

<u>STANDARD</u>	<u>DESCRIPTION</u>	<u>DRAWING</u>
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LT 010-02	COLUMN OPTIONS	C-ES-100-02
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LT 300-01	UNDERGROUND ELECTRICAL ENCLOSURE Cover	C-ES-133-01
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LT 310-03	UNDERGROUND ELECTRICAL ENCLOSURE Internal Board Options	C-ES-133-04
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LT 900-02	TRENCHES Park Lands	C-ES-141-01
LT 900-03	BORED TRENCHES Park Lands	C-ES-141-02

DESIGNED PK/TL	CHECKED TL		<p align="center">CONSTRUCTION STANDARD Lighting and Electrical DRAWING INDEX</p>	STANDARD NUMBER	SHEET No.
DRAWN JR/JB	CERTIFIED RS				
DATE 05/2001	SCALE N.T.S.				
DRWG No. C-ES-001-00					
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DESCRIPTION

EXISTING
(THIN PEN - 0.18mm)

PROPOSED
(THICK PEN - 0.5mm)

ETSA OVERHEAD CABLES		
ETSA UNDERGROUND SERVICE DUCTS/CABLES		
ACC SPARE CONDUIT		
ACC PUBLIC LIGHTING CONDUIT		
CONSUMER SERVICE CONDUIT		
COMMON TRENCH CONDUITS		
ACC TRAFFIC SIGNAL DUCT		
PRIVATE COMMUNICATIONS CARRIER		
TELSTRA		
GAS		
SEWER		
WATER		
KERB LINE		
STOBIE POLE		
STOBIE POLE TO BE REMOVED		
CONSUMER METER SWITCHBOARD	CMS	CMS
ETSA SERVICE FUSE ENCLOSURE	F	F
ETSA SERVICE PIT	SP	SP
ETSA FUSE PIT	ETSA	ETSA
ACC FUSE PIT	ACC	ACC
ACC FUSE PIT WITH EARTH STAKE	ACC	ACC(E)
ACC UNDERGROUND PUBLIC LIGHTING SWITCHBOARD	ACC	MSB
3.5M POST TOP LANTERN	PT	PT
LIGHTING COLUMN (6.5M, 9.0M OR 10.5M AS NOTED)		
LIGHTING COLUMN (WITH COLUMN MOUNTED SWITCHBOARD)	SB	SB
LIGHTING COLUMN - DOUBLE OUTREACH		
LIGHTING COLUMN TO BE REMOVED		
ABOVE GROUND LEVEL	A.G.L.	A.G.L.

DESIGNED	PK/TL	CHECKED	TL
DRAWN	JR/JB	CERTIFIED	RS
DATE	05/2001	SCALE	N.T.S.
DRWG No.	C-ES-001-01		

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CONSTRUCTION STANDARD
Lighting and Electrical
ELECTRICAL LEGEND



STANDARD NUMBER	SHEET No.
LT 002	01

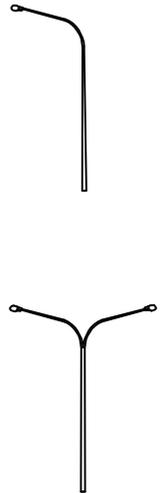
CODE NO.	MOUNTING HEIGHT (metres)	FOOTING TYPE (G)round or (F)lange	OUTREACH ARM		COLUMN TYPE	(B)ANNER	(T)RAFFIC SIGNAL (lugs)	COLUMN STANDARD REFERENCE	COLUMN DRAWING REFERENCE
			(metres)	(S)ingle or (D)ouble					
3.5/G	3.5	G			RIGID			LT120-01 [Option A]	C-ES-121-01 [Option A]
3.5/G	3.5	G			RIGID			LT120-01 [Option B]	C-ES-121-01 [Option B]
3.5/G	3.5	G			RIGID			LT130-01	C-ES-123-01
3.5/G	3.5	G			RIGID			LT110-01	C-ES-122-01
								LT110-02	C-ES-122-02
								LT110-03	C-ES-122-03
6.5/G/0.5/S	6.5	G	0.5	S	RIGID			LT400-01	C-ES-102-01
6.5/G/0.5/S/T	6.5	G	0.5	S	RIGID		T	LT400-02	C-ES-102-02
9.0/G/2.0/S	9.0	G	2.0	S	RIGID			LT410-01	C-ES-103-01
9.0/G/2.0/S/B	9.0	G	2.0	S	RIGID	B		LT410-01	C-ES-103-01
9.0/G/2.0/S/T	9.0	G	2.0	S	RIGID		T	LT410-02	C-ES-103-02
9.0/F/2.0/S/T	9.0	F	2.0	S	IMPACT ABSORBING		T	LT410-02	C-ES-103-02
9.0/G/2.0/S/B/T	9.0	G	2.0	S	RIGID	B	T	LT410-01	C-ES-103-01
9.0/F/2.0/S/B/T	9.0	F	2.0	S	IMPACT ABSORBING	B	T	LT410-01	C-ES-103-01
9.0/G/3.0/S	9.0	G	3.0	S	RIGID			LT410-01	C-ES-103-01
9.0/G/3.0/S/B	9.0	G	3.0	S	RIGID	B		LT410-01	C-ES-103-01
9.0/G/3.0/S/T	9.0	G	3.0	S	RIGID		T	LT410-02	C-ES-103-02
9.0/F/3.0/S/T	9.0	F	3.0	S	IMPACT ABSORBING		T	LT410-02	C-ES-103-02
9.0/G/3.0/S/B/T	9.0	G	3.0	S	RIGID	B	T	LT410-01	C-ES-103-01
9.0/F/3.0/S/B/T	9.0	F	3.0	S	IMPACT ABSORBING	B	T	LT410-01	C-ES-103-01
9.0/G/4.5/S	9.0	G	4.5	S	RIGID			LT410-01	C-ES-103-01
9.0/G/4.5/S/B	9.0	G	4.5	S	RIGID	B		LT410-01	C-ES-103-01
9.0/G/4.5/S/T	9.0	G	4.5	S	RIGID		T	LT410-02	C-ES-103-02
9.0/F/4.5/S/T	9.0	F	4.5	S	IMPACT ABSORBING		T	LT410-02	C-ES-103-02
9.0/G/4.5/S/B/T	9.0	G	4.5	S	RIGID	B	T	LT410-01	C-ES-103-01
9.0/F/4.5/S/B/T	9.0	F	4.5	S	IMPACT ABSORBING	B	T	LT410-01	C-ES-103-01



NOTE: FOR FOOTING DETAILS REFER STANDARD LT020-01 (Drawing No. C-ES-101-01).

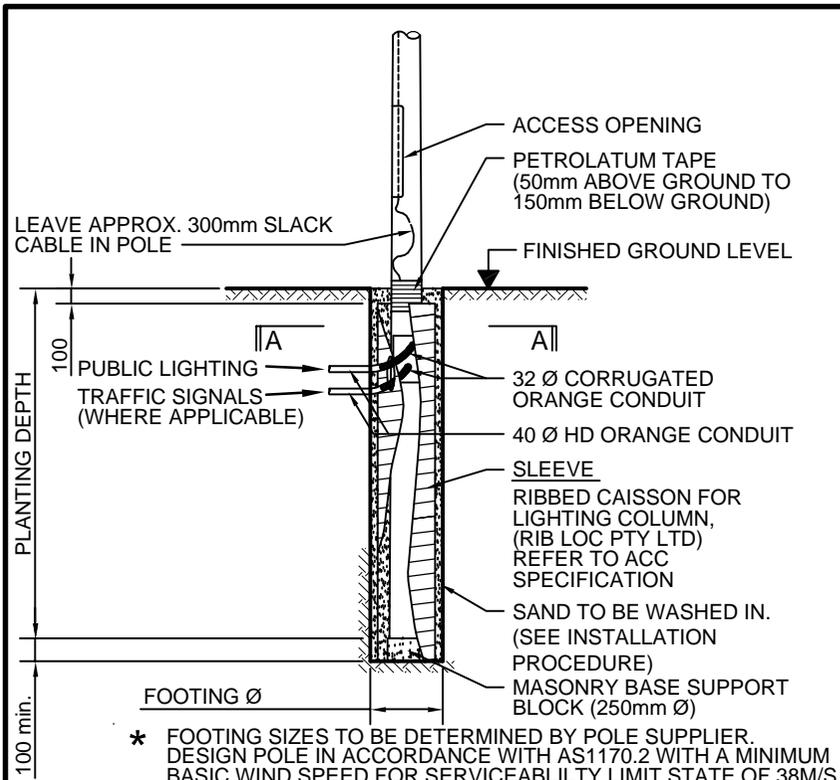
DESIGNED TL	CHECKED TL		CONSTRUCTION STANDARD Lighting and Electrical COLUMN OPTIONS	
DRAWN JR/JB/TL	CERTIFIED RS			
DATE 05/2001	SCALE N.T.S.			
DRWG No. C-ES-100-01				
© COPYRIGHT This document produced by City of Adelaide shall not copied without written consent.			STANDARD NUMBER	SHEET No.
			LT 010	01

CODE NO.	MOUNTING HEIGHT (metres)	FOOTING TYPE Ground or Flange	OUTREACH ARM		COLUMN TYPE	BANNER	TRAFFIC SIGNAL (lugs)	COLUMN STANDARD REFERENCE	COLUMN DRAWING REFERENCE
			(metres)	Single or Double					
10.5/G/2.0/S	10.5	G	2.0	S	RIGID			LT410-01	C-ES-103-01
10.5/G/2.0/S/B	10.5	G	2.0	S	RIGID	B		LT410-01	C-ES-103-01
10.5/G/2.0/S/T	10.5	G	2.0	S	RIGID		T	LT410-02	C-ES-103-02
10.5/F/2.0/S/T	10.5	F	2.0	S	IMPACT ABSORBING		T	LT410-02	C-ES-103-02
10.5/G/2.0/S/B/T	10.5	G	2.0	S	RIGID	B	T	LT410-01	C-ES-103-01
10.5/F/2.0/S/B/T	10.5	F	2.0	S	IMPACT ABSORBING	B	T	LT410-01	C-ES-103-01
10.5/G/3.0/S	10.5	G	3.0	S	RIGID			LT410-01	C-ES-103-01
10.5/G/3.0/S/B	10.5	G	3.0	S	RIGID	B		LT410-01	C-ES-103-01
10.5/G/3.0/S/T	10.5	G	3.0	S	RIGID		T	LT410-02	C-ES-103-02
10.5/F/3.0/S/T	10.5	F	3.0	S	IMPACT ABSORBING		T	LT410-02	C-ES-103-02
10.5/G/3.0/S/B/T	10.5	G	3.0	S	RIGID	B	T	LT410-01	C-ES-103-01
10.5/F/3.0/S/B/T	10.5	F	3.0	S	IMPACT ABSORBING	B	T	LT410-01	C-ES-103-01
10.5/G/4.5/S	10.5	G	4.5	S	RIGID			LT410-01	C-ES-103-01
10.5/G/4.5/S/B	10.5	G	4.5	S	RIGID	B		LT410-01	C-ES-103-01
10.5/G/4.5/S/T	10.5	G	4.5	S	RIGID		T	LT410-02	C-ES-103-02
10.5/F/4.5/S/T	10.5	F	4.5	S	IMPACT ABSORBING		T	LT410-02	C-ES-103-02
10.5/G/4.5/S/B/T	10.5	G	4.5	S	RIGID	B	T	LT410-01	C-ES-103-01
10.5/F/4.5/S/B/T	10.5	F	4.5	S	IMPACT ABSORBING	B	T	LT410-01	C-ES-103-01
10.5/F/2.0/D	10.5	F	2.0	D	IMPACT ABSORBING			LT421-01	C-ES-105-01
10.5/F/3.0/D	10.5	F	3.0	D	IMPACT ABSORBING			LT421-01	C-ES-105-01
10.5/F/4.5/D	10.5	F	4.5	D	IMPACT ABSORBING			LT421-01	C-ES-105-01



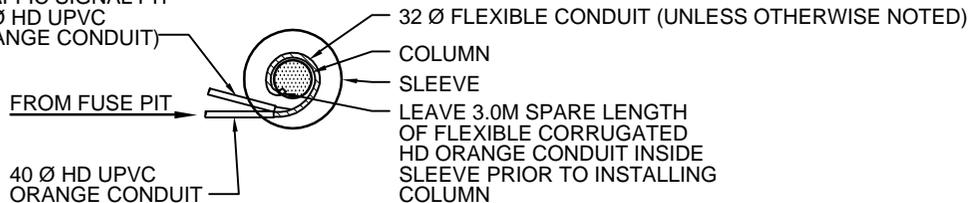
NOTE: FOR FOOTING DETAILS REFER STANDARD LT020-01 (Drawing No. C-ES-101-01).

DESIGNED TL	CHECKED TL		© COPYRIGHT This document produced by City of Adelaide shall not copied without written consent.	CONSTRUCTION STANDARD Lighting and Electrical COLUMN OPTIONS			
DRAWN JR/JB/TL	CERTIFIED RS						
DATE 05/2001	SCALE N.T.S.			STANDARD NUMBER	SHEET No.		
DRWG No. C-ES-100-02				LT 010	02		



IN-GROUND COLUMN FOOTING (TYPICAL)

(WHERE APPLICABLE FROM TRAFFIC SIGNAL PIT
40 Ø HD UPVC ORANGE CONDUIT)



SECTION A-A

ANTI-CORROSION COATING

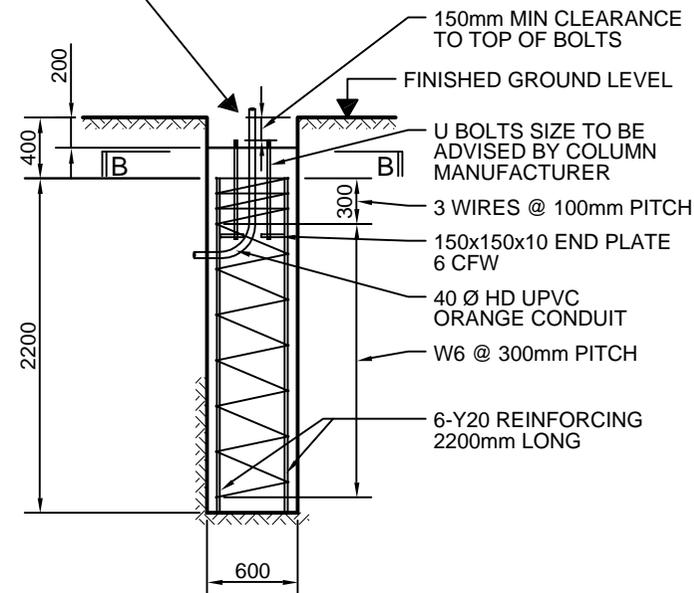
THE RAG BOLTS AND COLUMN/BASE PLATE (TOP & BOTTOM) SHALL BE PAINTED TO 100mm A.F.G.L. WITH 'INTERPLUS 356' (FROM INTERNATIONAL PROTECTIVE COATINGS, PREVIOUSLY TAUBMANS). SURFACE PREPARATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. (MINIMUM 250 MICRONS DRY FILM THICKNESS)

SAND SPECIFICATION

THE SAND TO BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE INSTRUCTIONS BELOW, AND BE NON-PLASTIC WITH 100% PASSING A 600 MICRON SIEVE.

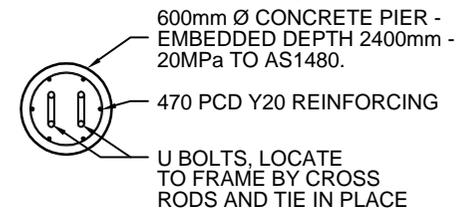
TYPICAL 'IN-GROUND' COLUMN INSTALLATION PROCEDURE

1. BORE HOLE PLUMB TO ACHIEVE 50mm (MIN) CLEARANCE BETWEEN SLEEVE & COLUMN.
2. SET SLEEVE INTO HOLE PLUMB, AND PROVIDE CABLE ENTRY IN APPROPRIATE LOCATION.
3. INSTALL MASONRY SUPPORT BLOCK.
4. INSTALL FLEXIBLE CORRUGATED CONDUIT(S) INTO SLEEVE.
5. PROGRESSIVELY WATER IN SPECIFIED SAND TYPE AROUND SLEEVE.
6. WRAP COLUMN WITH PETROLATUM TAPE.
7. LOWER COLUMN INTO SLEEVE AND FEED CONDUIT(S) PROGRESSIVELY INTO COLUMN.
8. POSITION COLUMN CENTRALLY, PLUMB AND PROGRESSIVELY WATER IN THE SPECIFIED SAND TYPE.



FLANGE MOUNTED COLUMN FOOTING (TYPICAL)

REFER TO STANDARD LT421-01 (Dwg C-ES-105-01)



SECTION B-B

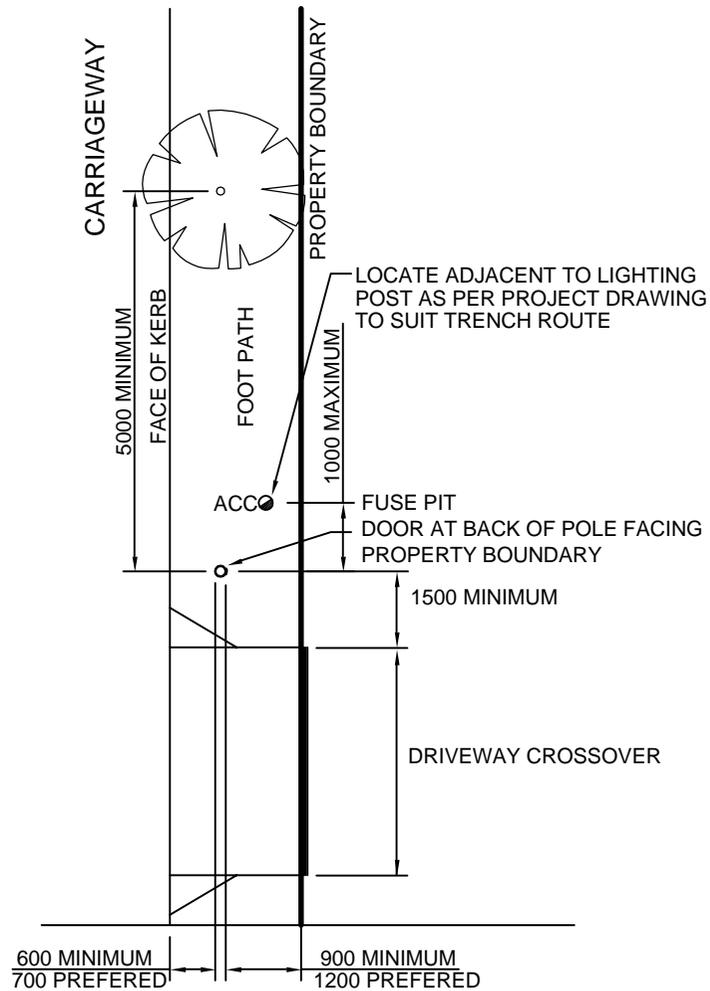
DESIGNED TL	CHECKED TL
DRAWN JR/JB	CERTIFIED RS
DATE 05/2001	
SCALE N.T.S.	
DRWG No. C-ES-101-01	

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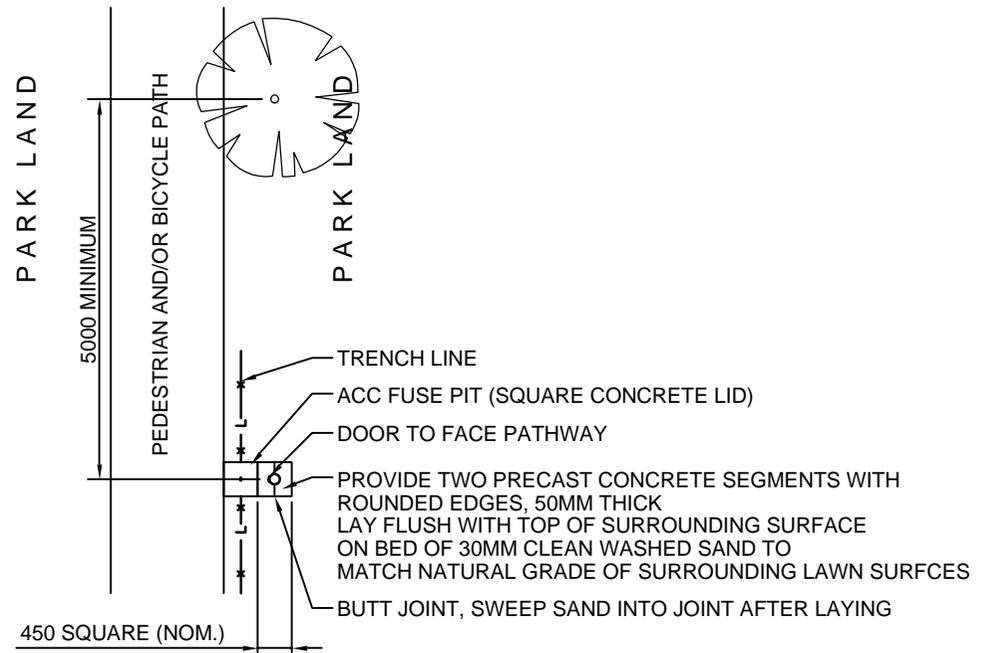
CONSTRUCTION STANDARD
Lighting and Electrical
LIGHTING / TRAFFIC COLUMNS
Footing Details



STANDARD NUMBER	SHEET No.
LT 020	01



LOCATION OF POLE IN FOOTPATH
PLAN



LOCATION OF POLE IN PARK LANDS
PLAN

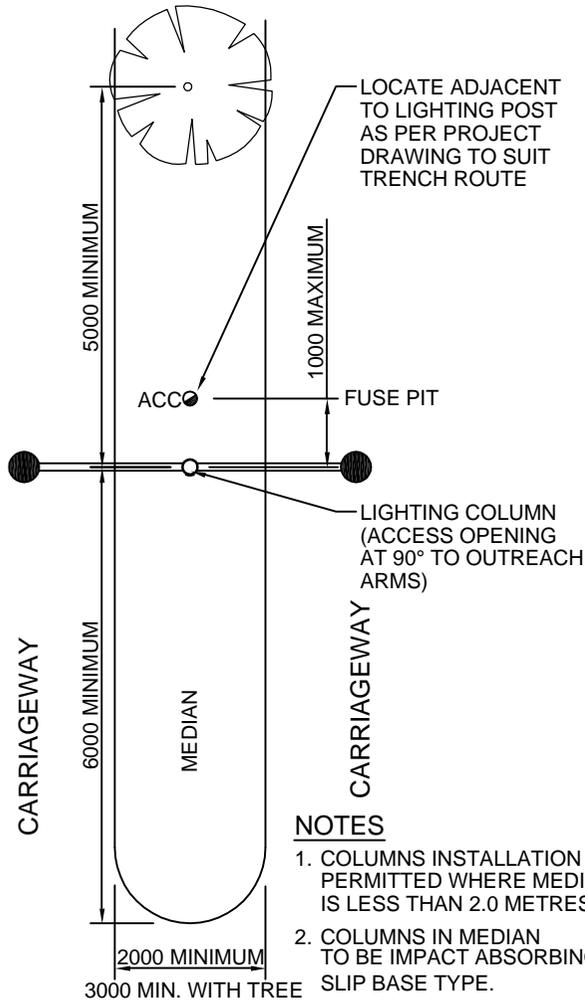
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DRAWN	JR/JB	CERTIFIED	RS
DATE	05/2001	SCALE	N.T.S.
DRWG No.	C-ES-120-01		

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CONSTRUCTION STANDARD
Lighting and Electrical
POST TOP
Location Details Typical

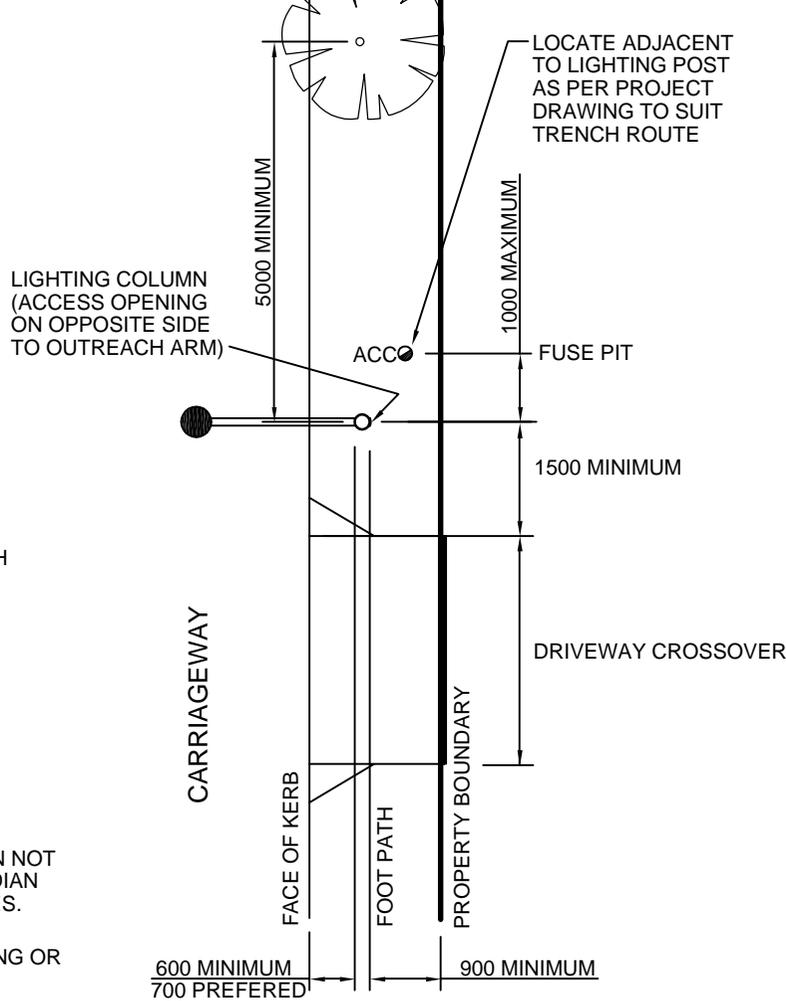


STANDARD NUMBER	SHEET No.
LT 030	01



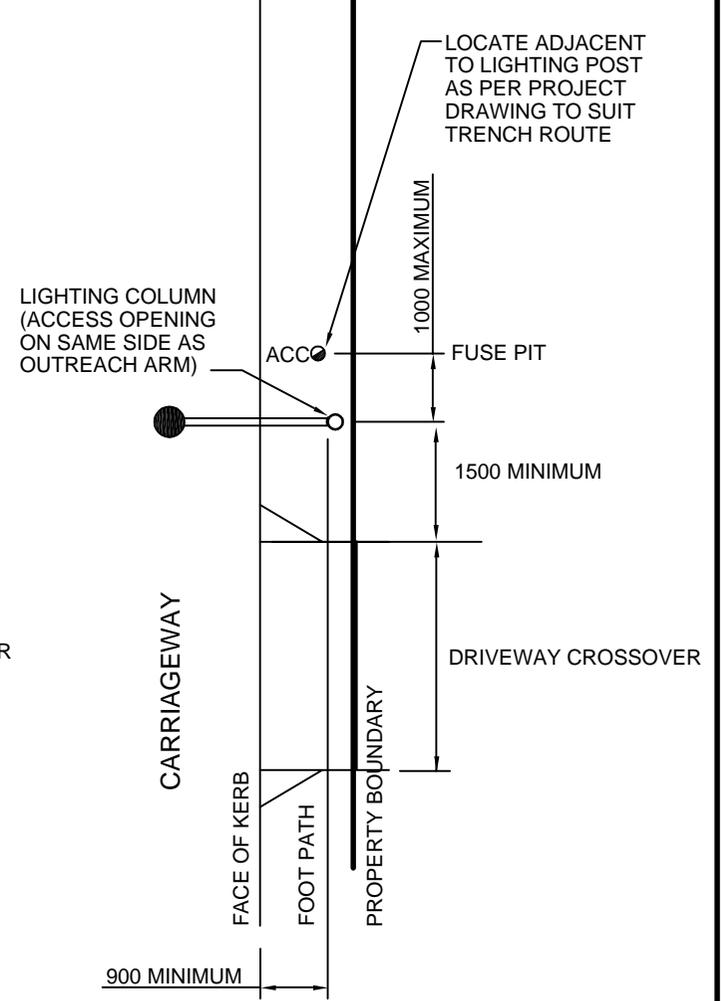
**LOCATION OF POLE
IN MEDIAN**

PLAN



**LOCATION OF POLE
IN TYPICAL FOOTPATH**

PLAN



**LOCATION OF POLE
IN NARROW FOOTPATH**

PLAN

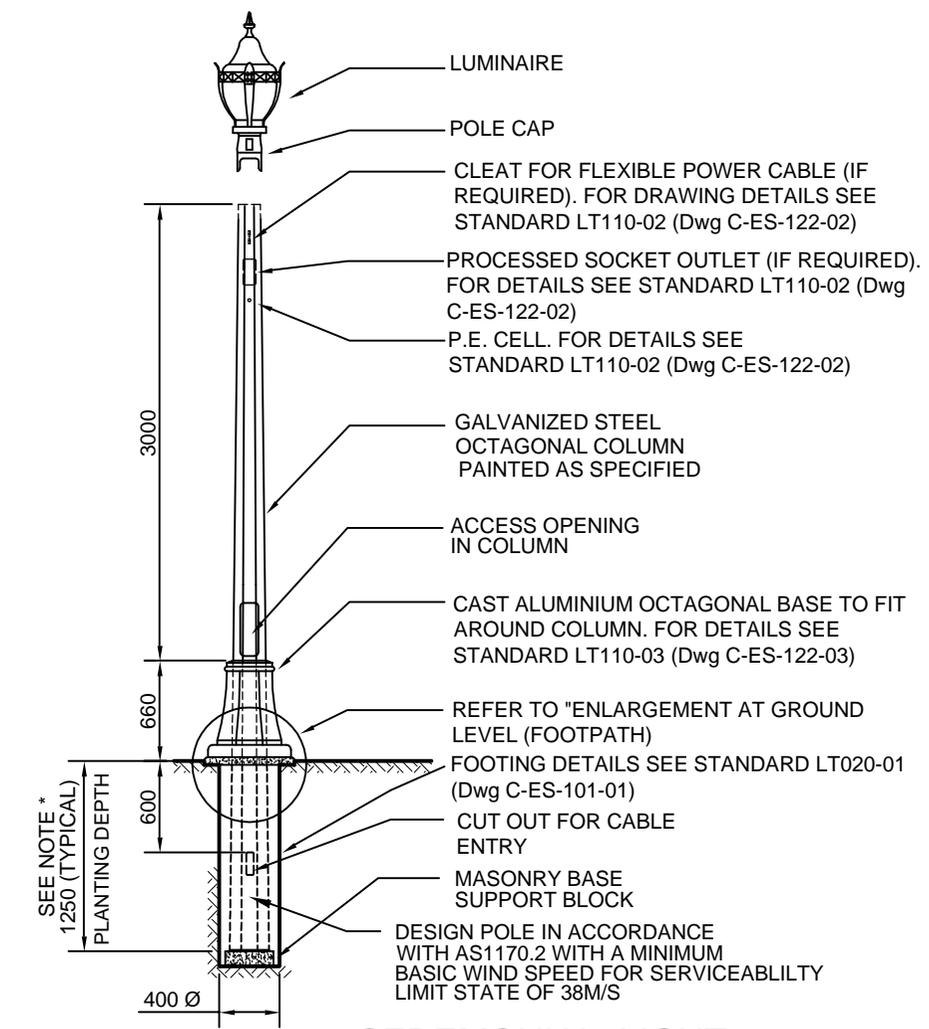
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DATE 05/2001	
SCALE N.T.S.	
DRWG No. C-ES-120-02	

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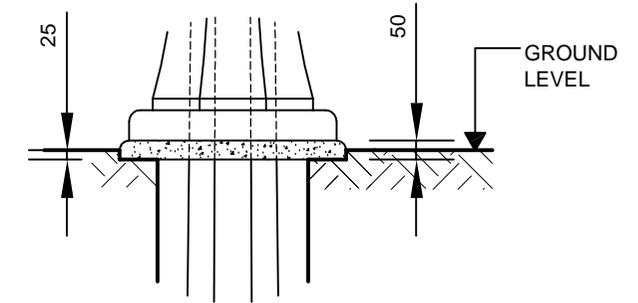
CONSTRUCTION STANDARD
Lighting and Electrical
STREET LIGHTING
Location Details Typical



STANDARD NUMBER	SHEET No.
LT 030	02



*NOTE DIMENSION TO BE NOTIFIED BY MANUFACTURER **CEREMONIAL LIGHT**



ENLARGEMENT AT FINISHED GROUND LEVEL

NOTE

1. COLUMN TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND ATTACHED ACC SPECIFICATION.
2. COLUMN SHALL BE HOT DIPPED GALVANIZED AND WET PAINTED IN ACCORDANCE WITH ATTACHED ACC SPECIFICATION.
3. PAINT FINISH - DULUX OYSTER REFER PAINTING SPECIFICATION FOR APPLICATION
4. POLE IDENTIFICATION LABEL REQUIREMENTS

CORPORATION OF THE CITY OF ADELAIDE MANUFACTURER'S NAME CONTRACT NUMBER MONTH/YEAR OF MANUFACTURE
--

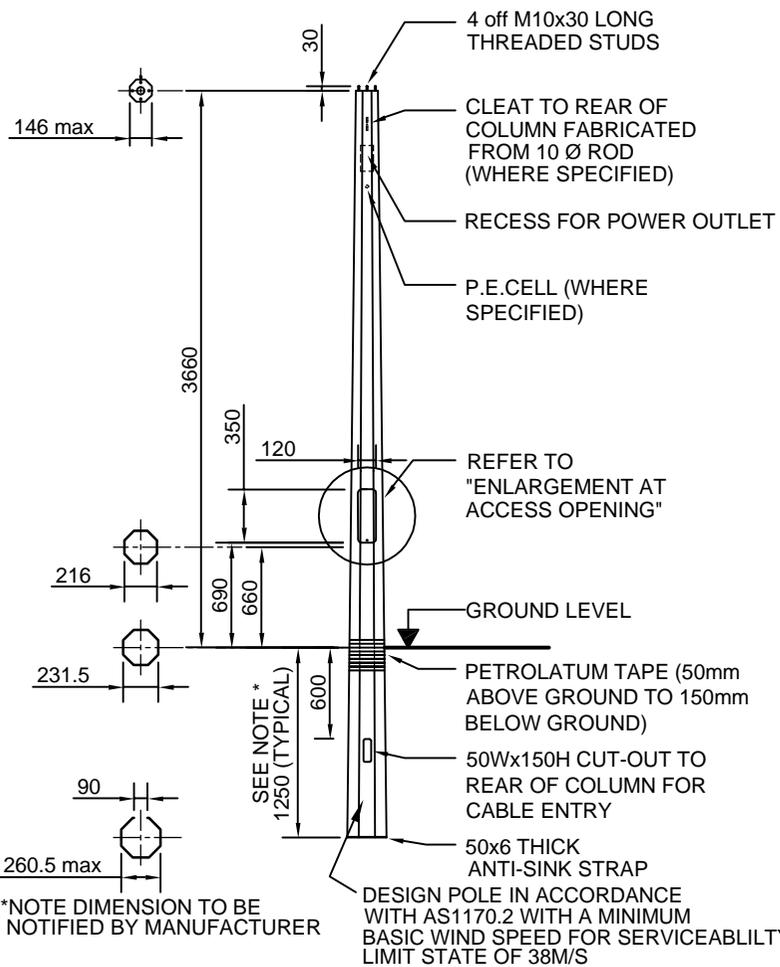
DESIGNED	TL	CHECKED	TL
DRAWN	JR/JB	CERTIFIED	RS
DATE	05/2001	SCALE	N.T.S.
DRWG No.	C-ES-122-01		

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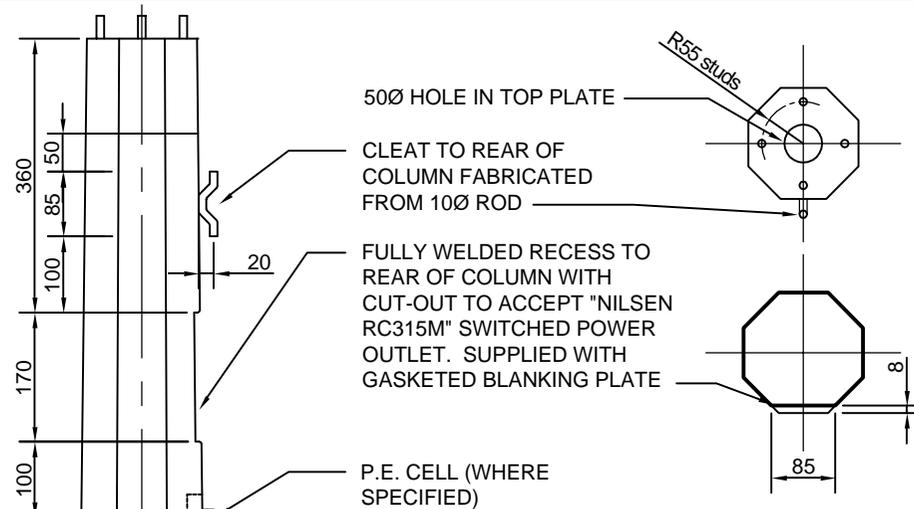
CONSTRUCTION STANDARD Lighting and Electrical 3.5M POST TOP Ceremonial Column	

STANDARD NUMBER	SHEET No.
LT 110	01

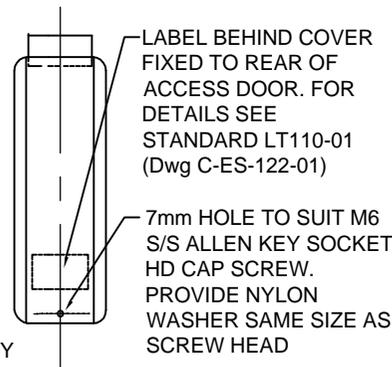




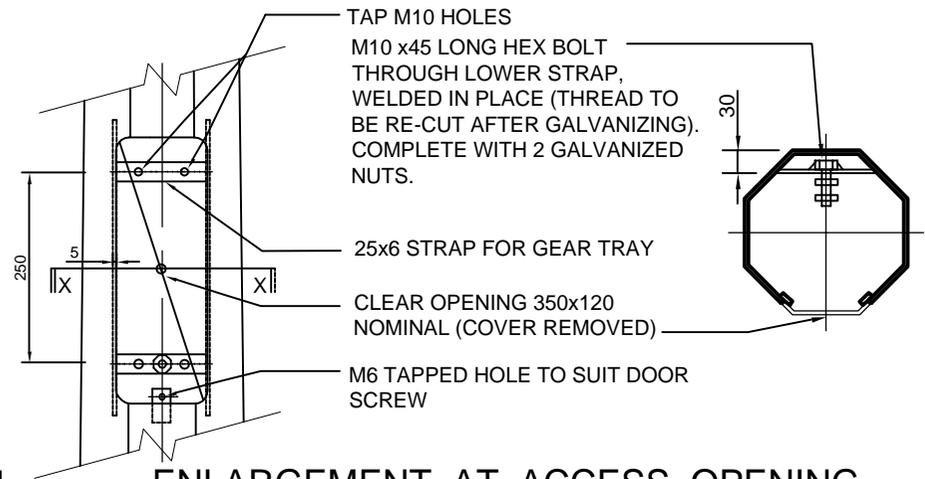
LIGHT COLUMN



CLEAT AND RECESS DETAILS



ACCESS COVER DETAIL



ENLARGEMENT AT ACCESS OPENING

DESIGNED TL	CHECKED TL
DRAWN JR/JB	CERTIFIED RS
DATE 05/2001	
SCALE N.T.S.	
DRWG No. C-ES-122-02	

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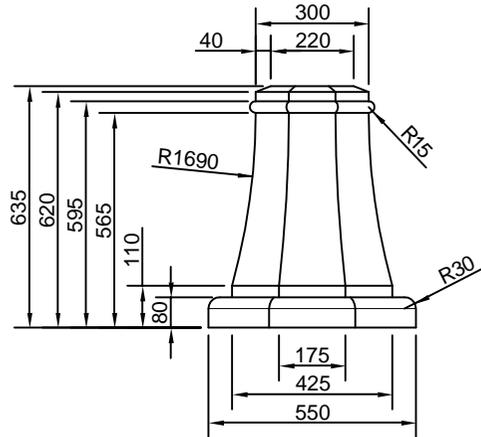
CONSTRUCTION STANDARD
Lighting and Electrical
3.5M POST TOP
Ceremonial Details



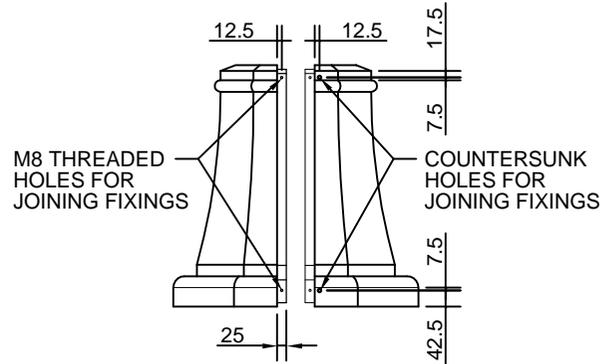
STANDARD NUMBER	SHEET No.
LT 110	02



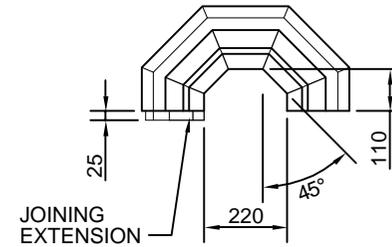
REFER TO STANDARD LT110-02 (Dwg. C-ES-122-02) FOR COLUMN DETAILS



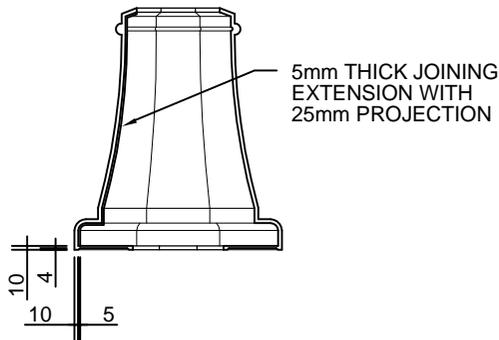
FRONT ELEVATION



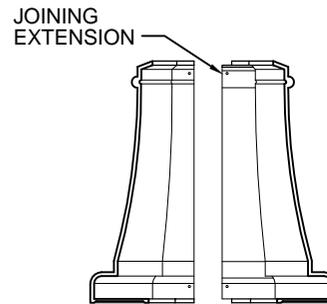
SIDE ELEVATION
(separated)



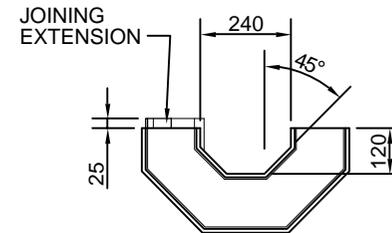
HALF TOP VIEW



INTERNAL ELEVATION



INTERNAL ELEVATION
(sides separated)



HALF BOTTOM VIEW

DESIGNED TL	CHECKED TL
DRAWN JR/JB	CERTIFIED RS
DATE 05/2001	
SCALE N.T.S.	
DRWG No. C-ES-122-03	

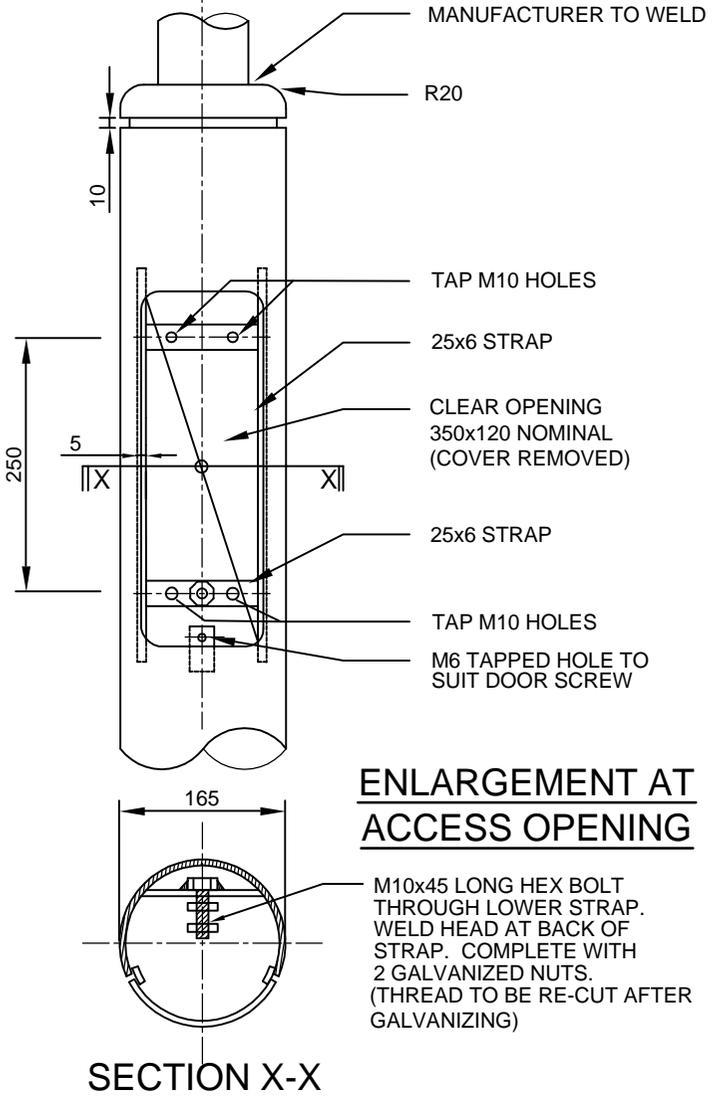
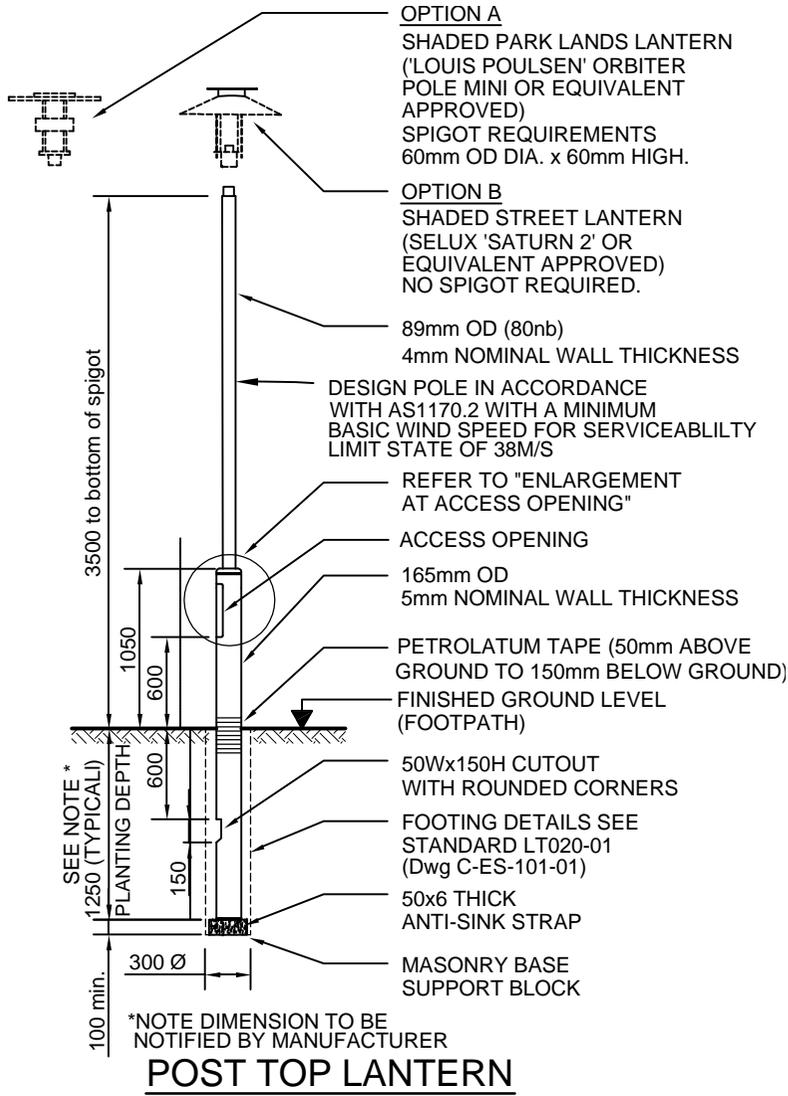


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CONSTRUCTION STANDARD
Lighting and Electrical
3.5M POST TOP
Ceremonial Base

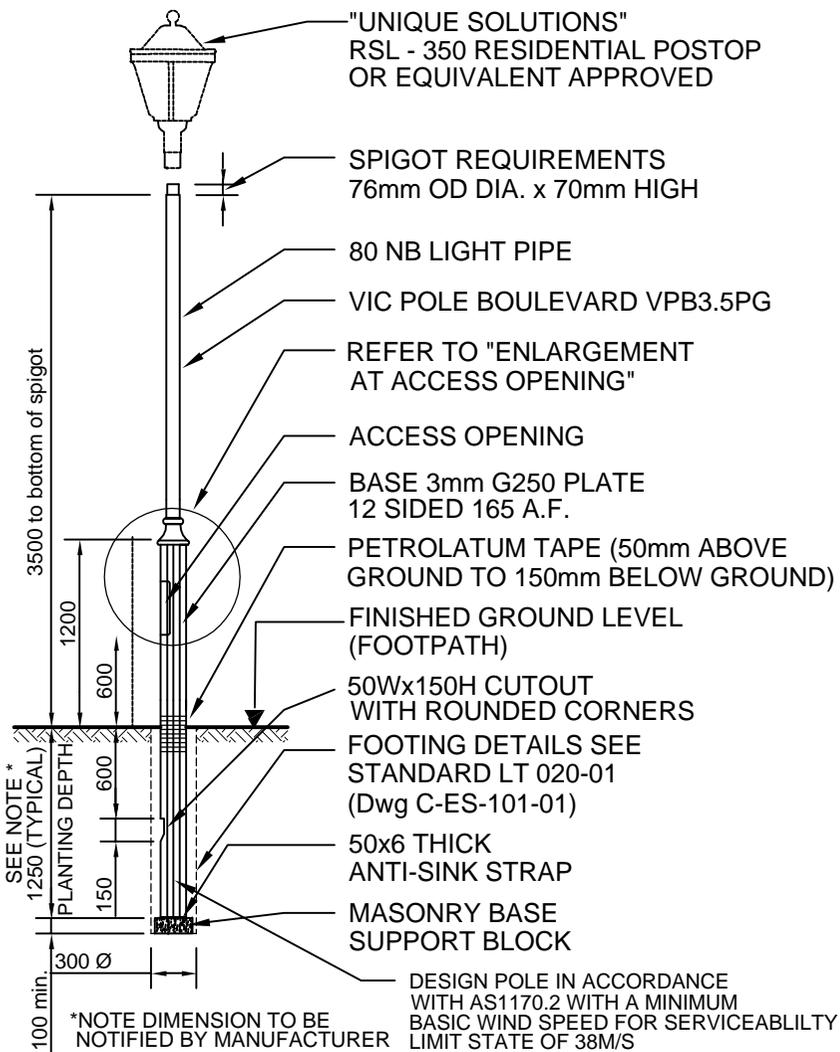


STANDARD NUMBER	SHEET No.
LT 110	03

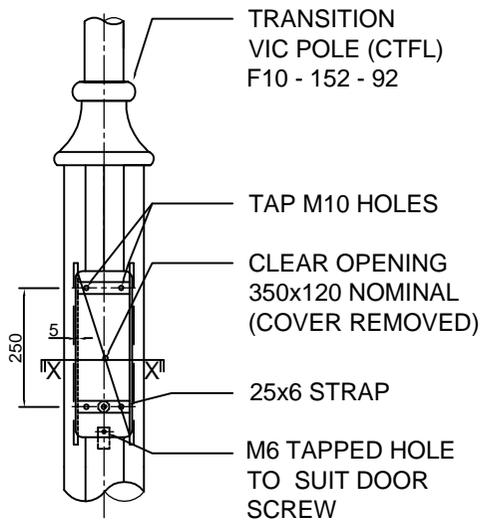


- NOTE:**
- FOR FOOTING DETAILS REFER TO STANDARD LT020-01 (Dwg C-ES-101-01).
 - COLUMN TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND ATTACHED ACC SPECIFICATION
 - COLUMN SHOULD BE HOT DIPPED GALVANIZED
 - PAINT FINISH
DULUX NOTREDAME GREY
REFER PAINTING SPECIFICATION FOR APPLICATION
 - LABEL REQUIREMENTS
- | |
|--|
| CORPORATION OF THE CITY OF ADELAIDE
MANUFACTURER'S NAME
CONTRACT NUMBER
MONTH/YEAR OF MANUFACTURE |
|--|

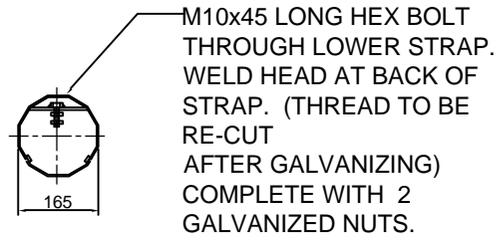
DESIGNED TL	CHECKED TL	© COPYRIGHT This document produced by City of Adelaide shall not copied without written consent.	CONSTRUCTION STANDARD Lighting and Electrical 3.5M POST TOP Streets/Park Lands	
DRAWN JR/JB	CERTIFIED RS			
DATE 04/2001	SCALE N.T.S.			
	DRWG No. C-ES-121-01			STANDARD NUMBER
				LT 120
				SHEET No.
				01



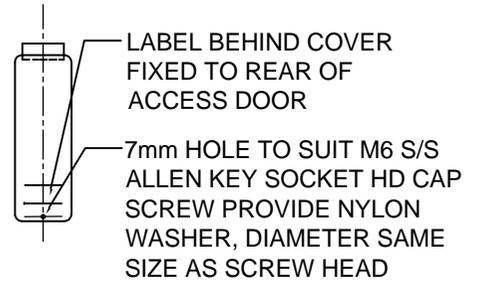
POST TOP PARK LANDS HERITAGE



ENLARGEMENT AT ACCESS OPENING



SECTION X-X



ACCESS COVER DETAIL

- NOTE:**
1. FOR FOOTING DETAILS REFER TO STANDARD LT020-01 (Dwg C-ES-101-01)
 2. PAINT FINISH
DULUX BLACK
REFER PAINT SPECIFICATION FOR APPLICATION
 3. LABEL REQUIREMENTS

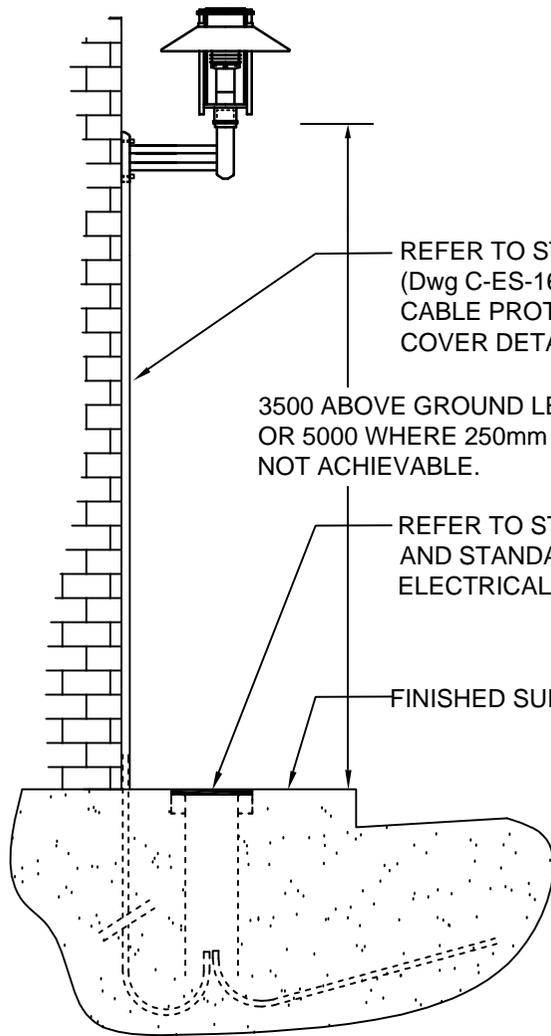
CORPORATION OF THE CITY OF ADELAIDE
MANUFACTURER'S NAME
CONTRACT NUMBER
MONTH/YEAR OF MANUFACTURE

DESIGNED TL	CHECKED TL
DRAWN JB	CERTIFIED RS
DATE 04-2001	
SCALE N.T.S.	
DRWG No. C-ES-123-01	

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CONSTRUCTION STANDARD
Lighting and Electrical
3.5M POST TOP
Heritage

LT 130	01

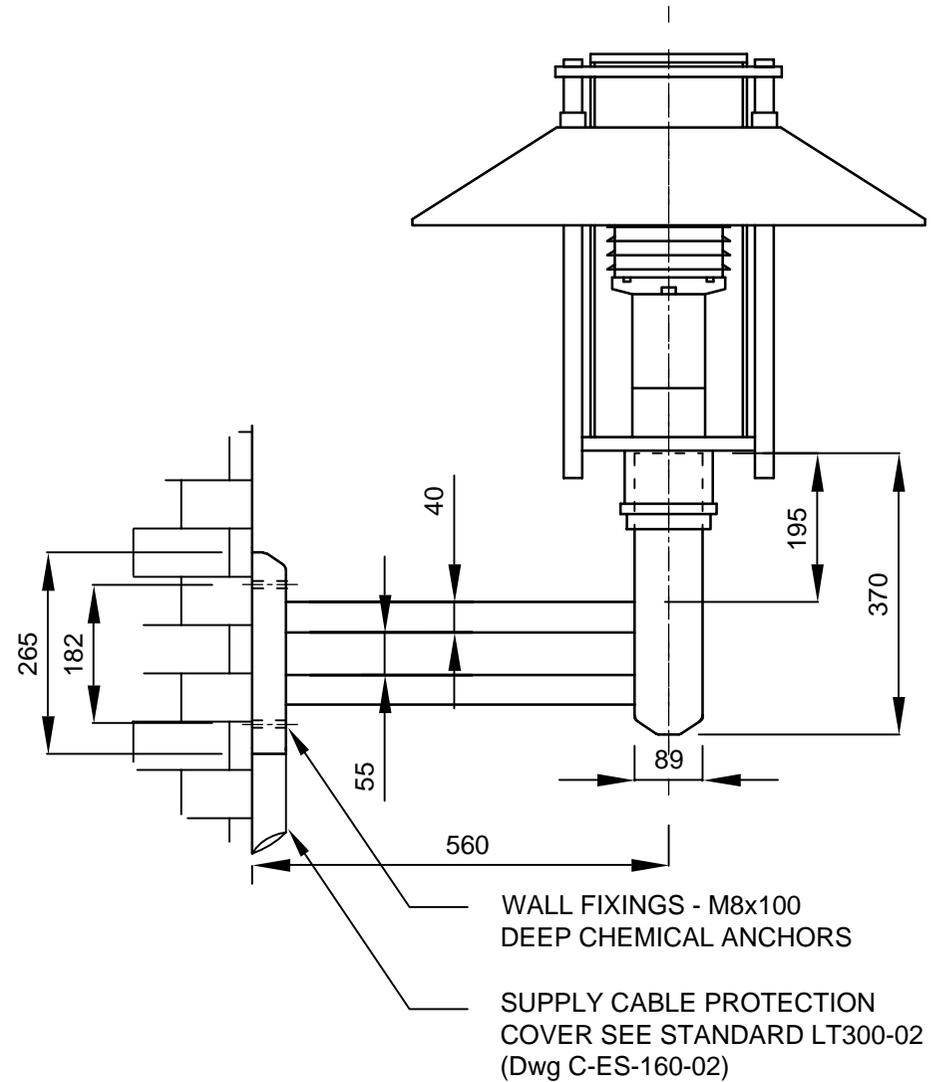


REFER TO STANDARD LT221-02
(Dwg C-ES-160-02) FOR SUPPLY
CABLE PROTECTION
COVER DETAILS

3500 ABOVE GROUND LEVEL TYPICAL
OR 5000 WHERE 250mm CLEARANCE
NOT ACHIEVABLE.

REFER TO STANDARD LT300-01 (Dwg C-ES-133-01)
AND STANDARD LT300-02 (Dwg C-ES-133-02) FOR
ELECTRICAL SUPPLY DETAILS

FINISHED SURFACE



WALL FIXINGS - M8x100
DEEP CHEMICAL ANCHORS

SUPPLY CABLE PROTECTION
COVER SEE STANDARD LT300-02
(Dwg C-ES-160-02)

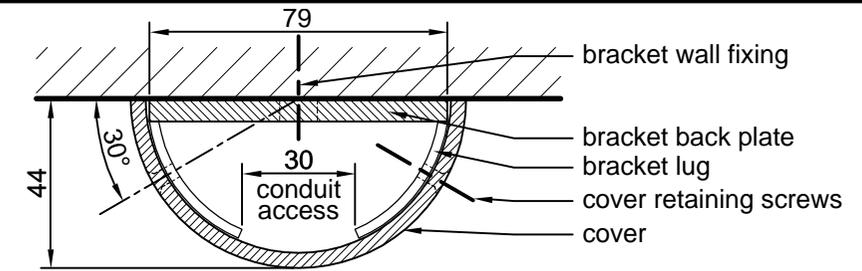
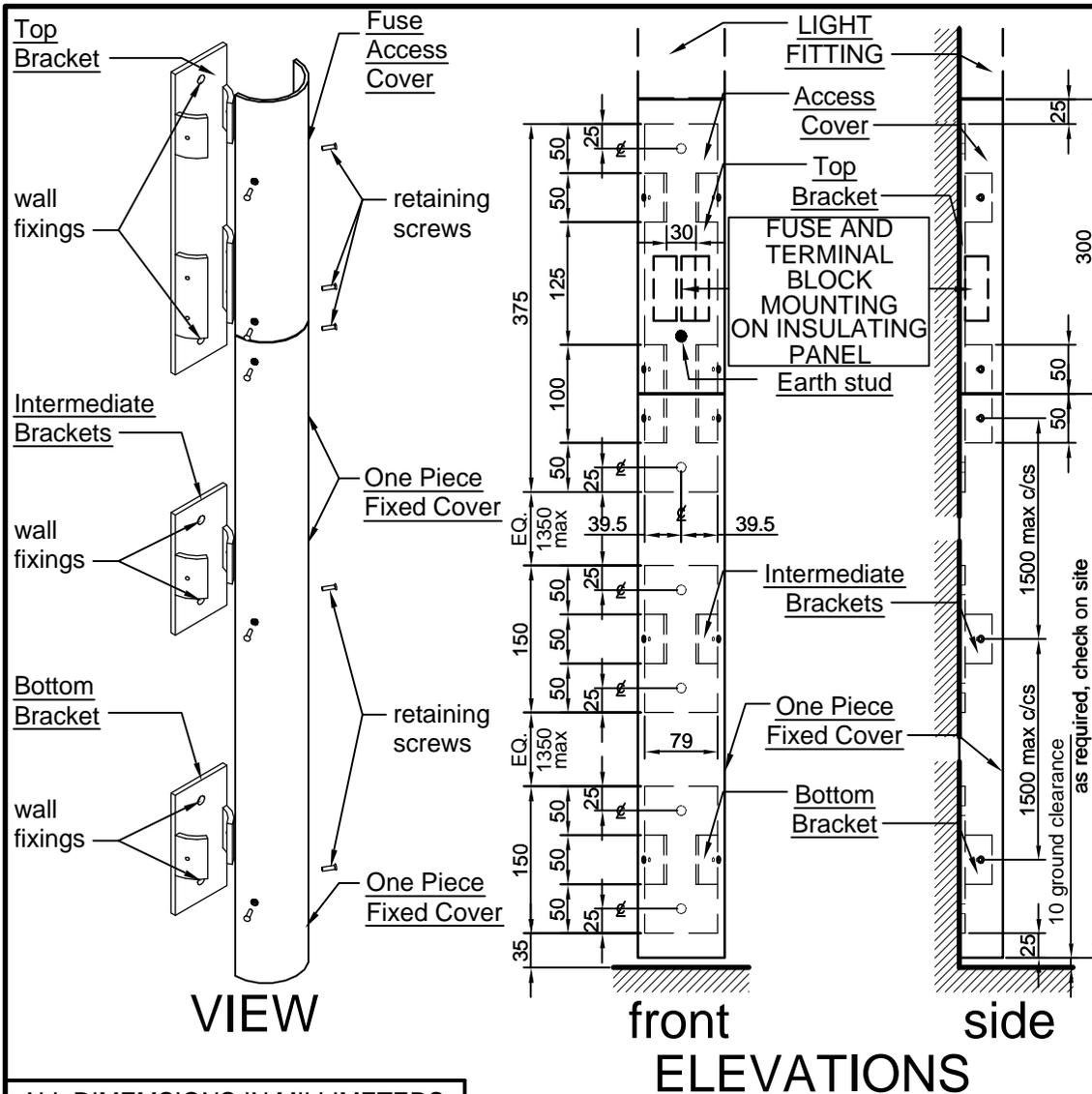
DESIGNED	TL	CHECKED	TL
DRAWN	JB	CERTIFIED	RS
		DATE	04/2001
		SCALE	N.T.S.
		DRWG No.	C-ES-160-01

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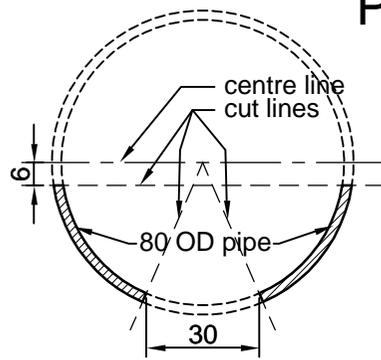
CONSTRUCTION STANDARD
Lighting and Electrical
WALL MOUNTED



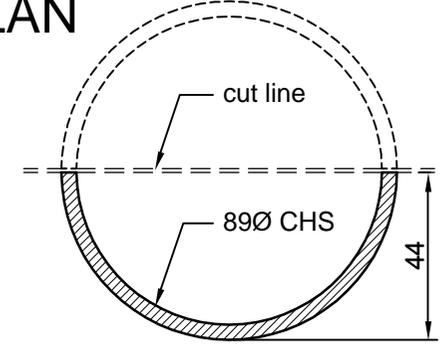
STANDARD NUMBER	SHEET No.
LT 221	01



PLAN



bracket lugs



cover

COMPONENTS

- Top Bracket - 79 x 6 x 375 plate, with 50 deep lugs and 100 deep lugs. Bracket drilled for wall fixing bolts, Galvanised finish.
- Intermediate and Bottom Brackets - 79 x 6 x 150 plate, with 50 deep lugs. Bracket drilled for wall fixing bolts. Galvanised finish.
- Bracket Lugs - Fabricated from 80 OD pipe, welded to bracket plate, to suit close fit to cover. Drilled and tapped for M4 cover stainless steel retaining screws. Galvanised finish.
- Wall Fixings - M8 x 100 deep chemical anchors.
- Cover - Fabricated from 89Ø CHS (4 wall thickness), cut in half, drilled and countersunk for M4 countersunk stainless steel cover retaining screws. Finished to match light fitting.

ALL DIMENSIONS IN MILLIMETERS.

DESIGNED PR/TL	CHECKED TL
DRAWN JR/JB	CERTIFIED RS
DATE 05/2001	
SCALE N.T.S.	
DRWG No. C-ES-160-02	

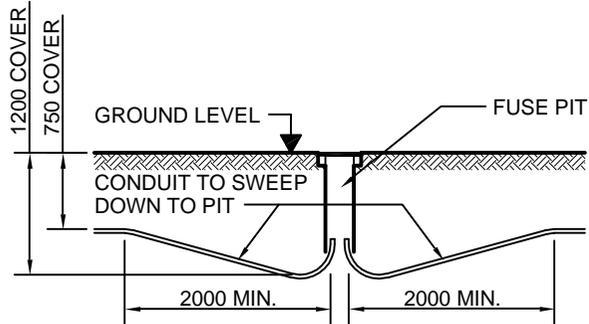
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CONSTRUCTION STANDARD

Lighting and Electrical
WALL MOUNTED
Cable Protection



STANDARD NUMBER	SHEET No.
LT 221	02



CONDUIT ROUTE IN FOOTPATH

ITEM NO.	STOCK NO.	DESCRIPTION	SUPPLIER
①	RA 5473	SECURING BOLTS FOR METAL COVER	ETSA
②		UNDERGROUND ELECTRICAL ENCLOSURE	
③		UNDERGROUND ELECTRICAL ENCLOSURE COVER	
④	RA 5487	225 Ø NOM. FIBRE CEMENT SLEEVE	ETSA
⑤	RA 5476	METAL LID FOR 300 Ø SLEEVE	ETSA

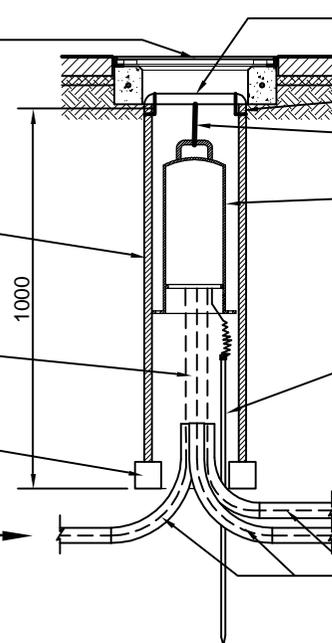
③ ACC UNDERGROUND ELECTRICAL ENCLOSURE COVER REFER TO STANDARD LT 300-01 (DWG C-ES-133-01)

④ 225 Ø NOM. ETSA TYPE FIBRE CEMENT SLEEVE

PROVIDE APPROX. 1.0M SLACK CABLE

CONCRETE BLOCKS OR 100mm QUARRY RUBBLE TO SUPPORT SLEEVE

FROM ACC PUBLIC LIGHTING OR ETSA UTILITIES SERVICE POINT (AS APPROPRIATE).



⑤ METAL LID FOR 300 SLEEVE. 'ETSA' LETTERING TO BE REMOVED.

① ETSA TYPE SECURING BOLTS

FIX CHAIN/WIRE TO SUSPEND UNDERGROUND ELECTRICAL ENCLOSURE 100mm BELOW METAL LID

② ACC UNDERGROUND ELECTRICAL ENCLOSURE REFER TO STANDARD LT 310-01 OR 02 (DWG C-ES-133-02 OR 03)

16 Ø x 1300 LONG STAINLESS STEEL EARTH STAKE. SEAL CONNECTION WITH 'DENSO' TAPE.

TO ADJACENT LIGHT POLE TO NEXT FUSE PIT (IF APPROPRIATE)

40 Ø ELECTRICAL CONDUITS (PROVIDE 90° SWEEP BENDS)

SECTION

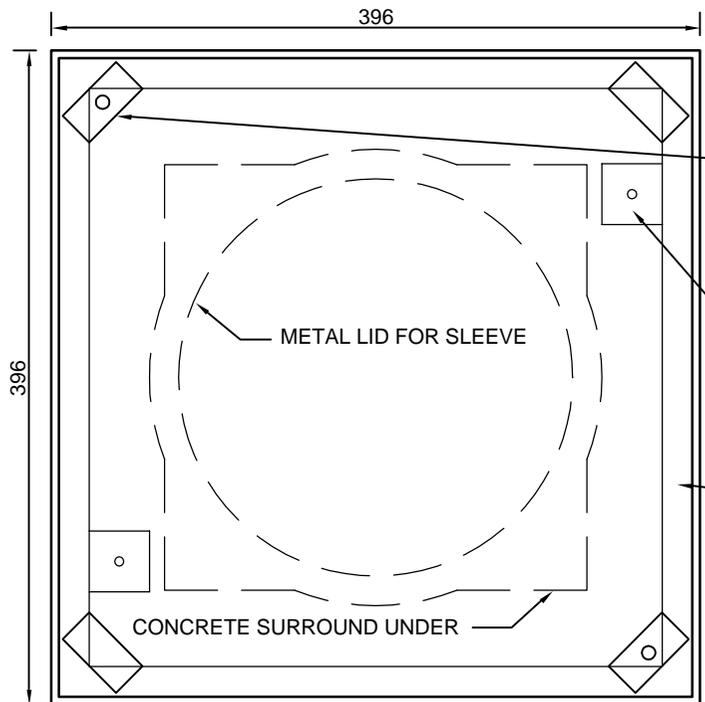
DESIGNED TL	CHECKED TL
DRAWN TL/BB/JB	CERTIFIED RS
DATE 01/2002	
SCALE N.T.S.	
DRWG No. C-ES-133-00	

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CONSTRUCTION STANDARD
Lighting and Electrical
UNDERGROUND ELECTRICAL ENCLOSURE
Pit

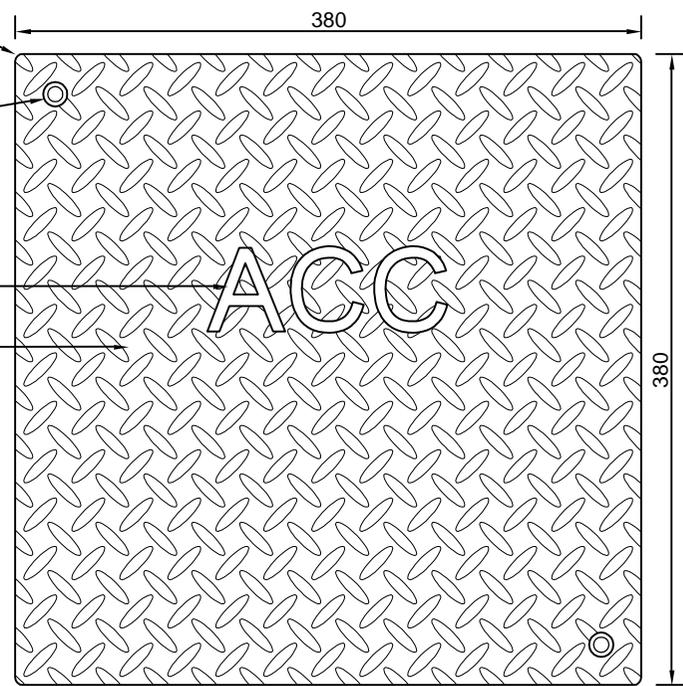


STANDARD NUMBER	SHEET No.
LT 300	00

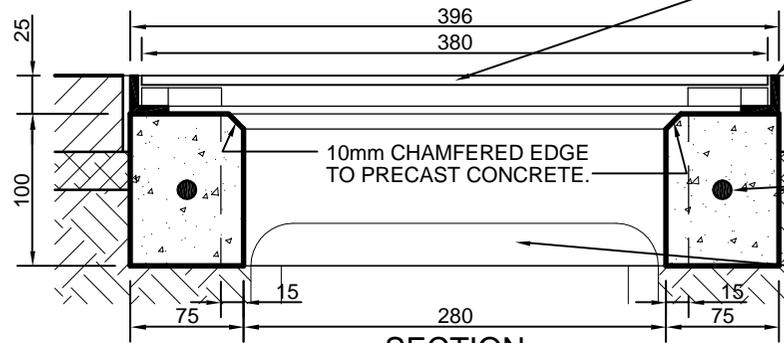


PLAN - FRAME

- 5mm RADIUS CORNER.
- COUNTERSUNK HOLES IN OPPOSITE CORNERS FOR 10 Ø BRASS COUNTERSUNK SLOTTED HEAD SCREWS.
- 4 no. 50 x 25 x 12 MILD STEEL SPACER BLOCKS WELDED TO ANGLE. (2 no. DRILLED AND TAPPED FOR 10Ø SCREWS).
- 55mm HIGH LASER CUT LETTERING. (1mm DEPTH).
- 6mm MILD STEEL CHEQUER PLATE COVER.
- 2 no. 40 x 40 x 5 MILD STEEL PLATES WELDED TO ANGLE. DRILL FOR 6mm 'DYNABOLT' FIXING TO PLINTH.
- 25 x 25 x 5 MILD STEEL ANGLE PERIMETER FRAME.



PLAN - COVER



SECTION

- COVER.
- FRAME.
- GROUND LEVEL.
- PAVING.
- PAVING BED.
- 100 x 75 PRECAST CONCRETE PLINTH/SURROUND TO PIT, REINFORCED WITH 1 Y12 BAR CENTRALLY.
- METAL LID FOR SLEEVE.
- REFER "BACK FILLING OF ROADWAY TRENCH" IN THE ACC "SPECIFICATION FOR EXCAVATION WORK IN ROADS, FOOTPATHS AND PARK LANDS".

NOTE

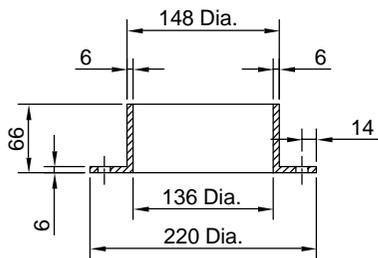
1. ALL STEEL WORK TO BE HOT DIP GALVANISED AFTER FABRICATION
2. ALL SCREW THREADS TO BE SUITABLY LUBRICATED.

DESIGNED	TL	CHECKED	TL
DRAWN	JR/JB	CERTIFIED	RS
DATE	05/2001	SCALE	N.T.S.
DRWG No.	C-ES-133-01		

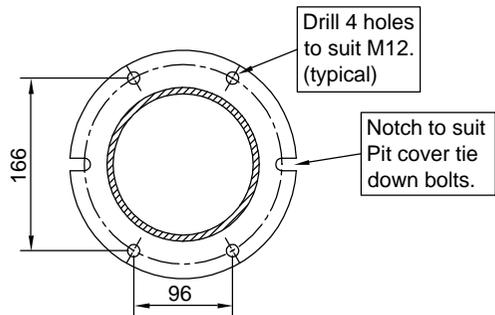
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CONSTRUCTION STANDARD
Lighting and Electrical
UNDERGROUND ELECTRICAL ENCLOSURE
Cover

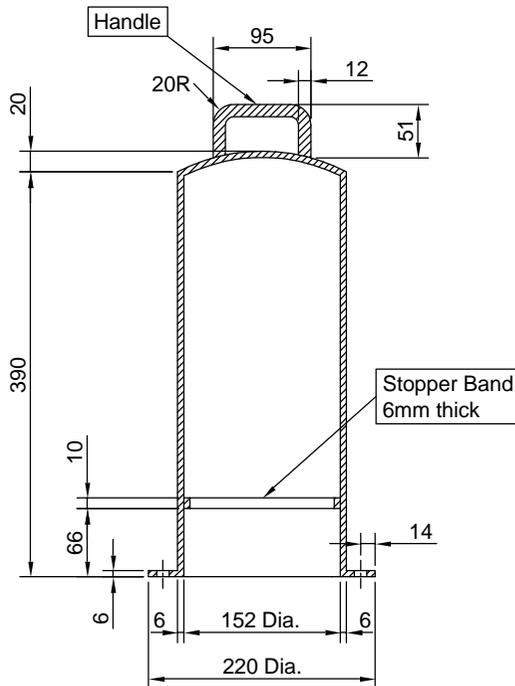
STANDARD NUMBER	SHEET No.
LT 300	01



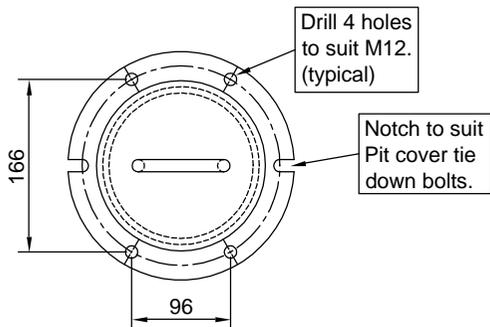
SIDE VIEW



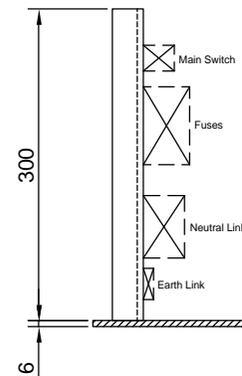
PLAN BASE



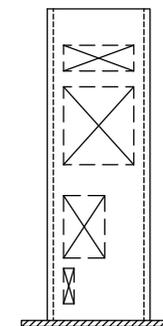
SIDE VIEW



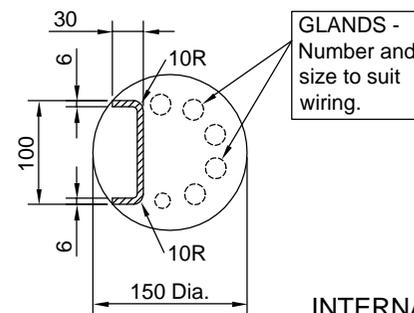
PLAN CONTAINER



SIDE VIEW



FRONT VIEW



PLAN INTERNAL BOARD

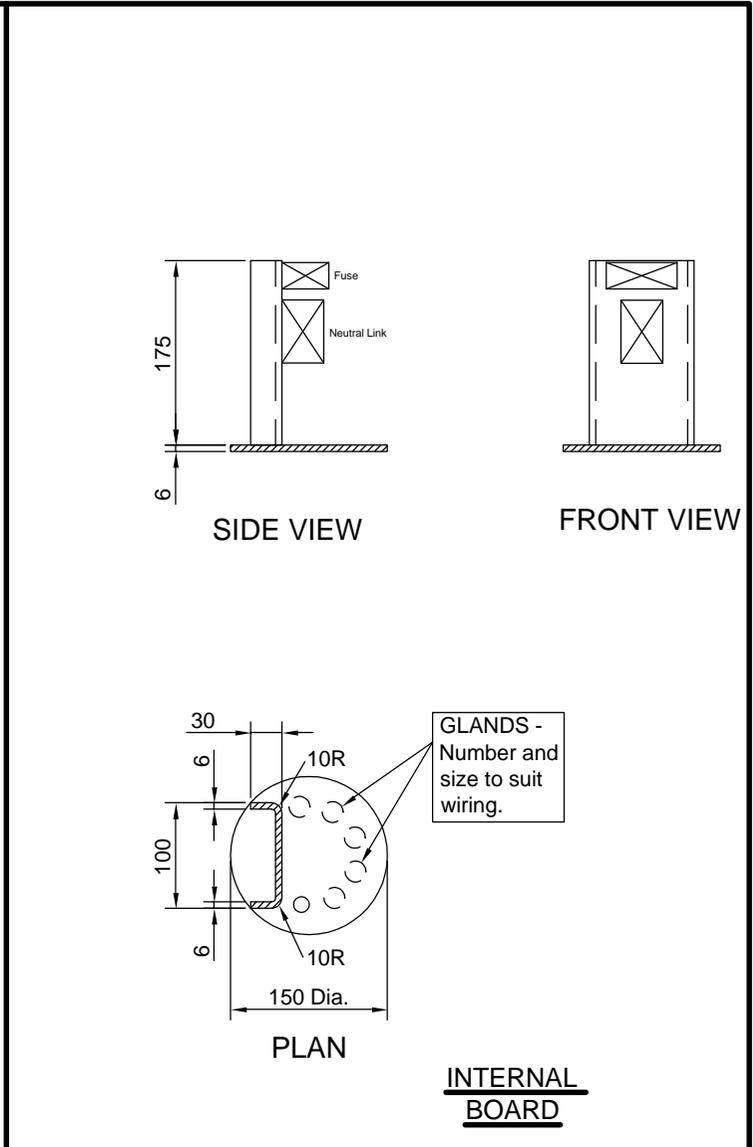
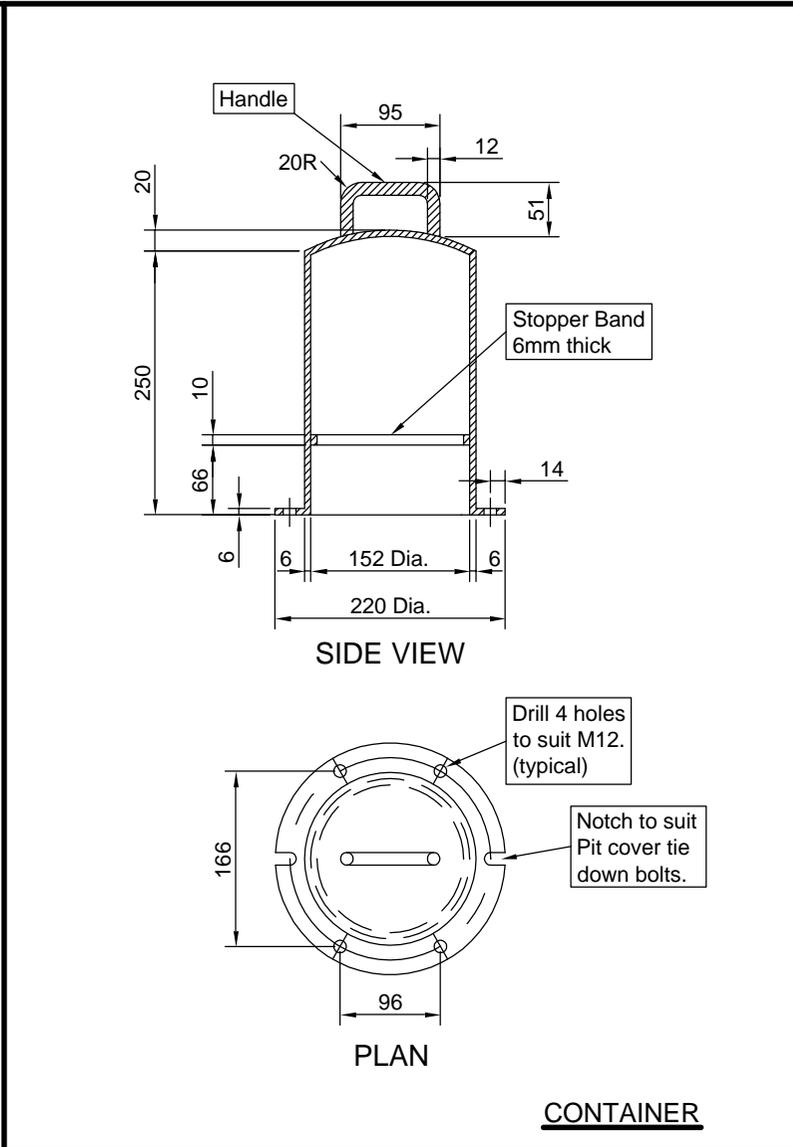
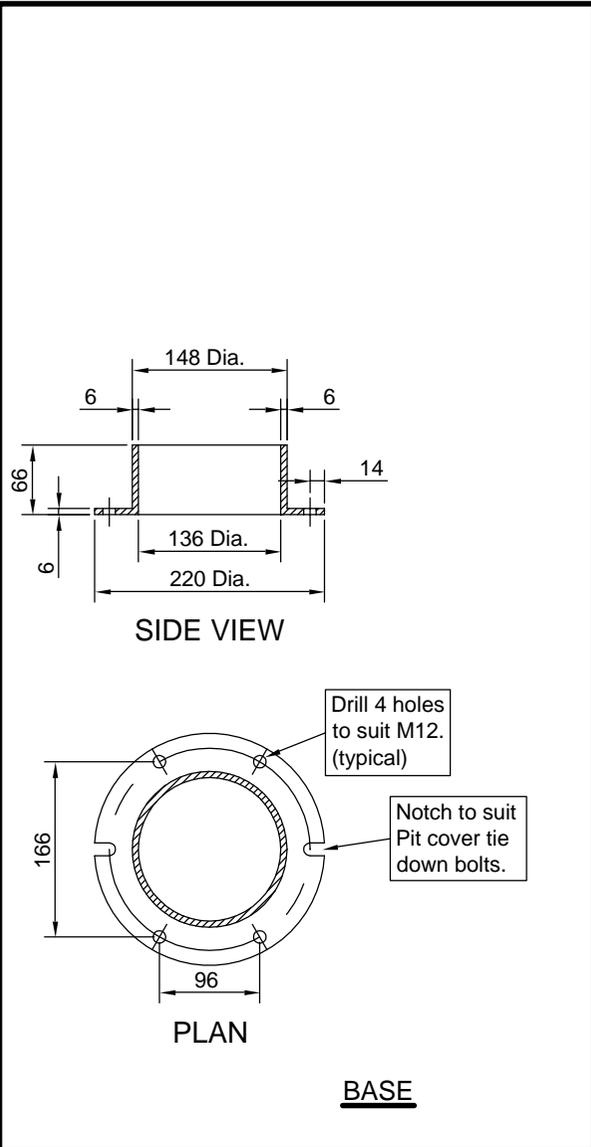
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DATE 01/2002	
SCALE N.T.S.	
DRWG No. C-ES-133-02	

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CONSTRUCTION STANDARD
Lighting and Electrical
UNDERGROUND ELECTRICAL ENCLOSURE
TYPE 1



STANDARD NUMBER	SHEET No.
LT 310	01



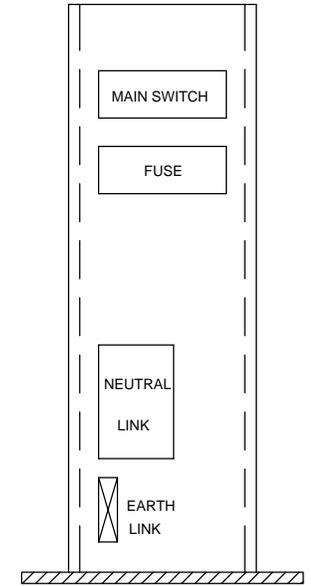
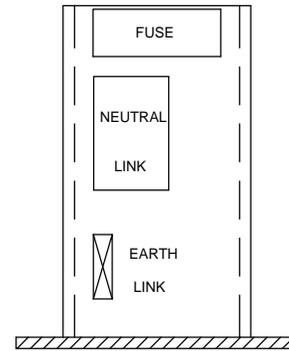
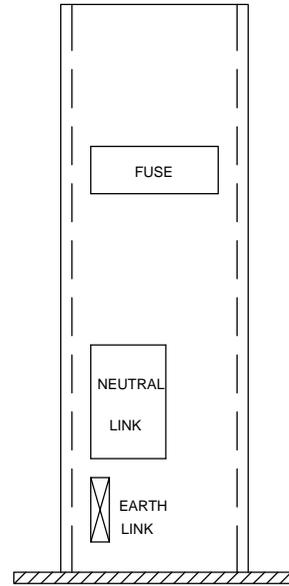
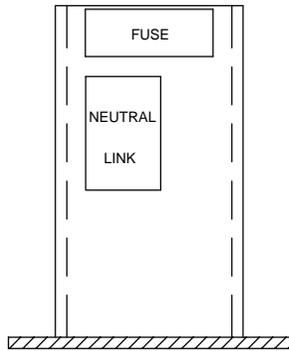
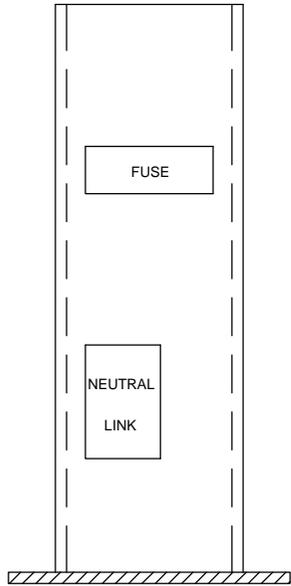
DESIGNED	TL	CHECKED	TL
DRAWN	TL/BB/JB	CERTIFIED	RS
DATE	01/2002	SCALE	N.T.S.
DRWG No.	C-ES-133-03		

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CONSTRUCTION STANDARD
Lighting and Electrical
UNDERGROUND ELECTRICAL ENCLOSURE
TYPE 2

STANDARD NUMBER SHEET No.

LT 310 02



ACC ADAPTABLE FUSE ENCLOSURE

SEE DRAWING LT700 SHEET 01

ACC FUSE PIT

SEE DRAWING LT700 SHEET 02

ACC SWITCHBOARD

SEE DRAWING LT700 SHEET 02

DESIGNED TL	CHECKED TL
DRAWN JB/BB	CERTIFIED RS
DATE 01/2002	
SCALE N.T.S.	
DRWG No. C-ES-133-04	



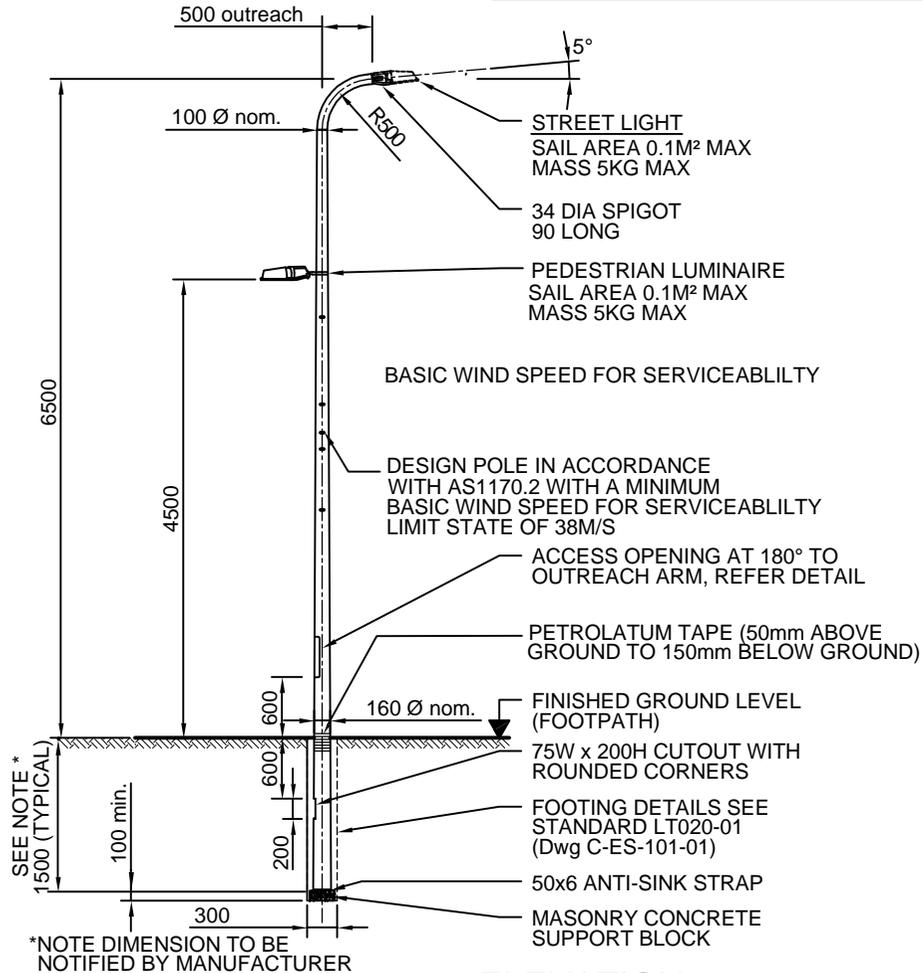
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CONSTRUCTION STANDARD
Lighting and Electrical
UNDERGROUND ELECTRICAL ENCLOSURE
INTERNAL BOARD OPTIONS

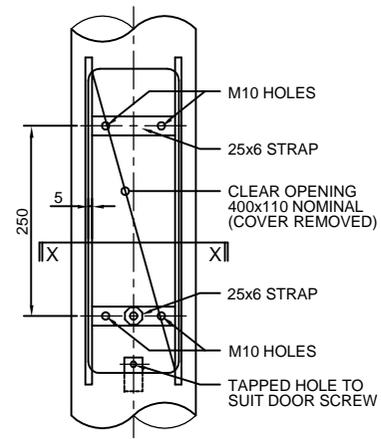


STANDARD NUMBER	SHEET No.
LT 310	03

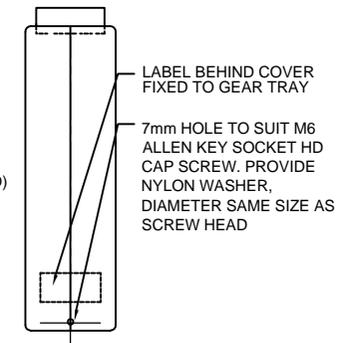
FOR CODE REFERENCES, OPTIONS, VARIABLE DIMENSIONS AND GENERAL INFORMATION, SEE STANDARD LT010-01 (Dwg C-ES-100-01)



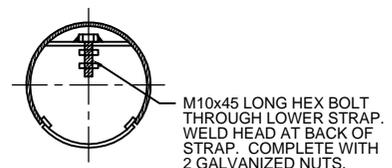
ELEVATION



ENLARGEMENT AT ACCESS OPENING



ACCESS COVER DETAIL



SECTION X-X

NOTE

1. COLUMN TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND ATTACHED ACC SPECIFICATION.
2. COLUMN SHALL BE HOT DIPPED GALVANISED
3. FOR FOOTING DETAILS REFER TO STANDARD LT020-01 (Dwg C-ES-101-01)
4. LABEL REQUIREMENTS

CORPORATION OF THE CITY OF ADELAIDE
MANUFACTURER'S NAME
CONTRACT NUMBER
MONTH/YEAR OF MANUFACTURE

DESIGNED	TL	CHECKED	TL
DRAWN	JR/JB	CERTIFIED	RS
DATE	05/2001	SCALE	N.T.S.
DRWG No.	C-ES-102-01		

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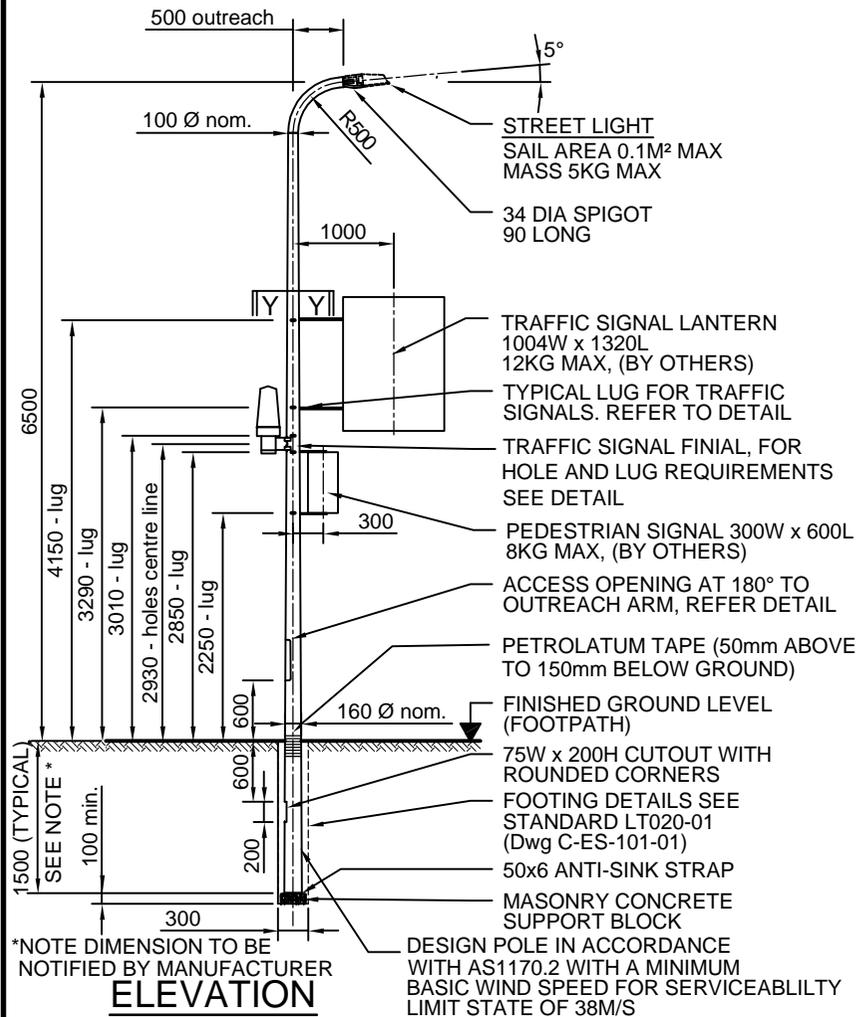
<p>CONSTRUCTION STANDARD</p> <p>Lighting and Electrical</p> <p>6.5 M COLUMN</p>	



STANDARD NUMBER	SHEET No.
LT 400	01

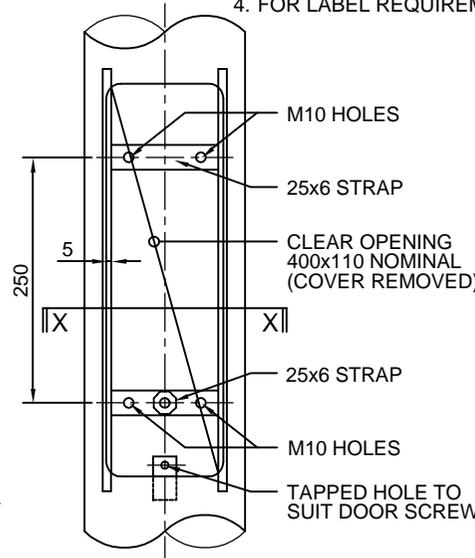


FOR CODE REFERENCES, OPTIONS, VARIABLE DIMENSIONS AND GENERAL INFORMATION, SEE STANDARD LT010-01 (Dwg C-ES-100-01)



NOTE

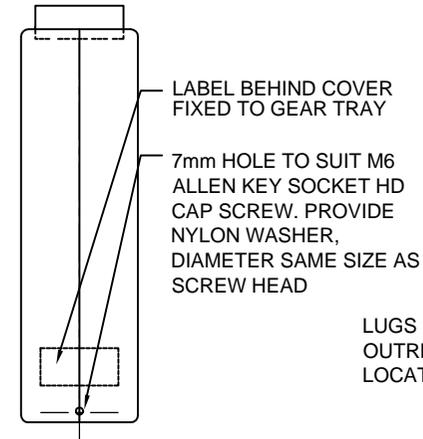
1. COLUMN TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND ATTACHED ACC SPECIFICATION
2. COLUMN SHALL BE HOT DIPPED GALVANISED
3. FOR FOOTING DETAILS REFER TO STANDARD LT020-01 (Dwg C-ES-101-01)
4. FOR LABEL REQUIREMENTS REFER TO STANDARD LT400-01 (Dwg C-ES-102-01)



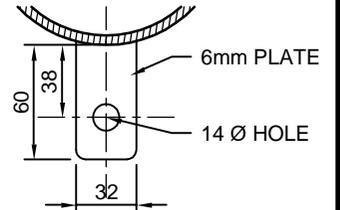
ENLARGEMENT AT ACCESS OPENING



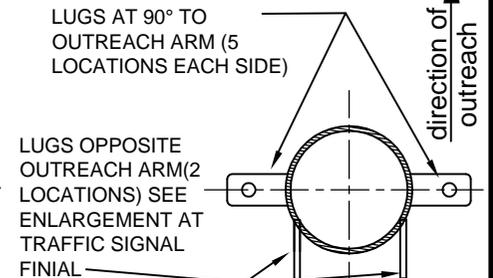
SECTION X-X



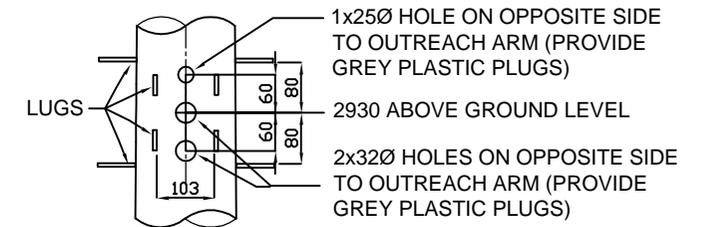
ACCESS COVER DETAIL



LUG DETAIL



SECTION Y-Y



ENLARGEMENT AT TRAFFIC SIGNAL FINIAL

DESIGNED	TL	CHECKED	TL
DRAWN	JR/JB	CERTIFIED	RS
	DATE	05/2001	
	SCALE	N.T.S.	
	DRWG No.	C-ES-102-02	

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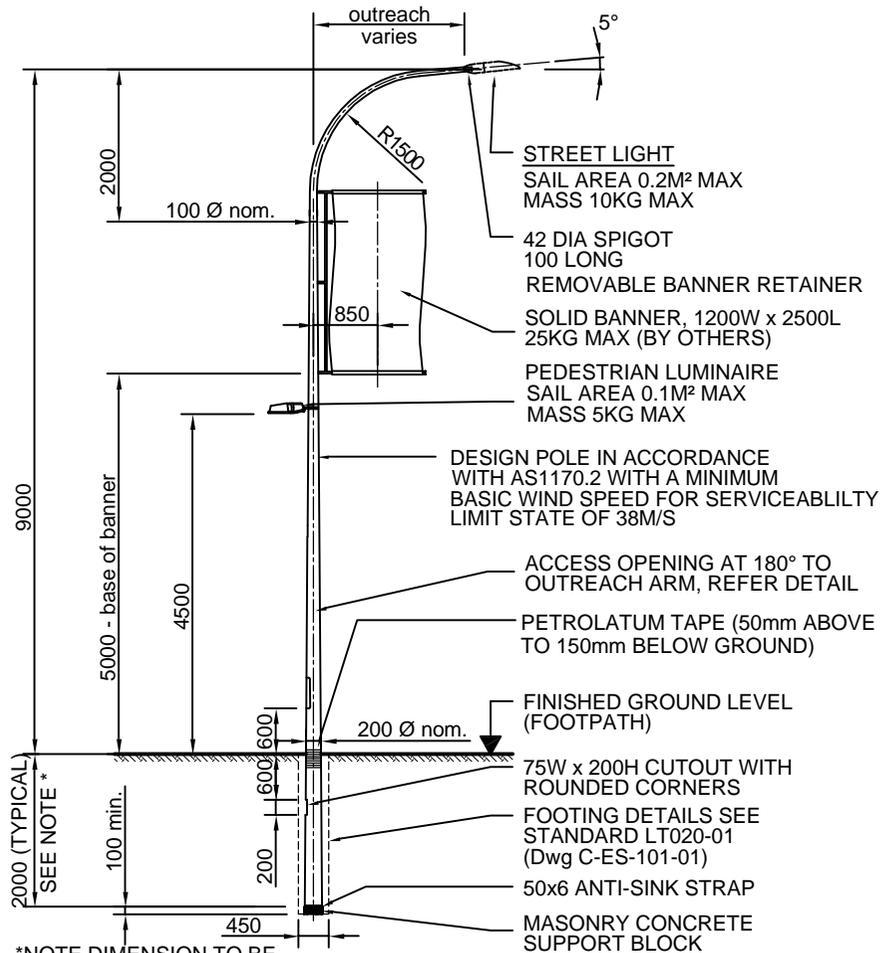
CONSTRUCTION STANDARD

Lighting and Electrical
6.5 M COLUMN
with Traffic Light Attachments



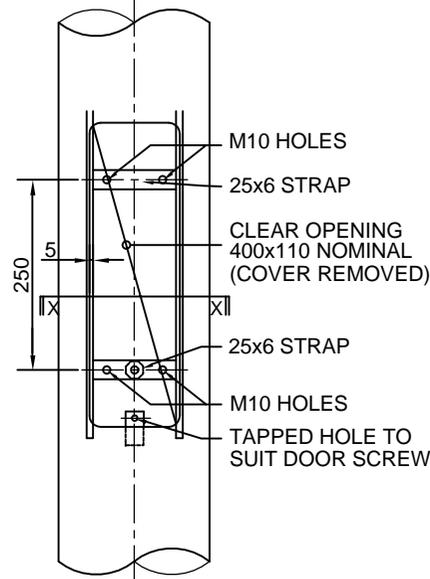
STANDARD NUMBER	SHEET No.
LT 400	02

FOR CODE REFERENCES, OPTIONS, VARIABLE DIMENSIONS AND GENERAL INFORMATION, SEE STANDARD LT010-01 (Dwg C-ES-100-01)

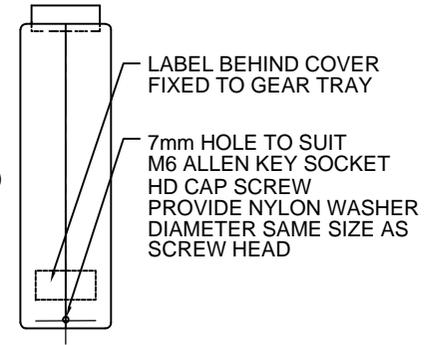


ELEVATION

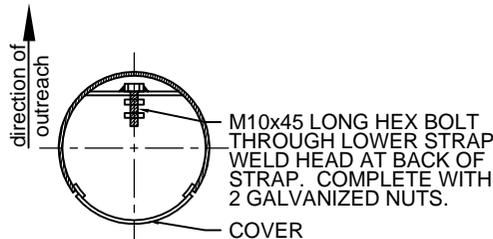
*NOTE DIMENSION TO BE NOTIFIED BY MANUFACTURER



ENLARGEMENT AT ACCESS OPENING



ACCESS COVER DETAIL



SECTION X-X

NOTE

1. COLUMN TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND ATTACHED ACC SPECIFICATION.
2. COLUMN SHALL BE HOT DIPPED GALVANISED AND WET PAINTED IN ACCORDANCE WITH ATTACHED ACC SPECIFICATION.
3. FOR FOOTING DETAILS REFER TO STANDARD LT020-01 (Dwg C-ES-101-01)
4. LABEL REQUIREMENTS

CORPORATION OF THE CITY OF ADELAIDE
MANUFACTURER'S NAME
CONTRACT NUMBER
MONTH/YEAR OF MANUFACTURE

DESIGNED TL	CHECKED TL
DRAWN JR/JB	CERTIFIED RS
DATE 05/2001	
SCALE N.T.S.	
DRWG No. C-ES-103-01	

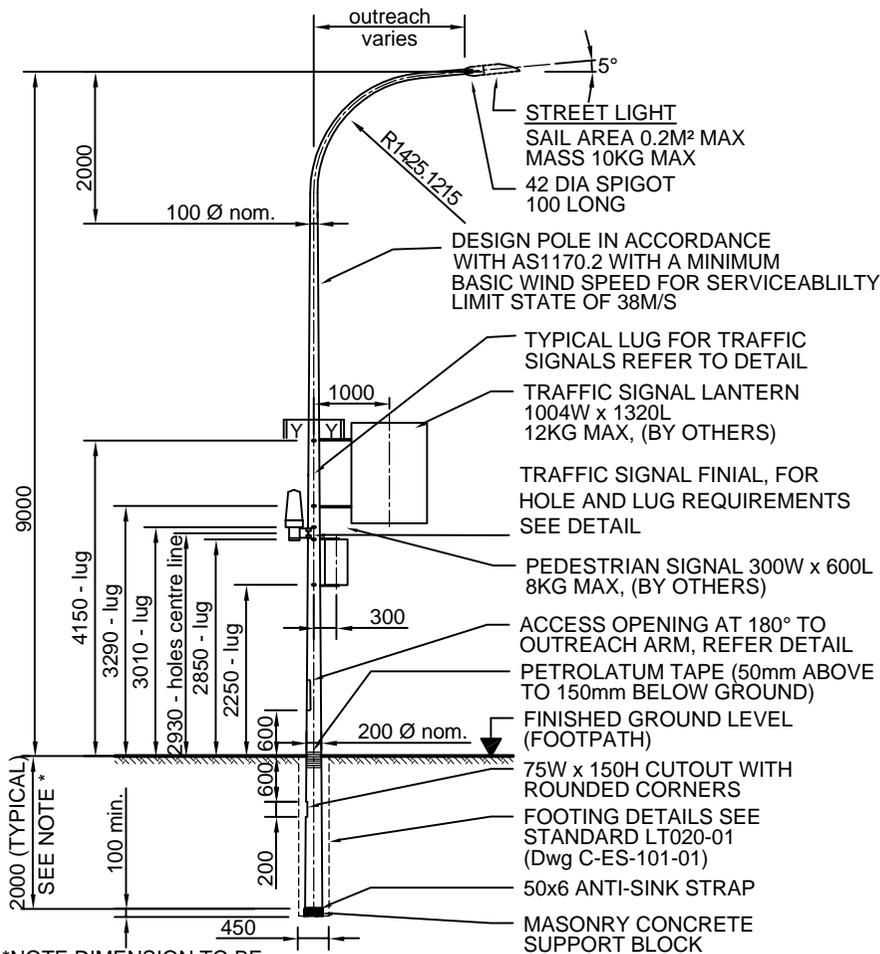
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CONSTRUCTION STANDARD
Lighting and Electrical
9.0 M COLUMN

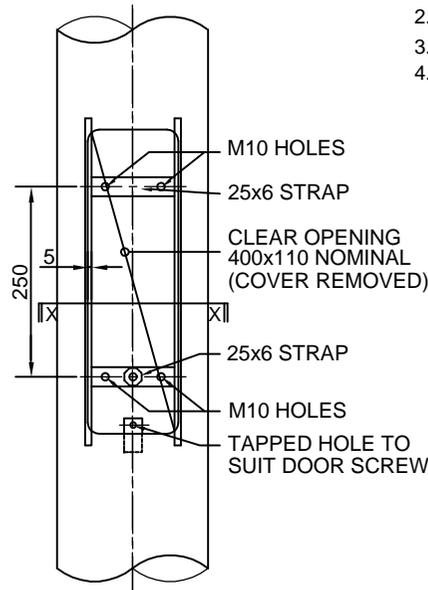


STANDARD NUMBER	SHEET No.
LT 410	01

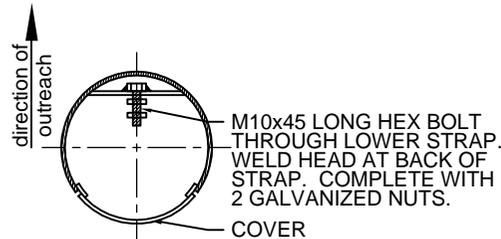
FOR CODE REFERENCES, OPTIONS, VARIABLE DIMENSIONS AND GENERAL INFORMATION, SEE STANDARD LT010-01 (Dwg C-ES-100-01)



ELEVATION



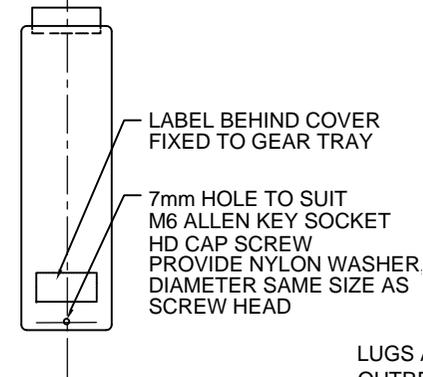
ENLARGEMENT AT ACCESS OPENING



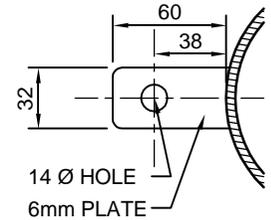
SECTION X-X

NOTE

1. COLUMN TO CONFORM TO RELEVANT AUSTRALIAN STANDARDS AND ATTACHED ACC SPECIFICATION.
2. COLUMN SHALL BE HOT DIPPED GALVANISED
3. FOR FOOTING DETAILS REFER TO STANDARD LT020-01 (Dwg C-ES-101-01)
4. FOR LABEL REQUIREMENTS REFER TO STANDARD LT410-01 (Dwg C-ES-103-01)



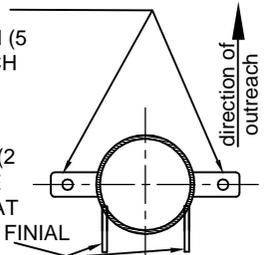
**ACCESS COVER
DETAIL**



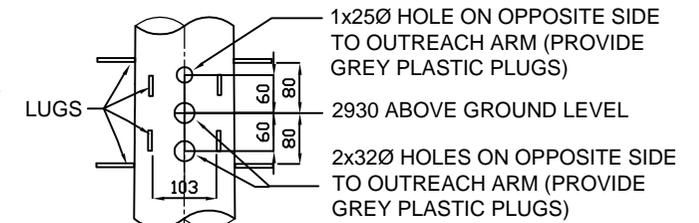
LUG DETAIL

LUGS AT 90° TO
OUTREACH ARM (5
LOCATIONS EACH
SIDE)

LUGS OPPOSITE
OUTREACH ARM (2
LOCATIONS) SEE
ENLARGEMENT AT
TRAFFIC SIGNAL
FINIAL



SECTION Y-Y



ENLARGEMENT AT TRAFFIC SIGNAL FINIAL

DESIGNED TL	CHECKED TL
DRAWN JR/JB	CERTIFIED RS
DATE 05/2001	
SCALE N.T.S.	
DRWG No. C-ES-103-02	

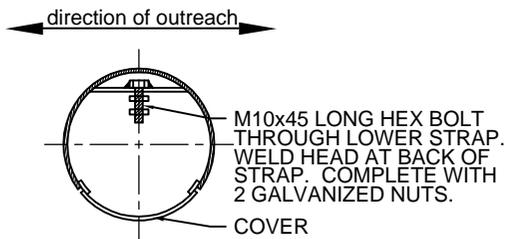
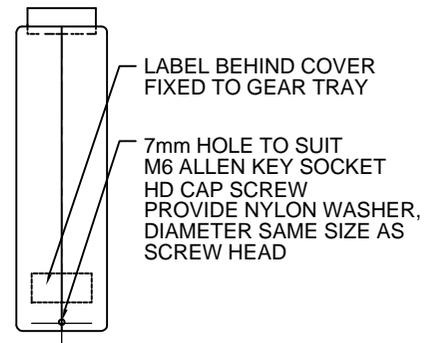
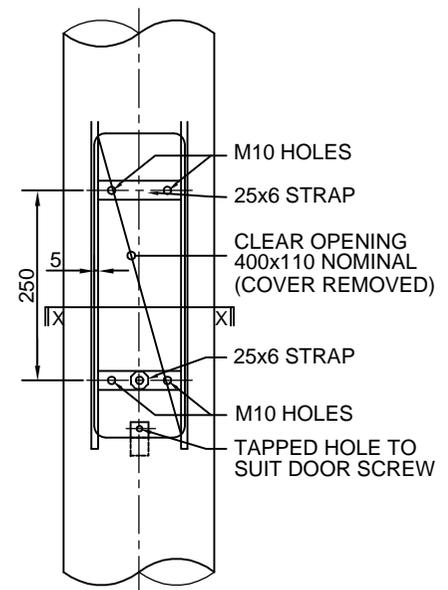
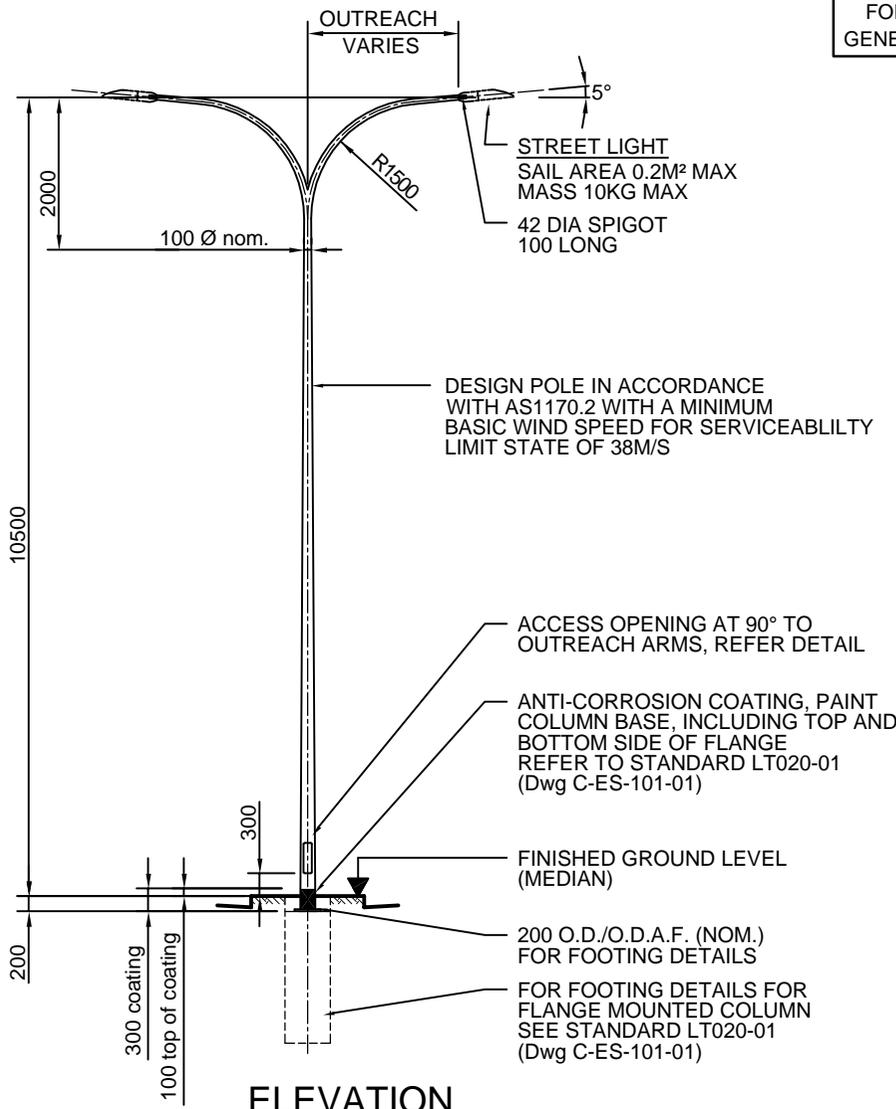
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CONSTRUCTION STANDARD
Lighting and Electrical
9.0 M COLUMN
with Traffic Light Attachments



STANDARD NUMBER	SHEET No.
LT 410	02

FOR CODE REFERENCES, OPTIONS, VARIABLE DIMENSIONS AND GENERAL INFORMATION, SEE STANDARD LT010-01 (Dwg C-ES-100-01)



- NOTE**
1. THESE COLUMNS ARE IMPACT ABSORBING AND COMPLY WITH RELATIVE AUSTRALIAN STANDARDS AND PERFORMANCE CRITERIA IN ACC SUPPLY SPECIFICATION.
 2. COLUMN SHALL BE HOT DIPPED GALVANISED.
 3. FOR FOOTING DETAILS REFER TO STANDARD LT 020-01 (Dwg C-ES-101-01)
 4. LABEL REQUIREMENTS

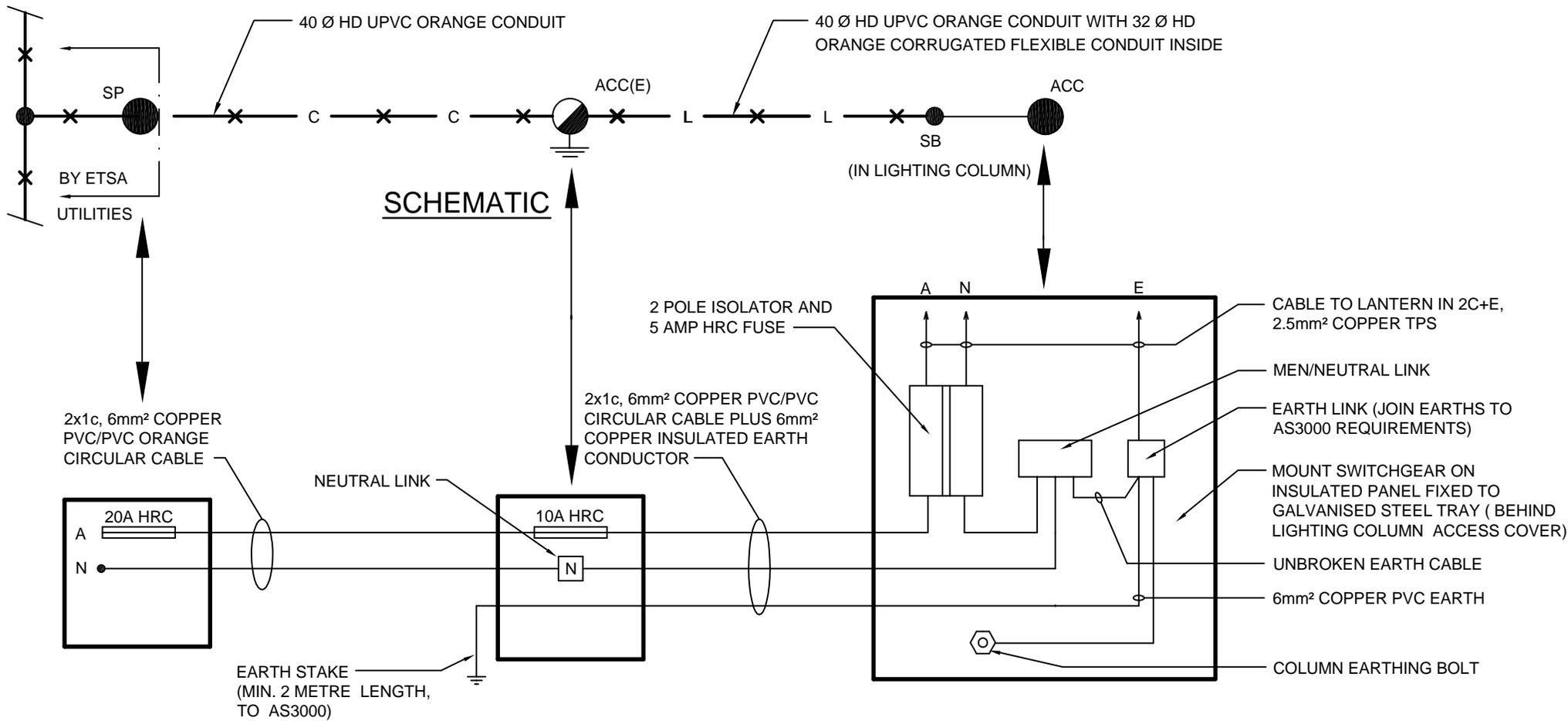
CORPORATION OF THE CITY OF ADELAIDE
MANUFACTURER'S NAME
CONTRACT NUMBER
MONTH/YEAR OF MANUFACTURE

DESIGNED TL	CHECKED TL
DRAWN JR/JB	CERTIFIED RS
DATE 05/2001	
SCALE N.T.S.	
DRWG No. C-ES-105-01	

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CONSTRUCTION STANDARD	
Lighting and Electrical	
10.5 M COLUMN	
Double Outreach	
STANDARD NUMBER	SHEET No.
LT 421	01





SCHMATIC

**ETSA UTILITIES
SERVICE PIT**

**ACC ADAPTABLE FUSE ENCLOSURE
(WITH EARTH STAKE)
REFER TO STANDARD LT310-03 (Dwg C-ES-133-04)**

**LIGHTING COLUMN
(WITH SWITCHBOARD)**

NOTE.
CIRCUIT SIZES ARE MINIMUM.
CONSULTANT/CONTRACTOR TO CONFIRM
SIZE REQUIRED FOR VOLTAGE DROP
CONSIDERATIONS.

TYPICAL CONNECTION DIAGRAM

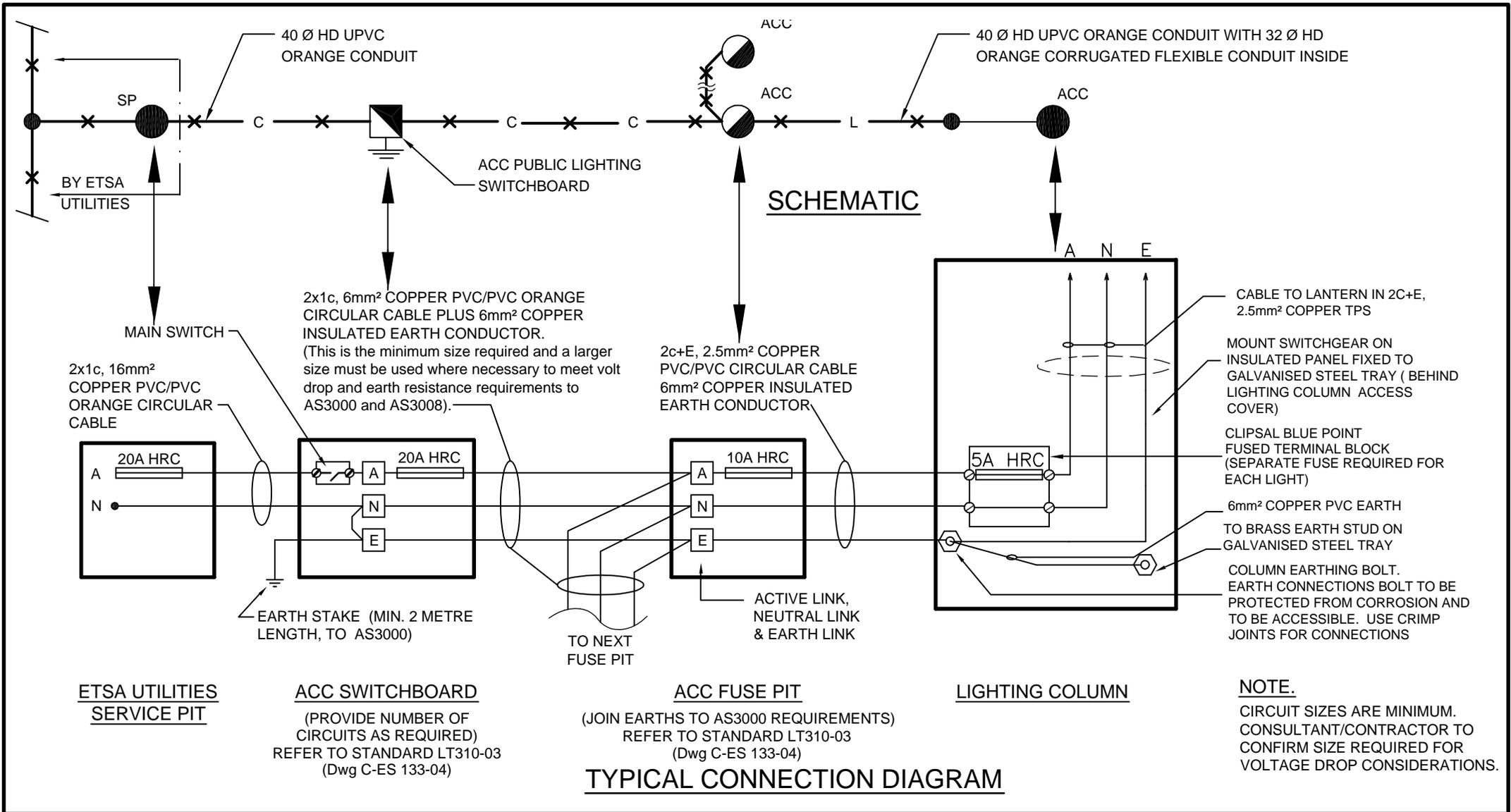
DESIGNED TL	CHECKED TL
DRAWN JR/JB	CERTIFIED RS
DATE 05/2001	
SCALE N.T.S.	
DRWG No. C-ES-130-01	

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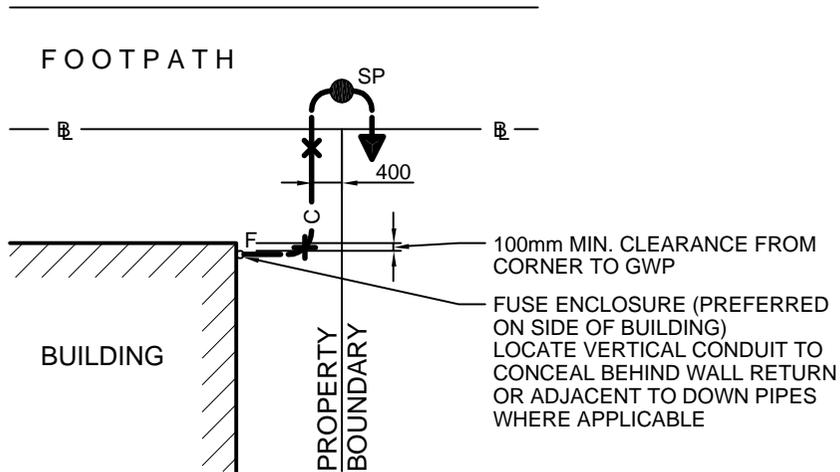
CONSTRUCTION STANDARD
Lighting and Electrical
SINGLE LIGHTING COLUMN
Direct Supply from ETSA Pit



STANDARD NUMBER	SHEET No.
LT 700	01



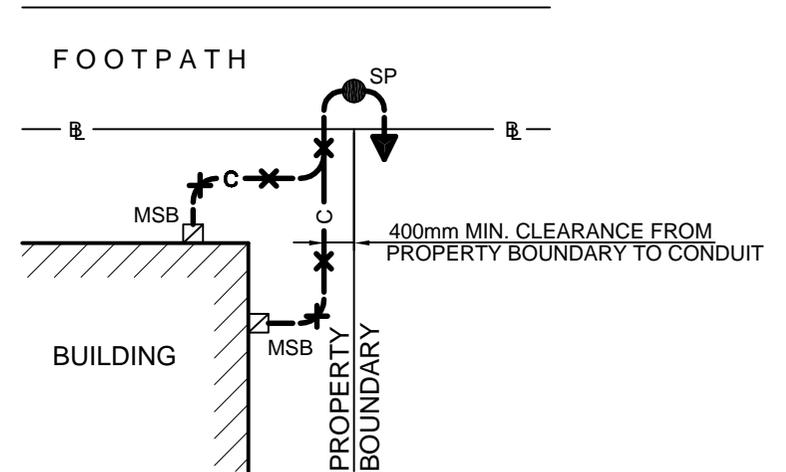
DESIGNED TL	CHECKED TL	CONSTRUCTION STANDARD Lighting and Electrical MULTIPLE LIGHTING COLUMNS	
DRAWN JR/JB	CERTIFIED RS		
DATE 05-2001	SCALE N.T.S.		
DRWG No. C-ES-131-01			
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		LT 700	02



OPTION 1
TO NEW ETSA UTILITIES FUSE ENCLOSURE

NOTE

CONTRACTOR TO LIAISE WITH TELSTRA FOR UTILISING CONSUMER MAINS SERVICE TRENCH (WHERE APPLICABLE)



OPTION 2
TO EXISTING METER SWITCHBOARD

NOTES

1. CONTRACTOR TO LIAISE WITH TELECOMMUNICATIONS AUTHORITY FOR SHARING OF CONSUMER MAINS SERVICE TRENCH (WHERE APPLICABLE).
2. METHOD AND TYPE OF FIXINGS USED FOR GWP SHALL BE TO APPROVAL OF SUPERINTENDENT.
3. THE INSTALLED PVC BEND AND COUPLING ADAPTOR SHALL BE INSPECTED BY SUPERINTENDENT PRIOR TO BACK FILLING.
4. THE PROPOSED GWP AND FUSE ENCLOSURE SHALL BE PAINTED WITH PRIMER AND TWO COATS OF EXTERIOR PAINT. COLOUR TO MATCH THE WALL OR STRUCTURE THAT EQUIPMENT IS MOUNTED TO.
5. FOR ELEVATIONS, REFER TO STANDARD LT800-02 (Dwg C-ES-150-02) .

SCHEDULE

NEW CONSUMER MAINS SERVICE

SERVICE TYPE	No. OF PHASES	SERVICE CAPACITY	CABLE SIZE & TYPE Cu,PVC/PVC	U/G CONDUIT HD UPVC NOM.SIZE	ABOVEGROUND GWP (MEDIUM DUTY) NOM. BORE	DIMENSIONS OF FUSE ENCLOSURE (W x H x D)
A	1	70AMP	16mm ²	32Ø	25Ø	380 x 200 x 180
B	2	60AMP	16mm ²	40Ø	32Ø	380 x 200 x 180
C	3	60AMP	16mm ²	40Ø	32Ø	380 x 300 x 180
D	3	100AMP	25mm ²	50Ø	40Ø	380 x 300 x 180
E	3	100AMP	35mm ²	50Ø	40Ø	380 x 300 x 180
F	3	200AMP	95mm ²	65Ø	65Ø	800 x 370 x 250

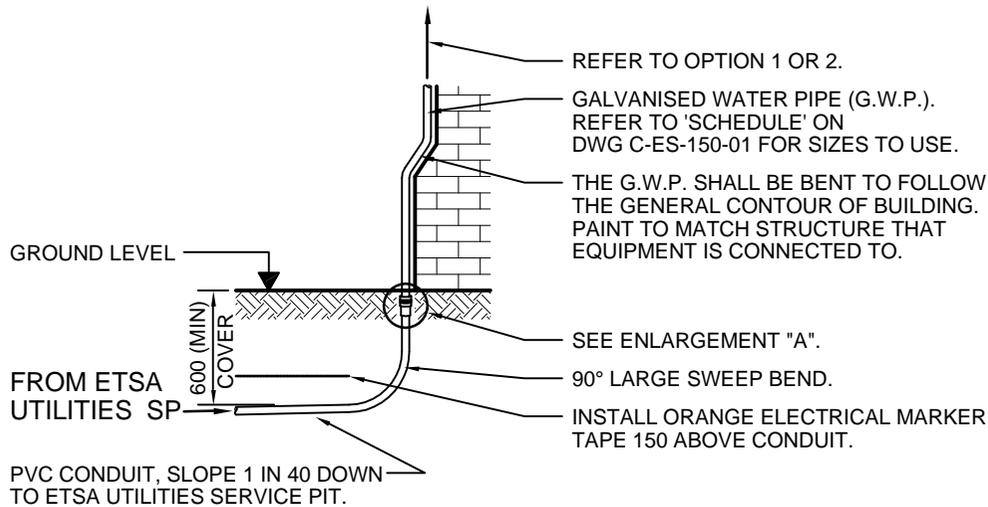
DESIGNED TL	CHECKED TL
DRAWN JR/JB	CERTIFIED RS
DATE 05/2001	
SCALE N.T.S.	
DRWG No. C-ES-150-01	

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CONSTRUCTION STANDARD
Lighting and Electrical
UNDERGROUNDING OF PRIVATE PROPERTIES
Plan and Schedule



STANDARD NUMBER	SHEET No.
LT 800	01



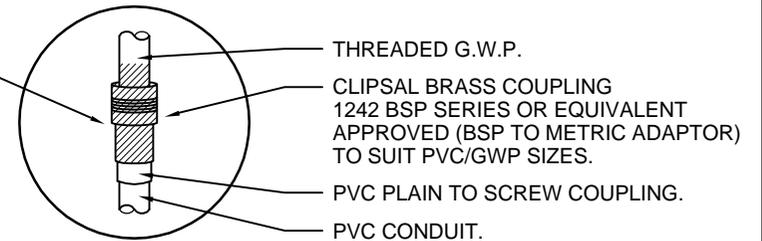
COMSUMERS SERVICE MAIN

NOTES

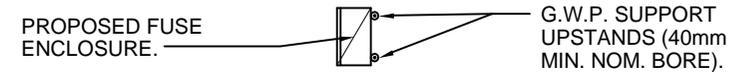
1. FOR PLAN, NOTES AND SCHEDULE, REFER TO STANDARD LT800-01 (Dwg C-ES-150-01).

PROTECTION

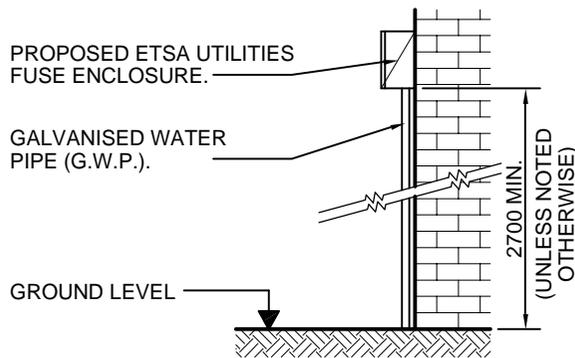
1. PAINT THREADS. PAINT BRASS COUPLING WITH BITUMINOUS PAINT.
2. ASSEMBLE AND PAINT OUTSIDE.



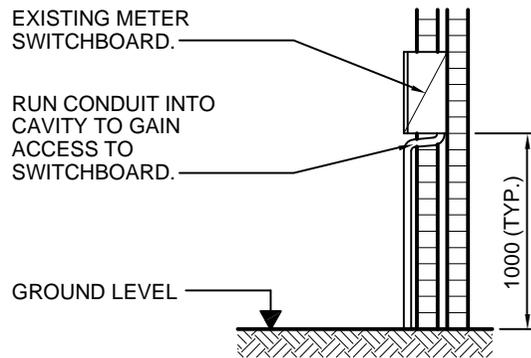
ENLARGEMENT 'A'
(N.T.S.)



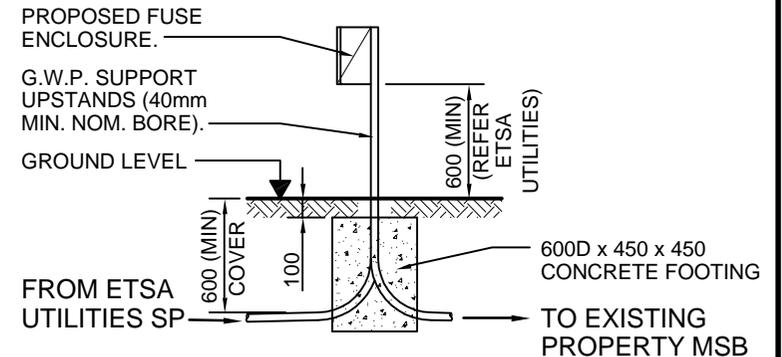
OPTION 3 - PLAN VIEW



OPTION 1
TO NEW E.T.S.A. UTILITIES FUSE ENCLOSURE
(WHERE METER BOX IS INSIDE BUILDING)



OPTION 2
TO EXISTING METER SWITCHBOARD
(WHERE METER SWITCHBOARD IS EXTERNAL TO BUILDING)



OPTION 3
TO NEW FUSE ENCLOSURE ON UPSTAND
(WHERE THE FUSE ENCLOSURE CANNOT BE FIXED TO BUILDING)

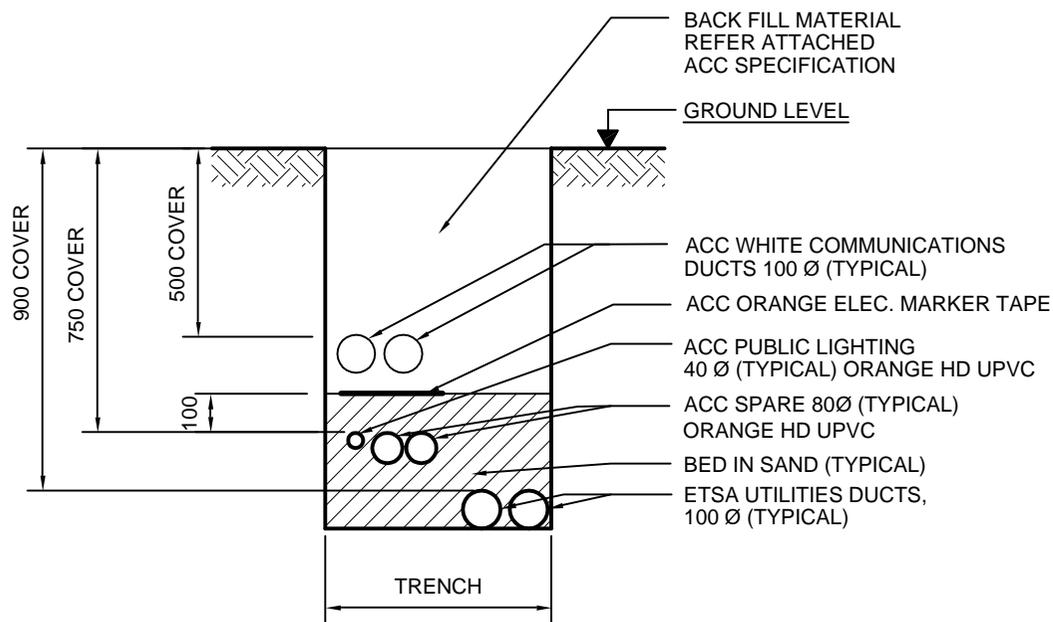
DESIGNED TL	CHECKED TL
DRAWN JR/JB	CERTIFIED RS
DATE 05/2001	
SCALE N.T.S.	
DRWG No. C-ES-150-02	

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CONSTRUCTION STANDARD
Lighting and Electrical
UNDERGROUNDING OF PRIVATE PROPERTIES
Details



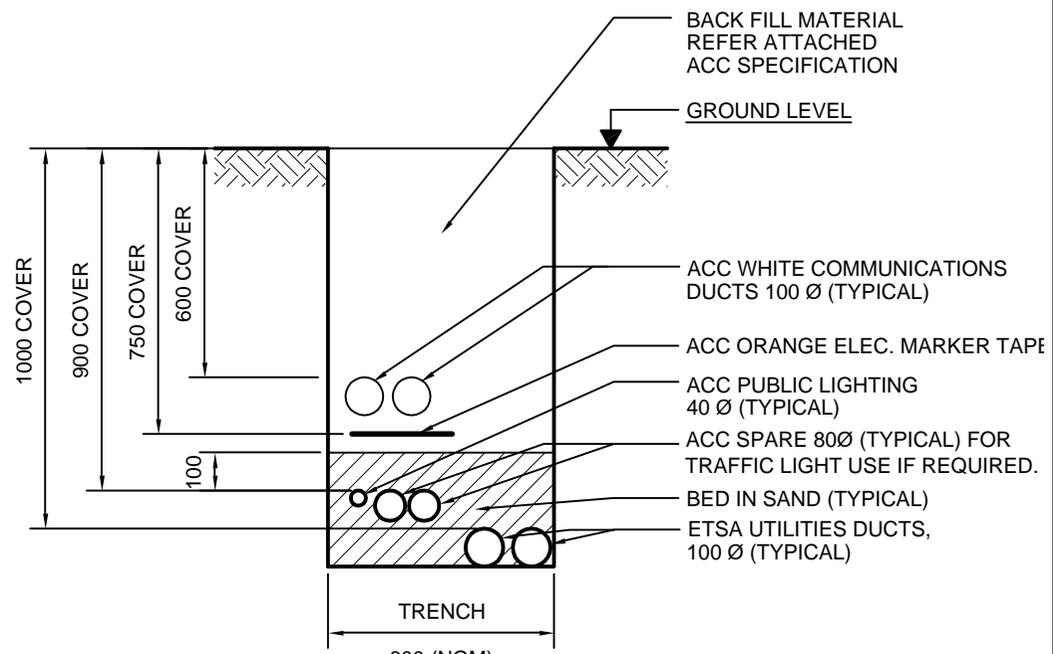
STANDARD NUMBER	SHEET No.
LT 800	02



600 (NOM) WITH ETSa UTILITIES DUCTS
300 (NOM) WITHOUT ETSa UTILITIES DUCTS

FOOTPATH

(ACC & ETSa UTILITIES ELECTRICAL DUCTS)



600 (NOM)

ROADWAY

(ACC & ETSa UTILITIES ELECTRICAL DUCTS)

NOTE

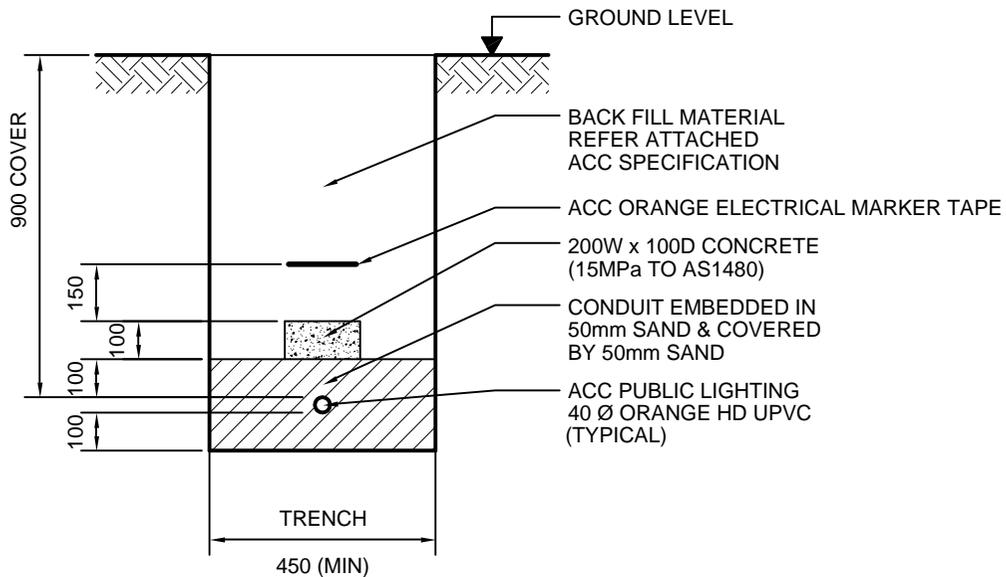
1. CO-ORDINATE DUCTING REQUIREMENTS WITH ALL SERVICE AUTHORITIES

DESIGNED	TL	CHECKED	TL
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		DATE	05/2001
		SCALE	N.T.S.
		DRWG No.	C-ES-140-01

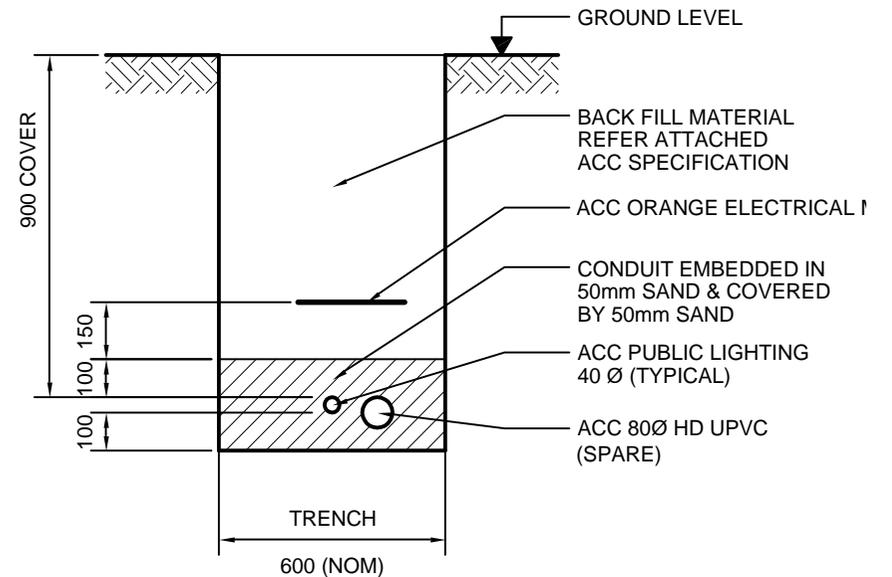
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CONSTRUCTION STANDARD Lighting and Electrical TRENCHES Streets	

STANDARD NUMBER	SHEET No.
LT 900	01



PARK LANDS - GENERAL



PARK LANDS - PATHWAY LIGHTING

NOTE

- 1 CO-ORDINATE DUCTING REQUIREMENTS WITH ALL SERVICE AUTHORITIES.
- 2 PERMANENT CABLE MARKERS REQUIRED AT MAXIMUM SPACING OF 30 METRES FOR LONG STRAIGHT ROUTES AND AT ANY CHANGE OF DIRECTION.
- 3 EVENT AREAS SHALL BE AS PARKLANDS GENERAL, BUT WITH 1500mm COVER.

(FOR PUBLIC LIGHTING UNDER OR ADJACENT TO PATHWAYS, WHERE CABLE ROUTE IS CLEARLY DEFINED. CONTACT ACC PROJECT MANAGER TO DETERMINE ACCEPTABLE LOCATIONS)
IT IS NOT TO BE USED IN EVENT AREAS.

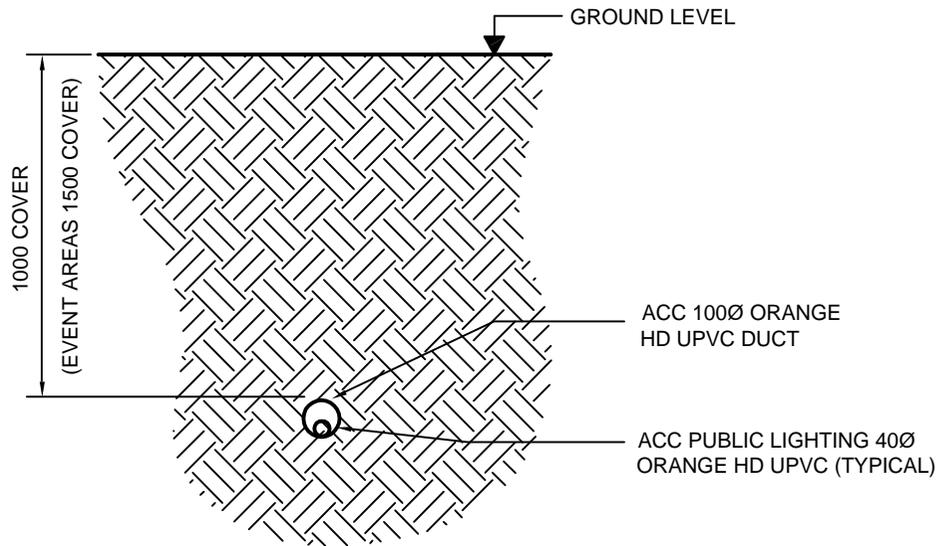
DESIGNED	TL	CHECKED	TL
DRAWN	JR/JB	CERTIFIED	RS
		DATE	05/2001
		SCALE	N.T.S.
		DRWG No.	C-ES-141-01

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CONSTRUCTION STANDARD
 Lighting and Electrical
 TRENCHES
 Park Lands



STANDARD NUMBER	SHEET No.
LT 900	02



PARK LANDS - BORED

FOR PUBLIC LIGHTING UNDER OR ADJACENT TO PATHWAYS WHERE CABLE ROUTE IS CLEARLY DEFINED AND TRADITIONAL TRENCHING METHODS ARE NOT PRACTICAL AND/OR MAY CAUSE HARM TO EXISTING VEGETATION. FOR PREFERRED METHOD OF CABLE POSITIONING IN PARK LANDS, SEE STANDARD LT900-02 (Dwg C-ES-141-01).

NOTE

- 1 CO-ORDINATE DUCTING REQUIREMENTS WITH ALL SERVICE AUTHORITIES.
- 2 PERMANENT CABLE MARKERS REQUIRED AT MAXIMUM SPACING OF 30 METRES FOR LONG STRAIGHT ROUTES AND AT ANY CHANGE OF DIRECTION AND AT ANY ENDS OF CONDUIT/CABLE RUN.
- 3 EVENT AREAS 1500mm COVER.

DESIGNED TL	CHECKED TL	<p style="text-align: center;">CONSTRUCTION STANDARD</p> <p style="text-align: center;">Lighting and Electrical</p> <p style="text-align: center;">BORED TRENCHES</p> <p style="text-align: center;">Park Lands</p>	
DRAWN NS/JB	CERTIFIED RS		
DATE 05/2001	SCALE N.T.S.		
	DRWG No. C-ES-141-02	© COPYRIGHT	STANDARD NUMBER
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			SHEET No. 03