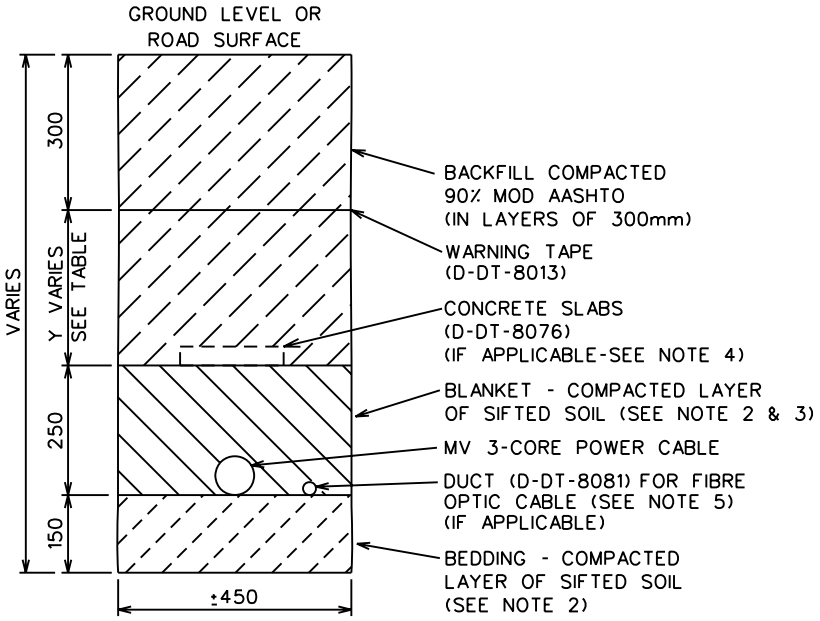
DEPTH TO BLANKET LAYER OR CONCRETE SLABS (IF APPL.) BELOW WARNING TAPE	
APPLICATION	Y (mm)
GENERAL	300
RAIL/ROAD CROSSING	900
UNDER ROAD SURFACE (PARALLEL TO KERBING)	600



NOTE :

1. WHEN TRENCHING IN SOIL FREE OF STONES, ROCKS etc. CABLE MAY BE LAID DIRECTLY WITHOUT BEDDING. BACKFILL TO BE INCREASED ACCORDINGLY.
2. A SIEVE OF 12mm MESH SIZE MAY BE USED TO SIFT SOIL.
3. BLANKET SOIL TO BE COMPACTED WITH HAND COMPACTING TOOLS ONLY.
4. WHERE THE CABLE TRENCH RUNS PARALLEL TO AND UNDER THE ROAD SURFACE, IT SHALL BE POSITIONED AT LEAST 200mm FROM THE EDGE OF THE KERBING / ROAD TARRED SURFACE.
   ONLY IN THIS CASE SHALL CONCRETE SLABS BE INSTALLED ABOVE THE CABLE.
   TAR CUTTING MACHINE TO BE USED.
   BACKFILL TO RELEVANT ROAD AGENCY SPECIFICATION.
5. THE DUCT FOR THE FIBRE OPTIC CABLE SHALL BE INSTALLED ON THE SIDE OF THE TRENCH CLOSEST TO THE PROPERTY BOUNDARY.
   SPACING TO BE DETERMINED BY PROJECT ENGINEER.

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
8	CONCRETE SLABS ADDED ON SH.S 2 & 4 AND CABLE POSITION CORRECTED FOR BELOW OTHER SERVICES ON SH.7	P.A.T.	B.MWAREHWA	R.KELLY	16.08.2010	
7	NOTES AMMENDED ON SHTS 1,3,5 & 6.	P.A.T.	R.KELLY	R.KELLY	10.07.2009	
6	CABLE SIZE SHOWN ON DETAILS & SH 5 POSITION OF ELECTRICAL CABLE CORRECTED	P.A.T.	R.KELLY	R.KELLY	29.01.2009	

Eskom Distribution

MV POWER CABLE TRENCH DETAILS (1 OFF - 3 CORE)

AUTH:	P. CROWDY
DATE:	21.12.1999
CHKD:	G. WHYTE
DATE:	10.12.1999
DRAWN:	P.A.V.
DATE:	30.07.1999

D-DT-0854

SET	SHEET	REVISION
8	1	8

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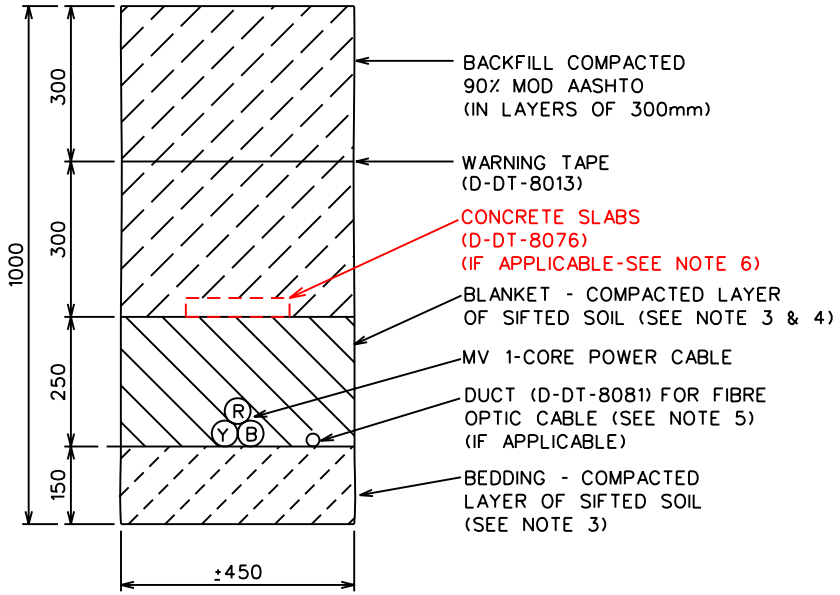

NOTE :

1. WHEN TRENCHING IN SOIL FREE OF STONES, ROCKS etc. CABLE MAY BE LAID DIRECTLY WITHOUT BEDDING. BACKFILL TO BE INCREASED ACCORDINGLY.
2. SINGLE CORE TREFOIL GROUP TO BE BOUND AT LEAST EVERY 3m WITH NON-METALLIC TIE BEFORE BACKFILLING.
3. A SIEVE OF 12mm MESH SIZE MAY BE USED TO SIFT SOIL.
4. BLANKET SOIL TO BE COMPACTED WITH HAND COMPACTING TOOLS ONLY.
5. THE DUCT FOR THE FIBRE OPTIC CABLE SHALL BE INSTALLED ON THE SIDE OF THE TRENCH CLOSEST TO THE PROPERTY BOUNDARY. SPACING TO BE DETERMINED BY PROJECT ENGINEER.
6. FOR UNARMOURED CABLES, IF SPECIFIED BY THE PROJECT ENGINEER, CONCRETE SLABS MAY BE INSTALLED ABOVE THE CABLES WHERE THERE IS AN INCREASED RISK OF DAMAGE.

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
8	CONCRETE SLABS ADDED ON SH.S 2 & 4 AND CABLE POSITION CORRECTED FOR BELOW OTHER SERVICES ON SH.7	P.A.T.	B.MWAREHWA	R.KELLY	16.08.2010	
7	NOTES AMMENDED ON SHTS 1,3,5 & 6.	P.A.T.	R.KELLY	R.KELLY	10.07.2009	
6	CABLE SIZE SHOWN ON DETAILS & SH 5 POSITION OF ELECTRICAL CABLE CORRECTED	P.A.T.	R.KELLY	R.KELLY	29.01.2009	

Eskom Distribution

AUTH:	P. CROWDY
DATE:	21.12.1999
CHKD:	G. WHYTE
DATE:	10.12.1999
DRAWN:	P.A.V.
DATE:	30.07.1999

MV CABLE TRENCH DETAILS (1 OFF - 3 x 1 CORE)

D-DT-0854

SET	SHEET	REVISION
8	2	8

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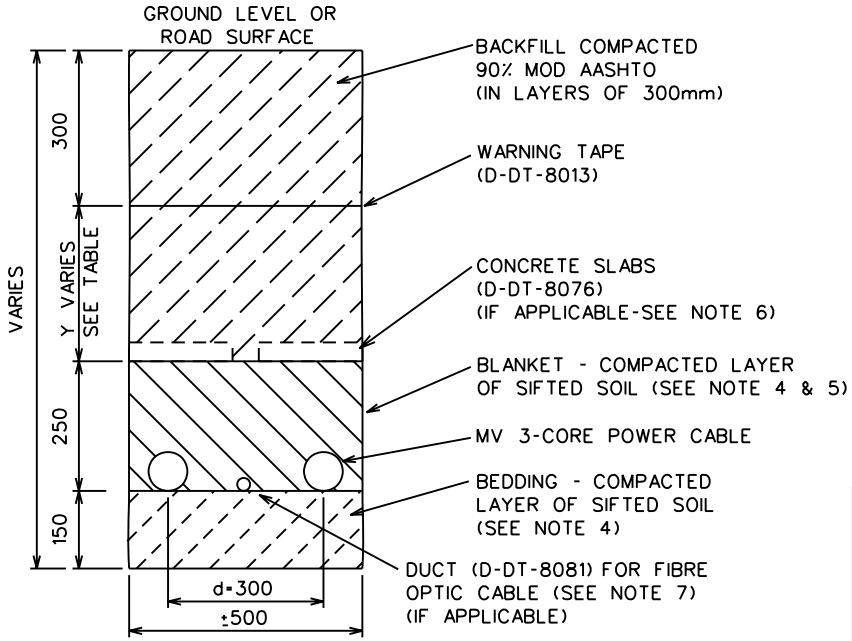
DEPTH TO BLANKET LAYER OR CONCRETE SLABS (IF APPL.) BELOW WARNING TAPE	
APPLICATION	Y (mm)
GENERAL	300
RAIL/ROAD CROSSING	900
UNDER ROAD SURFACE (PARALLEL TO KERBING)	600

DE-RATING FACTOR			
No OF CABLES	d = SPACING (mm)		
	TOUCHING	150	300
2	0.80	0.85	0.89
3	0.69	0.75	0.80
4	0.63	0.70	0.77



NOTE :

1. WHEN TRENCHING IN SOIL FREE OF STONES, ROCKS etc. CABLE MAY BE LAID DIRECTLY WITHOUT BEDDING. BACKFILL TO BE INCREASED ACCORDINGLY.
2. A MINIMUM SPACING OF 300mm BETWEEN CABLES TO BE MAINTAINED WHERE POSSIBLE. DE-RATING FACTOR TO BE APPLIED.
3. WHEN TRENCHING IN ROCKY GROUND A MINIMUM OF 150mm TO BE KEPT BETWEEN CABLE AND TRENCH WALL.
4. A SIEVE OF 12mm MESH SIZE MAY BE USED TO SIFT SOIL.
5. BLANKET SOIL TO BE COMPACTED WITH HAND COMPACTING TOOLS ONLY.
6. WHERE THE CABLE TRENCH RUNS PARALLEL TO AND UNDER THE ROAD SURFACE, IT SHALL BE POSITIONED AT LEAST 200mm FROM THE EDGE OF THE KERBING / ROAD TARRED SURFACE.
   ONLY IN THIS CASE SHALL CONCRETE SLABS BE INSTALLED ABOVE THE CABLE.
   TAR CUTTING MACHINE TO BE USED.
   BACKFILL TO RELEVANT ROAD AGENCY SPECIFICATION.
7. THE DUCT FOR THE FIBRE OPTIC CABLE SHALL BE INSTALLED ON THE SIDE OF THE TRENCH CLOSEST TO THE PROPERTY BOUNDARY.
   SPACING TO BE DETERMINED BY PROJECT ENGINEER.

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
8	CONCRETE SLABS ADDED ON SH.S 2 & 4 AND CABLE POSITION CORRECTED FOR BELOW OTHER SERVICES ON SH.7	P.A.T.	B.MWAREHWA	R.KELLY	16.08.2010	
7	NOTES AMMENDED ON SHTS 1,3,5 & 6.	P.A.T.	R.KELLY	R.KELLY	10.07.2009	
6	CABLE SIZE SHOWN ON DETAILS & SH 5 POSITION OF ELECTRICAL CABLE CORRECTED	P.A.T.	R.KELLY	R.KELLY	29.01.2009	

Eskom Distribution

AUTH:	P. CROWDY
DATE:	21.12.1999
CHKD:	G. WHYTE
DATE:	10.12.1999
DRAWN:	P.A.V.
DATE:	30.07.1999

MV POWER CABLE TRENCH DETAILS (2 OR MORE OFF - 3 CORE)

D-DT-0854

SET	SHEET	REVISION
8	3	8

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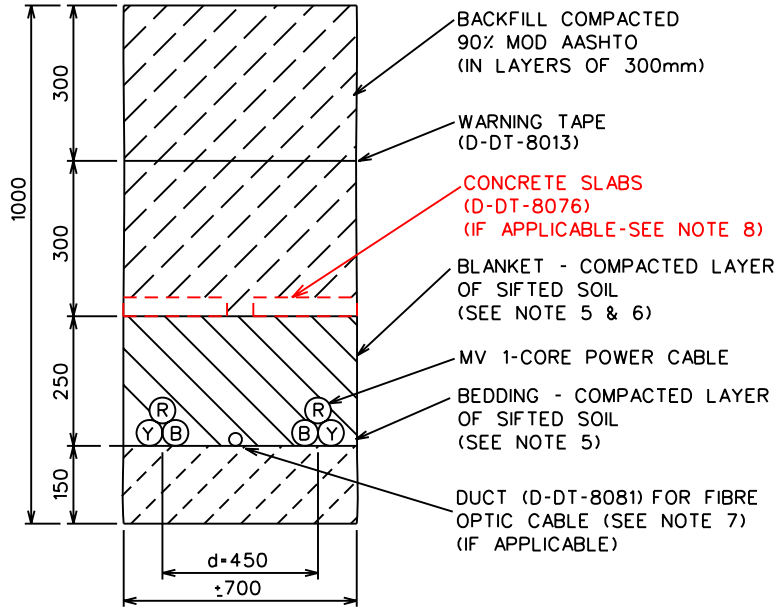
DE-RATING FACTOR				
No OF CABLES	d = SPACING (mm)			
	TOUCHING	150	300	450
2	0.78	0.83	0.88	0.89
3	0.66	0.73	0.79	0.82
4	0.59	0.69	0.76	0.78



NOTE :

1. WHEN TRENCHING IN SOIL FREE OF STONES, ROCKS etc. CABLE MAY BE LAID DIRECTLY WITHOUT BEDDING. BACKFILL TO BE INCREASED ACCORDINGLY.
2. SINGLE CORE TREFOIL GROUP TO BE BOUND AT LEAST EVERY 3m WITH NON-METALLIC TIE BEFORE BACKFILLING.
3. A MINIMUM SPACING OF 450mm BETWEEN CABLES TO BE MAINTAINED WHERE POSSIBLE. DE-RATING FACTOR TO BE APPLIED.
4. WHEN TRENCHING IN ROCKY GROUND A MINIMUM OF 150mm TO BE KEPT BETWEEN CABLE AND TRENCH WALL.
5. A SIEVE OF 12mm MESH SIZE MAY BE USED TO SIFT SOIL.
6. BLANKET SOIL TO BE COMPACTED WITH HAND COMPACTING TOOLS ONLY.
7. THE DUCT FOR THE FIBRE OPTIC CABLE SHALL BE INSTALLED ON THE SIDE OF THE TRENCH CLOSEST TO THE PROPERTY BOUNDARY. SPACING TO BE DETERMINED BY PROJECT ENGINEER.
8. FOR UNARMOURED CABLES, IF SPECIFIED BY THE PROJECT ENGINEER, CONCRETE SLABS MAY BE INSTALLED ABOVE THE CABLES WHERE THERE IS AN INCREASED RISK OF DAMAGE.

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Eskom Distribution

AUTH:	P. CROWDY
DATE:	21.12.1999
CHKD:	G. WHYTE
DATE:	10.12.1999
DRAWN:	P.A.V.
DATE:	30.07.1999

MV CABLE TRENCH DETAILS (2 OR MORE OFF - 3 x 1 CORE)

D-DT-0854

SET	SHEET	REVISION
8	4	8

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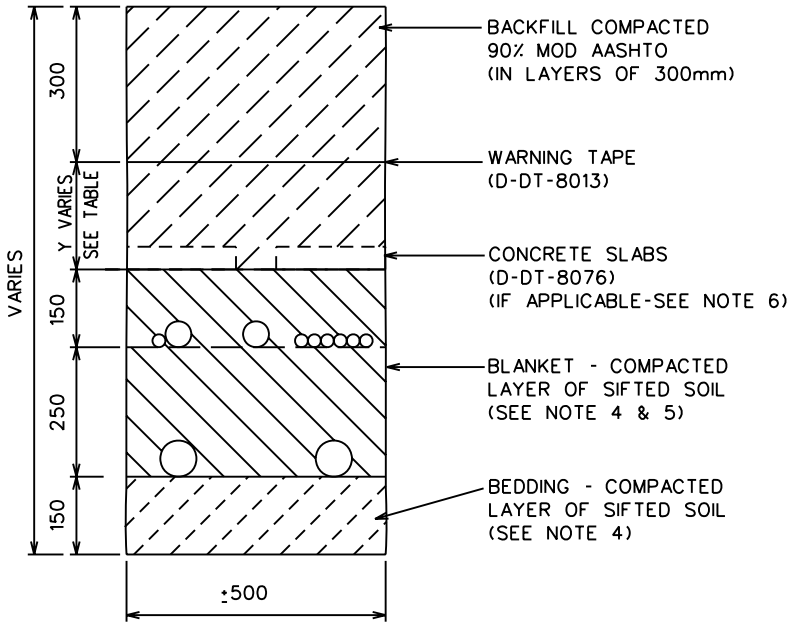
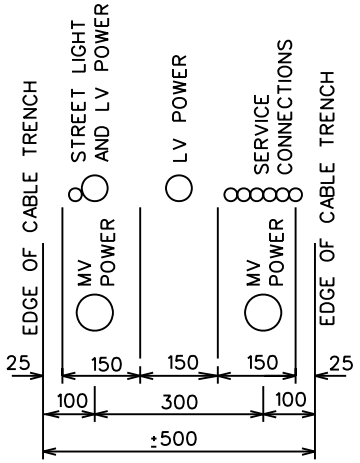
DEPTH TO BLANKET LAYER OR CONCRETE SLABS (IF APPL.) BELOW WARNING TAPE	
APPLICATION	Y (mm)
GENERAL	150
RAIL/ROAD CROSSING	750
UNDER ROAD SURFACE (PARALLEL TO KERBING)	450



CABLE TRENCH DETAILS



POSITION OF ELECTRICAL CABLE

NOTE :

1. WHEN TRENCHING IN SOIL FREE OF STONES, ROCKS etc. CABLE MAY BE LAID DIRECTLY WITHOUT BEDDING. BACKFILL TO BE INCREASED ACCORDINGLY.
2. A MINIMUM SPACING OF 300mm BETWEEN MV CABLES TO BE MAINTAINED WHERE POSSIBLE.
3. WHEN TRENCHING IN ROCKY GROUND A MINIMUM OF 150mm TO BE KEPT BETWEEN CABLE AND TRENCH WALL.
4. A SIEVE OF 12mm MESH SIZE MAY BE USED TO SIFT SOIL.
5. BLANKET SOIL TO BE COMPACTED WITH HAND COMPACTING TOOLS ONLY.
6. WHERE THE CABLE TRENCH RUNS PARALLEL TO AND UNDER THE ROAD SURFACE, IT SHALL BE POSITIONED AT LEAST 200mm FROM THE EDGE OF THE KERBING / ROAD TARRED SURFACE. ONLY IN THIS CASE SHALL CONCRETE SLABS BE INSTALLED ABOVE THE CABLE. TAR CUTTING MACHINE TO BE USED. BACKFILL TO RELEVANT ROAD AGENCY SPECIFICATION.

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
8	CONCRETE SLABS ADDED ON SH.S 2 & 4 AND CABLE POSITION CORRECTED FOR BELOW OTHER SERVICES ON SH.7	P.A.T.	B.MWAREHWA	R.KELLY	16.08.2010	
7	NOTES AMMENDED ON SHTS 1,3,5 & 6.	P.A.T.	R.KELLY	R.KELLY	10.07.2009	
6	CABLE SIZE SHOWN ON DETAILS & SH 5 POSITION OF ELECTRICAL CABLE CORRECTED	P.A.T.	R.KELLY	R.KELLY	29.01.2009	

Eskom Distribution

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DATE:	10.12.1999
DRAWN:	P.A.V.
DATE:	30.07.1999

MV AND LV POWER CABLE WITH ELECTRICAL SERVICES DETAIL

D-DT-0854

SET	SHEET	REVISION
8	5	8

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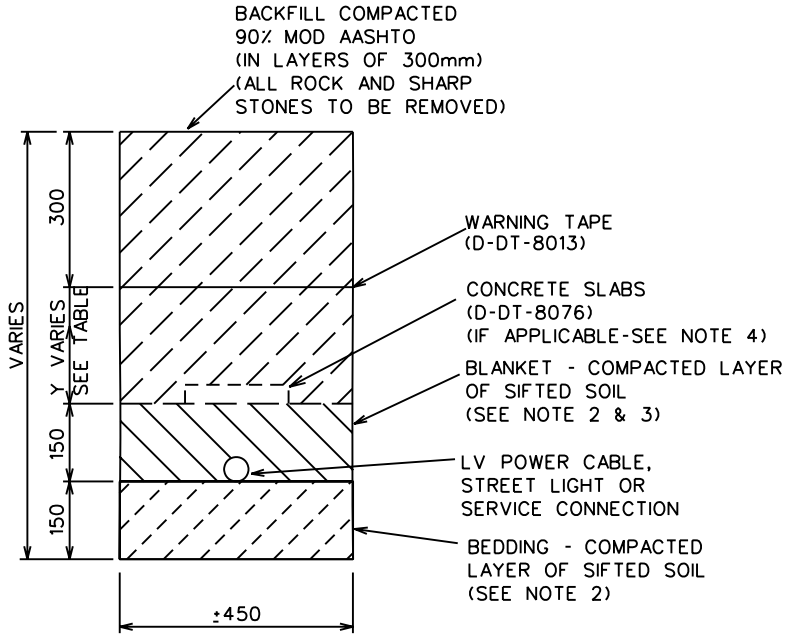
DEPTH TO BLANKET LAYER OR CONCRETE SLABS (IF APPL.) BELOW WARNING TAPE	
APPLICATION	Y (mm)
GENERAL	150
RAIL/ROAD CROSSING	750
UNDER ROAD SURFACE (PARALLEL TO KERBING)	450



NOTE :

1. WHEN TRENCHING IN SOIL FREE OF STONES, ROCKS etc. CABLE MAY BE LAID DIRECTLY INTO 600mm DEEP TRENCH.
2. A SIEVE OF 12mm MESH SIZE MAY BE USED TO SIFT SOIL.
3. BLANKET SOIL TO BE COMPACTED WITH HAND COMPACTING TOOLS ONLY.
4. WHERE THE CABLE TRENCH RUNS PARALLEL TO AND UNDER THE ROAD SURFACE, IT SHALL BE POSITIONED AT LEAST 200mm FROM THE EDGE OF THE KERBING / ROAD TARRED SURFACE. ONLY IN THIS CASE SHALL CONCRETE SLABS BE INSTALLED ABOVE THE CABLE. TAR CUTTING MACHINE TO BE USED. BACKFILL TO RELEVANT ROAD AGENCY SPECIFICATION.

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6	CABLE SIZE SHOWN ON DETAILS & SH 5 POSITION OF ELECTRICAL CABLE CORRECTED	P.A.T.	R.KELLY	R.KELLY	29.01.2009	

Eskom Distribution

AUTH:	P. CROWDY
DATE:	21.12.1999
CHKD:	G. WHYTE
DATE:	10.12.1999
DRAWN:	P.A.V.
DATE:	30.07.1999

LV POWER CABLE, STREET LIGHT OR SERVICE CONNECTION CABLE TRENCH DETAILS

D-DT-0854

SET	SHEET	REVISION
8	6	8

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MV OR LV CABLE RUNNING PARALLEL TO OTHER SERVICES

CLEARANCE	PROTECTION REQUIRED
MORE THAN 600mm	NO FURTHER PROTECTION REQUIRED
300-600mm	CONCRETE COVER SLABS (SEE D-DT-8076) REQUIRED ABOVE CABLE
LESS THAN 300mm	CONCRETE SEPERATOR AND COVER SLABS (SEE D-DT-8076) REQUIRED

MV OR LV POWER CABLE CROSSING OTHER SERVICES

CROSSING	PROTECTION AND CLEARANCE REQUIRED
ABOVE OTHER SERVICE	CABLE PIPE DUCT (SEE D-DT-8018) 300 (MIN) OR CONCRETE COVER SLABS (SEE D-DT-8076) 50 (MIN) 300 (MIN)
BELOW OTHER SERVICE	300 (MIN) CABLE PIPE DUCT (SEE D-DT-8018) OR CONCRETE COVER SLABS (SEE D-DT-8076) 300 (MIN) 50 (MIN)

NOTE :
1. CABLE LAID IN PVC PIPE (D-DT-8018) FOR A DISTANCE OF AT LEAST 1m EITHER SIDE OF CROSSING.
2. ONLY APPLICABLE TO MV AND LV POWER CABLE.

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
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Eskom Distribution

AUTH:	P. CROWDY
DATE:	21/12/1999
CHKD:	G. WHYTE
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DRAWN:	P.A.V.
DATE:	30/07/1999

INSTALLATION OF MV OR LV CABLES IN PROXIMITY TO OTHER SERVICES

D-DT-0854

SET	SHEET	REVISION
8	7	8

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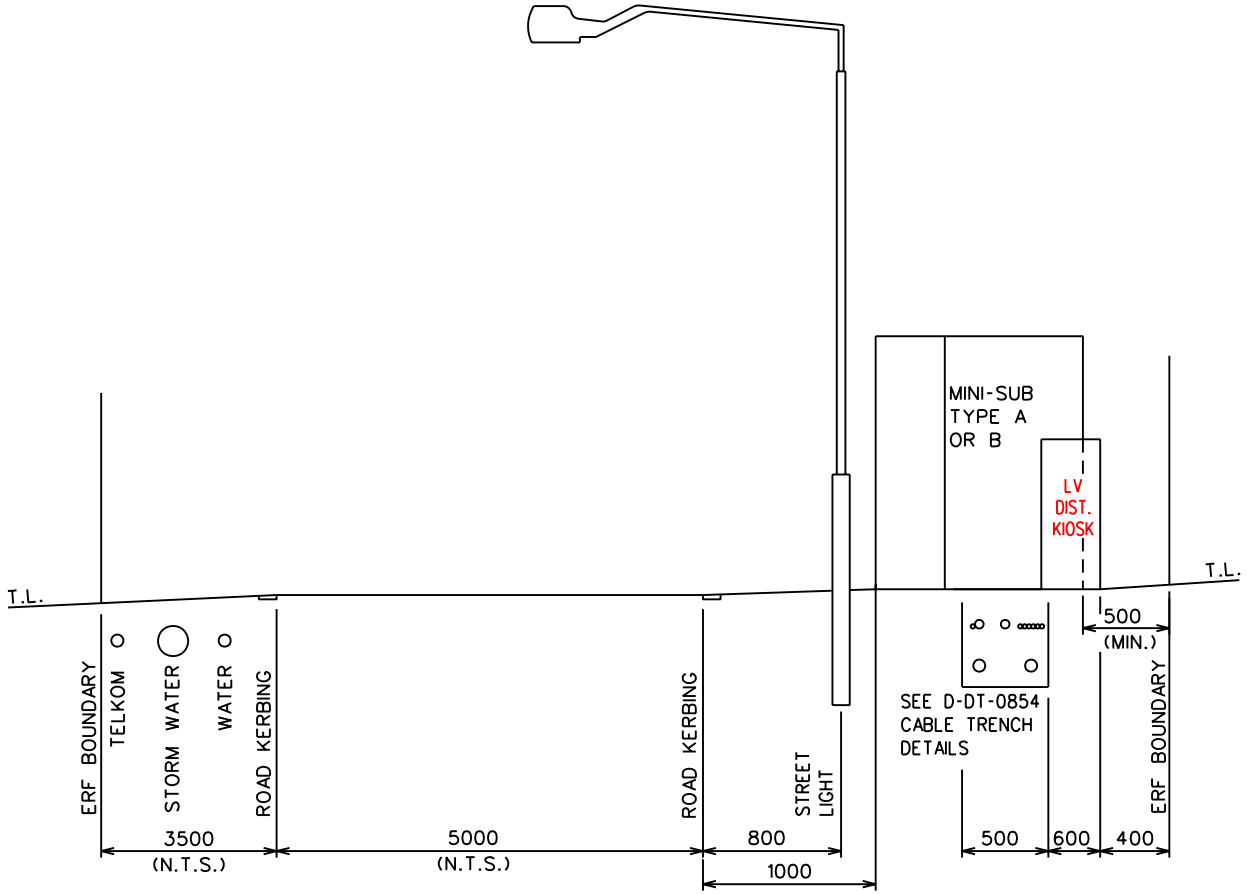

NOTE :
1. MV CABLE NEAREST TO KERBSIDE FOR EASE OF LOCATION.
2. TELKOM AND WATER SERVICES TO BE KEPT ON OPPOSITE SIDE OF ROAD TO ELECTRICAL SERVICES WHERE PRACTICALLY POSSIBLE.

REV	REVISION DESCRIPTION	BY	CHKD	AUTH	DATE	PROJECT NO.
8	CONCRETE SLABS ADDED ON SH.S 2 & 4 AND CABLE POSITION CORRECTED FOR BELOW OTHER SERVICES ON SH.7	P.A.T.	B.MWAREHWA	R.KELLY	16.08.2010	
7	NOTES AMMENDED ON SHTS 1,3,5 & 6.	P.A.T	R.KELLY	R.KELLY	10.07.2009	
6	CABLE SIZE SHOWN ON DETAILS & SH 5 POSITION OF ELECTRICAL CABLE CORRECTED	P.A.T	R.KELLY	R.KELLY	29.01.2009	

Eskom Distribution

AUTH:	P. CROWDY
DATE:	21.12.1999
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DATE:	10.12.1999
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ROAD RESERVE - CABLE AND SERVICE DETAILS

D-DT-0854

SET	SHEET	REVISION
8	8	8

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