON-PERMANENT AND DISMANTLED AT WIND SPEEDS GREATER THAN 20 KNOTS (37 km/h).

STAR OUTDOOR CAFE UMBRELLAS – OCTAGONAL UMBRELLA RANGE

UMBRELLA SIZE	OPTION 1		OPTION 2	
	BASE SYSTEM	ADDITIONAL WEIGHT REQUIRED	BASE SYSTEM	BORED PIER
 2.4m OCTAGONAL	450mm SQUARE (MK5)	25kg	IPS	Ø300 x 550mm DEEP N32 CONCRETE
 3.0m OCTAGONAL	600mm SQUARE (MK6)	30kg	IPS	Ø300 x 550mm DEEP N32 CONCRETE.

- NOTES:
- DESIGN BASED ON A MAXIMUM WINDSPEED OF 20 KNOTS. FORCES DETERMINED IN ACCORDANCE WITH AS 1170.2.
 - ADDITIONAL WEIGHT REQUIREMENTS ARE IN ADDITION TO THE SELF-WEIGHT OF THE UMBRELLA FRAME, BASE AND CANOPY.
 - ADDITIONAL WEIGHTS SPECIFIED IN TABLES TO BE PROVIDED OVER THE BASE SYSTEM.
 - 450mm SQUARE BASE SYSTEM (MK2) AND 650mm SQUARE BASE TO BE AS PER STAR OUTDOOR SPECIFICATIONS.
 - THE ABOVE REQUIREMENTS DO NOT ALLOW FOR ANY VANDALISM LOADS EXERTED ON THE UMBRELLA FRAMES.
 - DESIGN OF IPS (IN PAVEMENT SOCKET) SYSTEM IS BY OTHERS.
 - BORED PIER FOOTING DESIGN IS BASED ON FOUNDING INTO FIRM NATURAL GROUND. REFER TO BORED PIER NOTES. BASE OF IPS IN-GROUND SOCKET TO EXTEND TO 50mm FROM BASE OF FOOTING, CAST IN.

B	3m UMBRELLA BASE AMENDED TO 600mm SQ	NB 29.05.19
A	PRELIMINARY ISSUE	NB 06.05.19
ISSUE	AMENDMENTS	INT./DATE



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STAR OUTDOOR

PROJECT:
UMBRELLA BASE FIXINGS

PROJECT ADDRESS:
GENERAL USE

TITLE:
TABLES

CONTRACTORS MUST VERIFY ALL DIMENSIONS PRIOR TO ANY OFF SITE FABRICATION.		
DESIGN: NB	SCALE: AS SHOWN	DATE: MAY 2019
SHEET SIZE: A3	DRAWING NUMBER: 19179-2	REVISION: B

GENERAL NOTES

- G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS. ALL DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER FOR DECISION BEFORE PROCEEDING WITH THE WORK.
- G2. ALL DIMENSIONS RELATIVE TO SETTING OUT AND OFF SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED. THESE DRAWINGS SHALL NOT BE SCALED.
- G3. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A SAFE AND STABLE CONDITION AND SHALL ENSURE THAT NO PART IS OVERSTRESSED DUE TO CONSTRUCTION ACTIVITIES.
- G4. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT SAA CODES AND LOCAL STATUTORY AUTHORITIES.
- G5. NO SUBSTITUTIONS SHALL BE MADE OR SIZES OF STRUCTURAL MEMBERS VARIED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. THE APPROVAL OF A SUBSTITUTION FROM THE ENGINEER SHALL NOT BE AN AUTHORISATION FOR AN EXTRA. ANY EXTRA INVOLVED SHALL BE APPROVED WITH THE ENGINEER BEFORE WORK COMMENCES.
- G6. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. ALL LEVELS ARE EXPRESSED IN METRES, AND ARE TO THE STRUCTURAL SURFACE UNLESS NOTED OTHERWISE.

BORED PIERS

- BP1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY SETTING OUT ALL PIER LOCATIONS.
- BP2. EACH PIER LOCATION SHALL BE CHECKED PRIOR TO DRILLING FOR SERVICES WHICH MAY BE DAMAGED BY DRILLING. IF SERVICES ARE FOUND TO BE UNDER THE PROPOSED BORED PIER, THE ENGINEER SHALL BE NOTIFIED AND INSTRUCTIONS OBTAINED BEFORE PROCEEDING.
- BP3. MAXIMUM MISLOCATION HORIZONTALLY FROM CENTRE LINE SHALL NOT EXCEED 20mm IN ANY DIRECTION AND DEVIATION FROM PLUMB NOT TO EXCEED 40mm PER 300mm LENGTH OF PIER, MISLOCATION IN EXCESS OF THESE LIMITS BE REMEDIED BY CONSTRUCTING ADDITIONAL TIE BEAMS AND PIERS AT THE CONTRACTORS EXPENSE, TO THE ENGINEERS DETAILS.
- BP4. THE BUILDER SHALL BE RESPONSIBLE FOR LEVELLING TOP OF PIERS TO THE REQUIRED HEIGHT.
- BP5. ALL PIERS SHALL BE DRILLED IN TO ORIGINAL UNDISTURBED HARD SILTY CLAY. ALL BASES SHALL BE CLEANED OUT OF ALL LOOSE AND DISTURBED MATERIAL PRIOR TO PLACING CONCRETE. CARE SHALL BE TAKEN TO PREVENT LOOSE SURFACE MATERIAL FALLING INTO HOLE.
- BP6. THE PIER HOLES SHALL BE KEPT FREE OF WATER AT ALL TIMES BY BALING AND PUMPING IF NECESSARY, PARTICULARLY PRIOR TO CONCRETING. CONCRETE SHALL NOT BE PLACED IN WATER. THE TOP OF THE HOLE SHALL BE PROPERLY COVERED TO PREVENT SURFACE WATER OR RAINFALL FROM ENTERING THE HOLE.
- BP7. CONCRETE SHALL BE PLACED AS SOON AS POSSIBLE AFTER DRILLING AND AFTER APPROVAL HAS BEEN GIVEN BY THE ENGINEER OR HIS REPRESENTATIVE. CONCRETE AND REINFORCEMENT SHALL BE READY FOR IMMEDIATE PLACEMENT UPON DRILLING AND APPROVAL OF PIER FOUNDATION. AS REQUIRED, STEEL OR CARDBOARD LINERS SHALL BE INSERTED IN THE PIER HOLES TO PREVENT GROUND AND/OR WATER INTRUSION INTO HOLES TO PREVENT ADHESION BETWEEN CONCRETE AND SUBSOIL.
- BP8. ALL BORED PIER CONCRETE TO BE N32 GRADE TO AS3600.
- BP9. CONCRETE SHALL BE COMPACTED BY IMMERSED MECHANICAL VIBRATORS.
- BP10. PROPER SAFETY PRECAUTIONS SHALL BE TAKEN TO AVOID INJURY TO PERSONNEL. UNATTENDED HOLES SHALL BE COVERED OR FENCED OFF AT ALL TIMES.

SAFETY-IN-DESIGN REVIEW

MAGRYN & ASSOCIATES (MAGRYN) HAVE CONDUCTED A PRELIMINARY SAFETY-IN-DESIGN REVIEW OF THE DESIGN SHOWN ON THESE DRAWINGS. THE REVIEW IS BASED GENERALLY ON THE PROCEDURE OUTLINED IN THE SAFE WORK AUSTRALIA PUBLICATION "SAFE DESIGN OF STRUCTURES CODE OF PRACTICE" (JULY 2012).

THE DESIGN HAS NOT BEEN REVIEWED WITH A CONTRACTOR/BUILDER AT THE TIME OF ISSUE FOR TENDER OR CONSTRUCTION. CONSTRUCTION METHODS VARY BETWEEN CONTRACTORS SO IT IS NOT POSSIBLE FOR MAGRYN TO PERFORM AN EXHAUSTIVE SAFETY-IN-DESIGN OR SAFETY-IN-CONSTRUCTION REVIEW. ONCE APPOINTED, THE CONTRACTOR IS REQUIRED TO UNDERTAKE A THOROUGH REVIEW OF THE DESIGN WITH THEIR SUB-CONTRACTORS TO IDENTIFY SAFETY RISKS DURING CONSTRUCTION AND DURING THE LIFE OF THE BUILDING.

CONTRACTORS ARE TO REVIEW THEIR PROPOSED CONSTRUCTION PROGRAMS/SEQUENCE AND FOR THE TEMPORARY FRAMING TO SUPPORT STRUCTURAL ELEMENTS.

LOCATION OF UNDERGROUND AND ABOVE GROUND SERVICES

- MAGRYN HAS NOT CARRIED OUT A DIAL-BEFORE-YOU-DIG REVIEW DURING THE DESIGN PHASE. THE CONTRACTOR SHALL UNDERTAKE A REVIEW OF THEIR OWN TO VERIFY SERVICES ENTERING THE PROPERTY AND IN PROXIMITY TO THE BOUNDARY IN THE STREET/SURROUNDING THE PROPERTY.
- DIAL-BEFORE-YOU-DIG DOES NOT CONFIRM THE LAYOUT OF SERVICES WITHIN THE SITE. THE CONTRACTOR SHALL ALLOW TO ENGAGE A SERVICES LOCATION CONTRACTOR TO CONDUCT A SURVEY OF ALL SERVICES ON THE SITE.

EXCAVATIONS

- PROVIDE BARRIERS TO ALL EXCAVATIONS TO PREVENT FALLS.
- ENSURE MEASURES TO PROTECT ADJACENT PROPERTY / STRUCTURES ARE FOLLOWED STRICTLY IN ACCORDANCE WITH THESE DRAWINGS. IF IN DOUBT CONTACT MAGRYN.
- CONTACT MAGRYN IF GROUND WATER IS ENCOUNTERED DURING EXCAVATION.
- IT IS RECOMMENDED THAT FOOTING EXCAVATION IS UNDERTAKEN THROUGH A VACUUM TRUCK TO LIMIT ANY POSSIBLE INTERFERENCE WITH UNDERGROUND SERVICES.

B	NO CHANGE	NB 29.05.19
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