

TABLE – OUTREACH DESCRIPTION			
ITEM No.	SPIGOT SIZE “A”	NOMINAL LENGTH “B”	UPLIFT ANGLE
1	42mm	4.5m	9°
2	42mm	3.5m	10°
3	42mm	3.0m	12°
4	42mm	1.5m	24°
5	34mm	0.75m	45°

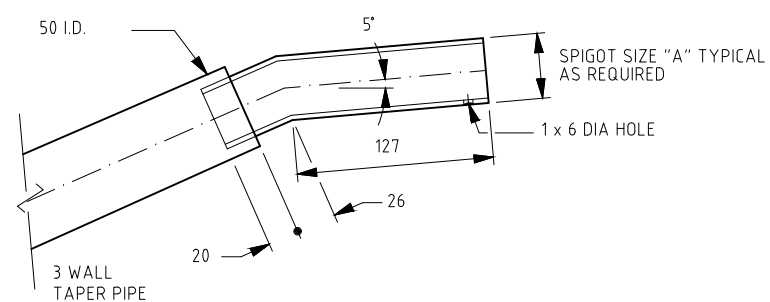
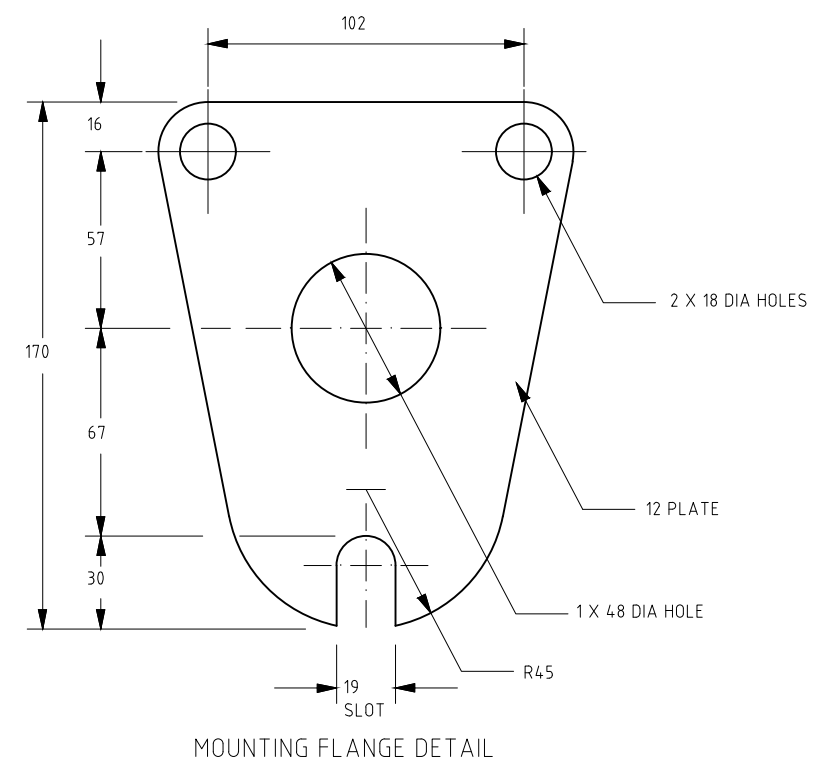


TABLE - WIND LOADING CRITERIA			
TERRAIN CATEGORY	A4	B	C
ULTIMATE LIMIT STATE	AVERAGE RECURRENCE INTERVAL OF 500 YEARS WITH $V_{500} = 45\text{m/s}$	AVERAGE RECURRENCE INTERVAL OF 500 YEARS WITH $V_{500} = 57\text{m/s}$	AVERAGE RECURRENCE INTERVAL OF 500 YEARS WITH $V_{500} = 69.3\text{m/s}$
SERVICEABILITY LIMIT STATE	AVERAGE RECURRENCE INTERVAL OF 25 YEARS WITH $V_{25} = 37\text{m/s}$	AVERAGE RECURRENCE INTERVAL OF 25 YEARS WITH $V_{25} = 39\text{m/s}$	AVERAGE RECURRENCE INTERVAL OF 25 YEARS WITH $V_{25} = 47\text{m/s}$
DESIGN HEIGHT	AS APPROPRIATE FOR THE POLE		
TERRAIN CATEGORY	AS DETERMINED BY STRUCTURAL ENGINEER AS APPROPRIATE FOR THE SITE		
M_{ZCAT}	AS DETERMINED BY STRUCTURAL ENGINEER FOR THE HEIGHT AND TERRAIN CATEGORY		
M_S	1	1	1
M_T	AS DETERMINED BY STRUCTURAL ENGINEER FOR THE LOCAL TOPOGRAPHY		
M_D	AS DETERMINED BY STRUCTURAL ENGINEER AS APPROPRIATE FOR THE WIND DIRECTION	AS DETERMINED BY STRUCTURAL ENGINEER AS APPROPRIATE FOR THE ELEMENT UNDER CONSIDERATION	




- NOTES:

1. THE DESIGN IS INDICATIVE ONLY AND THE BELOW REQUIREMENTS ARE MINIMUM REQUIREMENTS. POLE MANUFACTURER / SUPPLIER TO DESIGN POLE, FOOTINGS AND ALL ATTACHMENTS IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS BELOW AND PROVIDE DESIGN DRAWINGS AND NT SECTION 40 STRUCTURAL DESIGN CERTIFICATION.
2. ALL WELDING AND WELD PREPARATION SHALL BE IN ACCORDANCE WITH AS1554.
3. CIRCUMFERENTIAL WELDS TO BE JOGGED BUTT TYPE. LONGITUDINAL WELDS TO BE SINGLE BUTT TYPE. ALL WELDS TO BE MADE BY CONTINUOUS AUTOMATIC PROCESS AND ARE NOT TO BE DRESSED SMOOTH.
4. AFTER FABRICATION ALL COMPONENTS TO BE ACID DE-SCALED AND HOT DIPPED GALVANIZED MINIMUM 450g/sq.m TO AS4680.
5. WIND LOADING TO COMPLY WITH THE REQUIREMENTS OF AS/NZS 1170.1:2011 INCLUDING:
 - IMPORTANCE LEVEL 2 WITH PARAMETERS AS SHOWN IN THE TABLE - WIND LOADING CRITERIA TABLE BELOW.
 - MINIMUM ALLOWANCE FOR LUMINARIES TO BE WIND AREA OF 0.15sqm AND WEIGHT OF 15kg (UNLESS PROJECT SPECIFIC LUMINARIES REQUIRES LARGER VALUES) AND DRAG COEFFICIENT OF 1.2 (OR AS OTHERWISE ADVISED BY LUMINARIES MANUFACTURER).
 - ALLOWANCE FOR REQUIRED ATTACHMENTS AS APPROPRIATE FOR PROJECT INCLUDING CCTV CAMERAS, BANNERS, WEATHER STATION, EQUIPMENT BOXES, MASTS ECT. .
6. OUTREACHES ARE TO CONFORM TO THE REQUIREMENTS OF AS4100 AND AS1798.
7. OUTREACHES ARE TO HAVE CONTINUOUS TAPER OVER THEIR ENTIRE LENGTH.
8. OUTREACHES OF A SHARP PRISMATIC SHAPE, i.e. POLYGONAL WILL NOT BE CONSIDERED DUE TO THEIR INCREASED DRAG COEFFICIENT.
9. ALL OUTREACH MANUFACTURERS SHALL COMPLY WITH ISO 3834.

0	ISSUED AS A STANDARD DRAWING	AUG 2020	CJ	AF
No.	DESCRIPTION	DATE	INIT.	DEPT/COMPANY.
AMENDMENTS				

DRAWN C J	CHECKED PB
DATE AUGUST 2020	DATE AUGUST 2020
DESIGNED C J	CHECKED PB
DATE AUGUST 2020	DATE AUGUST 2020
DESIGN PROJECT LEADER PB	NTG PROJECT MANAGER N/A
DATE AUGUST 2020	DATE AUGUST 2020



**Northern Territory
Government**

SUBDIVISION DEVELOPMENT GUIDELINES STANDARD DRAWINGS LIGHTING					
OUTREACH ARMS TYPICAL DETAILS					
NTG PROJECT No. -	NTG ASSET No. -	SHEET No. 11 OF 16	NTG DRAWING No. SS5010	AMENDMENT 0	SHEET SIZE A1