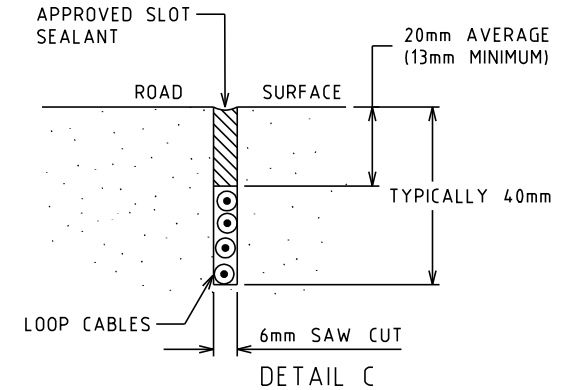
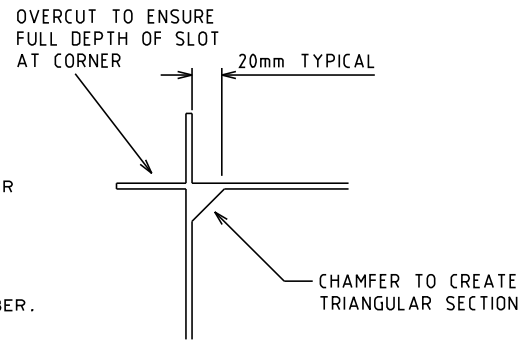
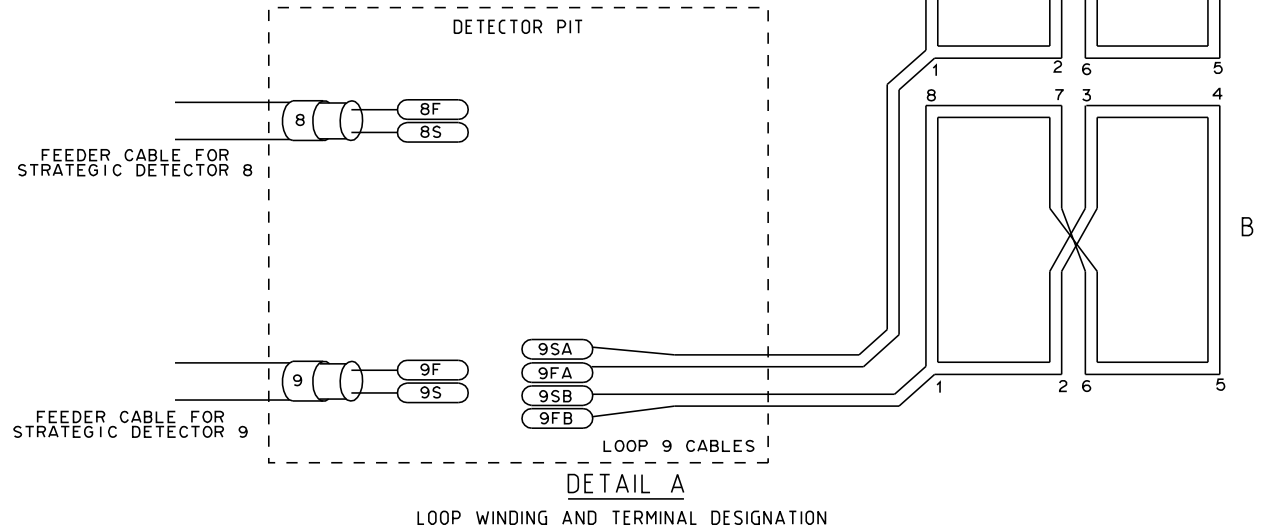
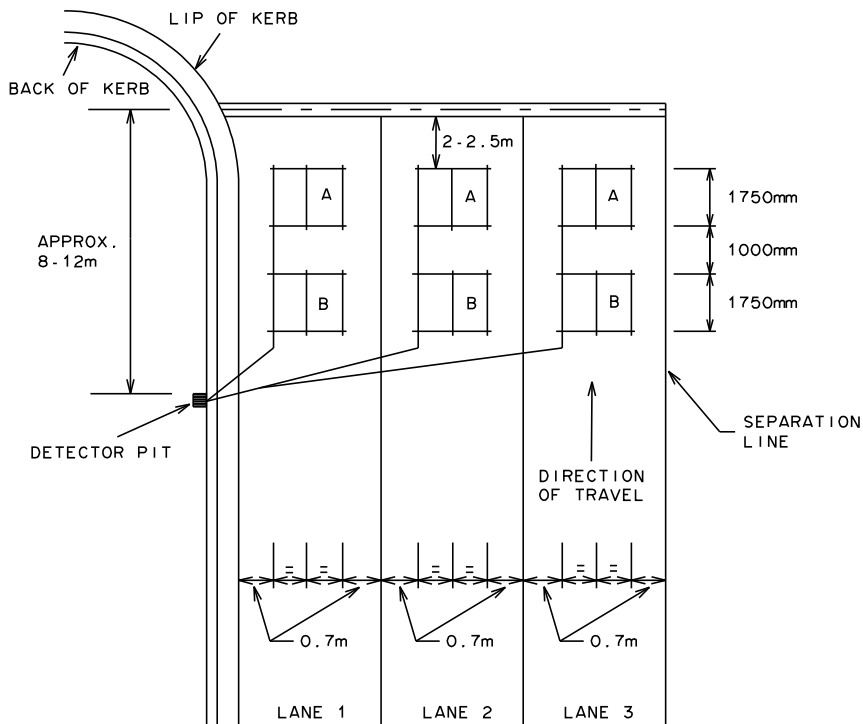


VicRoads Standard Drawings

Traffic signals – Detection (1300-1399)

Drawing No.	Title
TC-1300	A Loop pattern and installation details – Symmetripole loops
TC-1301	B Vehicle and tram detector loops along shared and exclusive lanes
TC-1302	A Wheelchair detector loops
TC-1303	Infinity Inductive Loop for Tram Track Installations
TC-1310	A Detector pit and lid
TC-1320	A Detector pit – Installation details
TC-1332	Advance tram detection – Feeder cable details
TC-1380	Concrete slab for tram detectors



NOTES

1. LOOP DETECTOR CABLE AND FEEDER CABLE SHALL BE JOINTED IN DETECTOR PIT. EACH JOINT MUST BE SEPARATELY INSULATED WITH AN APPROVED PERMANENT METHOD
2. ALL LOOP CABLE TERMINALS SHALL BE LABELLED WITH AN APPROVED PERMANENT MARKER IN THE FORMAT 9SA, 9FA, ETC. THE FIRST DIGITS OF THE LABEL MARK THE LOOP NUMBER AS SPECIFIED. THE LETTERS S AND F STAND FOR START AND FINISH RESPECTIVELY. THE LETTER A IDENTIFIES THE DOWNSTREAM LOOP AND THE LETTER B IDENTIFIES THE UPSTREAM LOOP.
3. ALL FEEDER CABLES SHALL BE LABELLED WITH APPROVED CABLE MARKERS WITH LOOP NUMBER.
4. THE LOOP CABLE SHALL BE CONTINUOUS BETWEEN TERMINALS.
5. LOOP CABLES SHALL BE INSTALLED IN NUMERIC ORDER AS SHOWN IN DETAIL A. ONE DOUBLE TURN OF CABLE SHALL BE INSTALLED FOR BOTH LOOP A AND LOOP B.
6. WHERE PAVEMENT SURFACE IS UNSUITABLE, LOOPS MAY BE SET BACK UP TO 4M FROM STOP LINE

E			
D			
C			
B			
A	S. B.	29/3/05	CHANGE CORNER OF SAWCUT & MODIFY SOME DIMENSIONS
AMEND.	Appd.	DATE	AMENDMENTS

GENERAL NOTES / CROSS REFERENCES
UNSPECIFIED DIMENSIONS ARE IN mm.

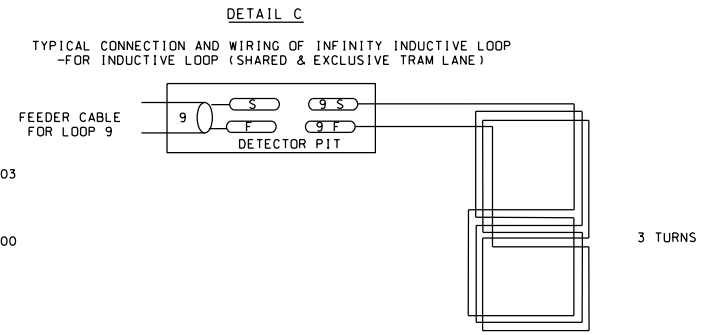
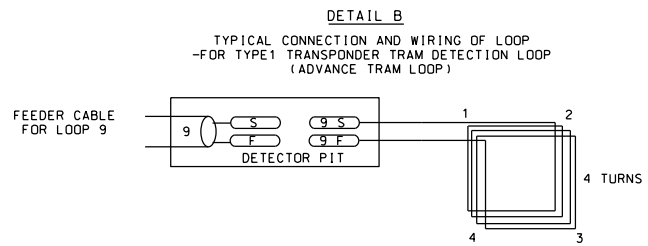
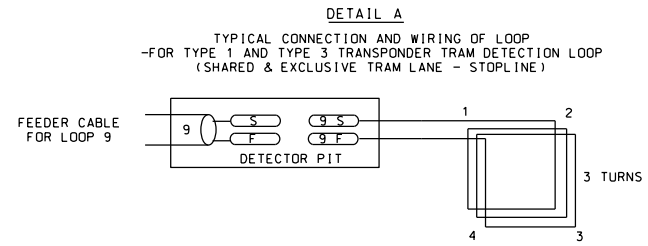
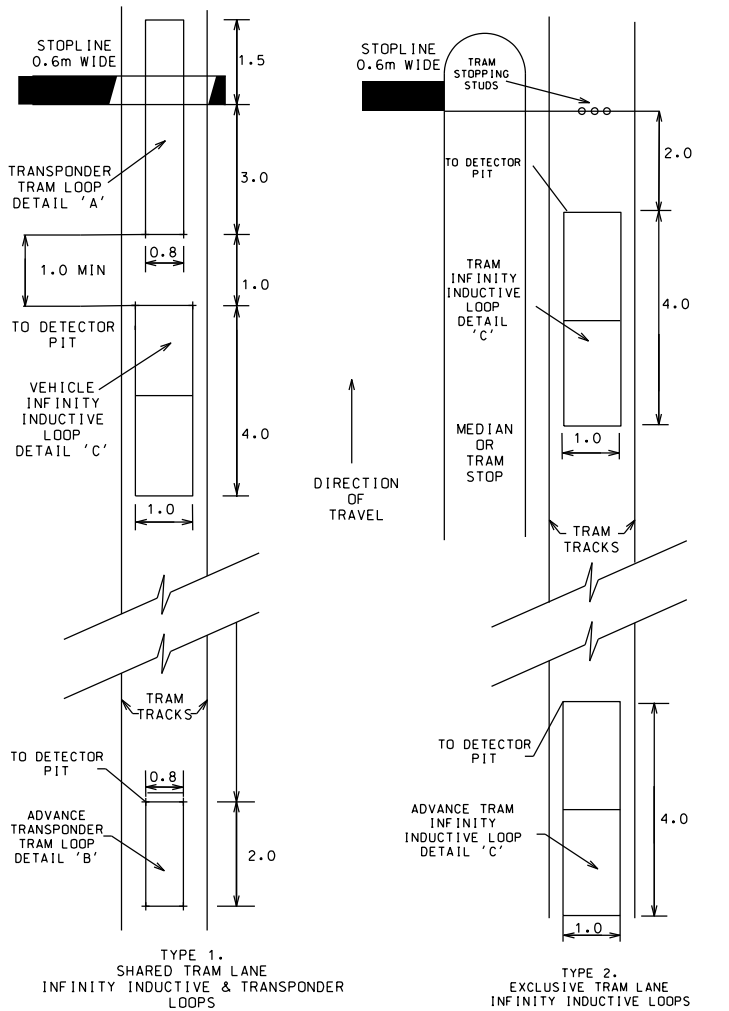


INTELLIGENT TRANSPORT
SYSTEMS GROUP

CHECKED	DATE	APPROVED	DATE	SPEC. REF.	SHEET No.	DRAWING No.	AMENDMENT
J. RANDALL	21/12/95	B. HEARN	21/12/95			TC-1300	A

THIS DRAWING SUPERSEDES NO 85 5606B

STANDARD DRAWING
LOOP PATTERN AND INSTALLATION DETAILS
SYMMETRIPOLE



- NOTES**
1. FOR DETAIL 'C' INFINITY INDUCTIVE LOOP DETAILS REFER TO TC-1303
 2. WHERE SYMMETRIPOLE LOOPS ARE INSTALLED ADJACENT TO TRAM DETECTION LOOPS, THE SYMMETRIPOLE LOOPS SHALL BE INSTALLED IN ACCORDANCE WITH TC-1300.
 3. ALL LOOP LEAD-INS SHALL BE INSTALLED IN ACCORDANCE WITH TC-1300
 4. FOR DETAILS OF DETECTOR PIT INSTALLATION REFER TO TC-1320
 5. THE MAXIMUM LENGTH OF ANY INDIVIDUAL DETECTOR FEEDER CABLE SHALL NOT EXCEED 200 METRES

E				
D				
C				
B	Z S	04 08 22	Include infinity loop	
A	S B	29 03 05	Remove diagonal cut from corner of loop slot	
ISSUE	APP'D	DATE	AMENDMENT	

GENERAL NOTES /CROSS REFERENCE
UNSPECIFIED DIMENSIONS ARE IN mm

DESIGNED
Z S JUL 22

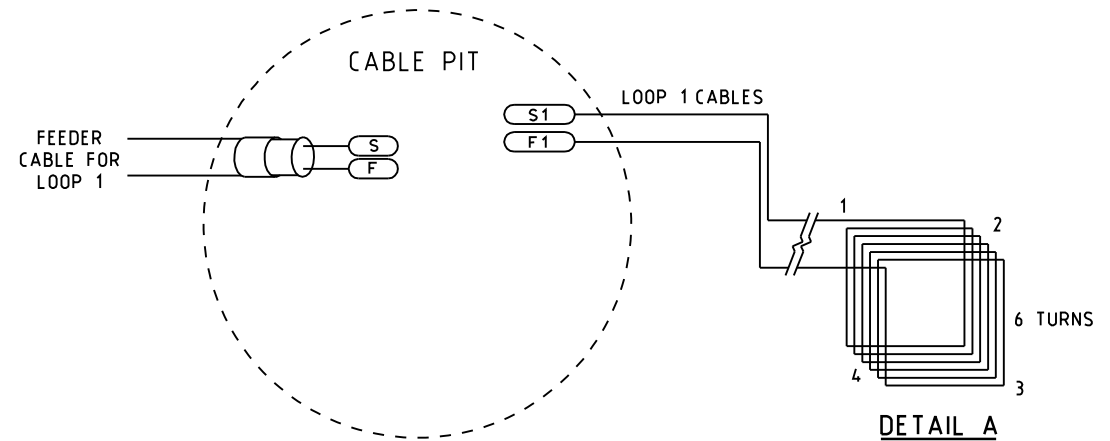
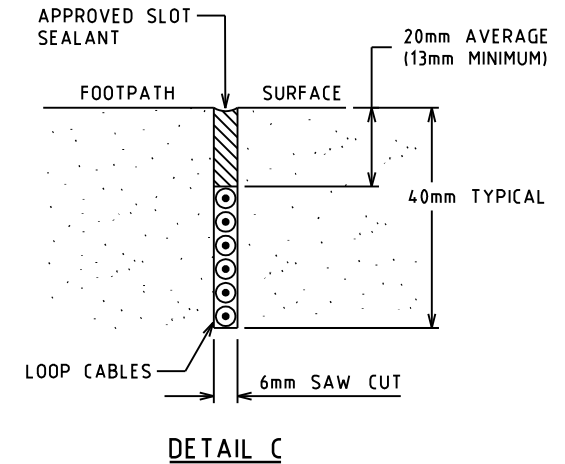
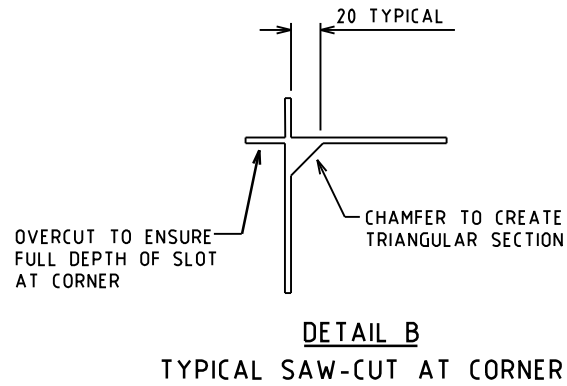
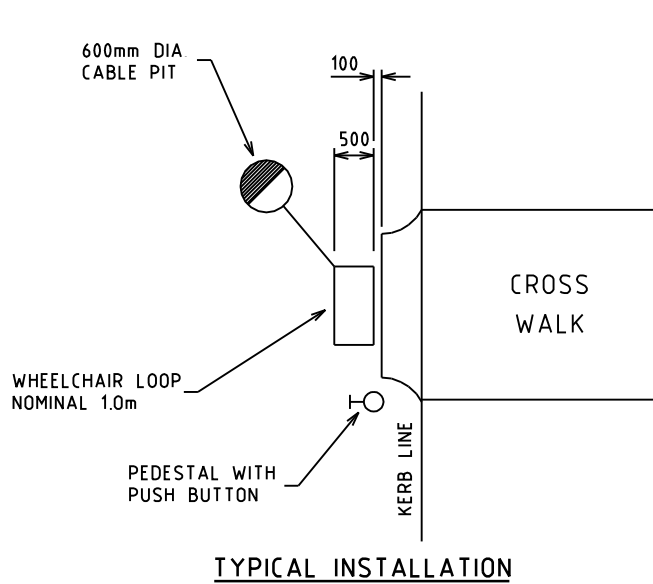
APPROVED
C C AUG 22

CAT.
PROJ.
FILE:

SCALE OF METRES

VEHICLE AND TRAM DETECTOR LOOPS
ALONG SHARED AND EXCLUSIVE TRAM LANES

FILE NO	CONTRACT NO	SHEET NO	DRAWING NO TC-1301	ISSUE B
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TYPICAL WIRING AND CONNECTION OF LOOPS

LOOP CABLES SHALL BE INSTALLED AND FOLLOW THROUGH THE SAW CUTS IN NUMERIC ORDER AS SHOWN IN DETAIL A TO CONNECT UP THE COMPLETE LOOP, THE FEEDER CABLE AND LOOP CABLE TERMINALS SHALL BE CONNECTED AS FOLLOWS.
6 TURN LOOP S1 TO S, F1 TO F.

NOTES:

- 1 LOOP DETECTOR CABLE AND FEEDER CABLE SHALL BE JOINTED IN THE NEAREST CABLE PIT (LOOP DETECTOR PIT MAY BE USED IF APPROPRIATE).
- 2 ALL LOOP CABLE TERMINALS SHALL BE LABELLED WITH CABLE MARKERS, S1, F1, ETC THE DIGITS OF THE LABEL MARKS THE LOOP NUMBER AS SPECIFIED ON THE AUTHORITY PLAN THE LETTERS S AND F STAND FOR START AND FINISH RESPECTIVELY.
- 3 ALL FEEDER CABLES SHALL BE LABELLED WITH HELAGRIP CABLE MARKERS AS PER LOOP NUMBER SPECIFIED ON THE AUTHORITY PLAN.
- 4 THE LOOP CABLE SHALL BE CONTINUOUS (I.E NO JOINTS PERMITTED) BETWEEN TERMINALS

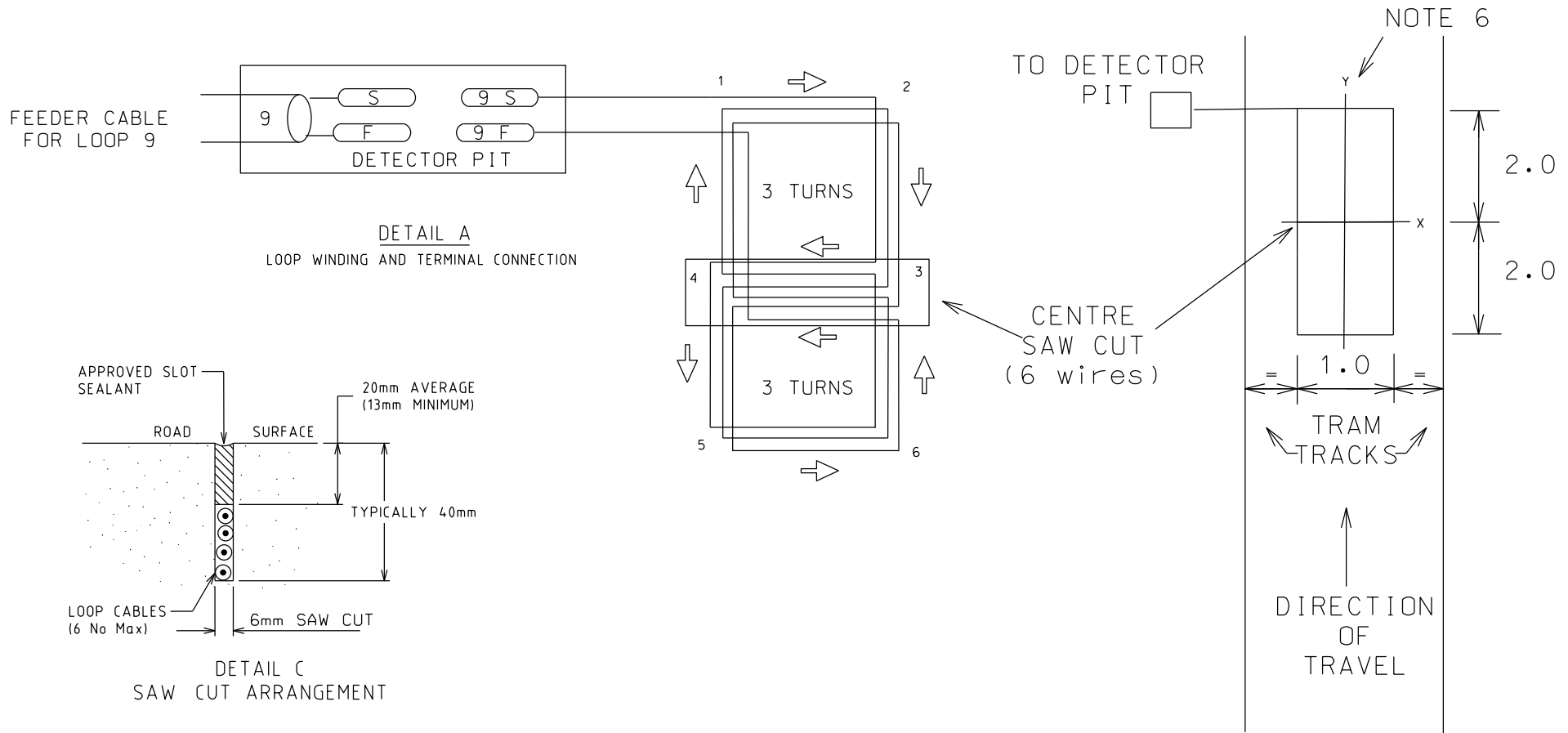
E			
D			
C			
B			
A	S.B.	29/03/05	MODIFY REQUIREMENTS FOR CORNER OF SAW CUT
AMEND.	Appd.	DATE	AMENDMENTS

GENERAL NOTES / CROSS REFERENCES
UNSPECIFIED DIMENSIONS ARE IN mm.



INTELLIGENT TRANSPORT
SYSTEMS GROUP

STANDARD DRAWING					
WHEELCHAIR DETECTOR LOOPS					
CHECKED	DATE	APPROVED	DATE	SPEC. REF.	SHEET No.
S. Purill	18/6/04	S. Beon	14/7/04		
MANAGER ITS				DRAWING No.	AMENDMENT
				TC-1302	A



NOTES

1. LOOP DETECTOR CABLE AND FEEDER CABLE SHALL BE JOINTED IN DETECTOR PIT. EACH JOINT MUST BE SEPARATELY INSULATED WITH AN APPROVED PERMANENT METHOD
2. ALL LOOP CABLE TERMINALS SHALL BE LABELLED WITH AN APPROVED PERMANENT MARKER IN THE FORMAT 9SA, 9FA, ETC. THE FIRST DIGITS OF THE LABEL MARK THE LOOP NUMBER AS SPECIFIED.
THE LETTERS S AND F STAND FOR START AND FINISH RESPECTIVELY.
3. ALL FEEDER CABLES SHALL BE LABELLED WITH APPROVED CABLE MARKERS WITH LOOP NUMBER.
4. THE LOOP CABLE SHALL BE CONTINUOUS BETWEEN TERMINALS.
5. LOOPS SHALL BE CUT EQUIDISTANTLY FROM THE TWO TRAM TRACKS
6. LOOPS SHALL BE CUT SYMMETRICALLY IN RELATION TO THE HORIZONTAL AND VERTICAL CENTRAL AXES
7. THIS LOOP SHALL BE USED FOR TRAM AND VEHICLE DETECTION ARRANGEMENTS OUTLINED IN STANDARD DRAWING TC-1301
8. THIS LOOP SHALL BE USED AS CANCELLING LOOP FOR TRAMS

E				
D				
C				
B				
A				
ISSUE	APP'D	DATE	AMENDMENT	

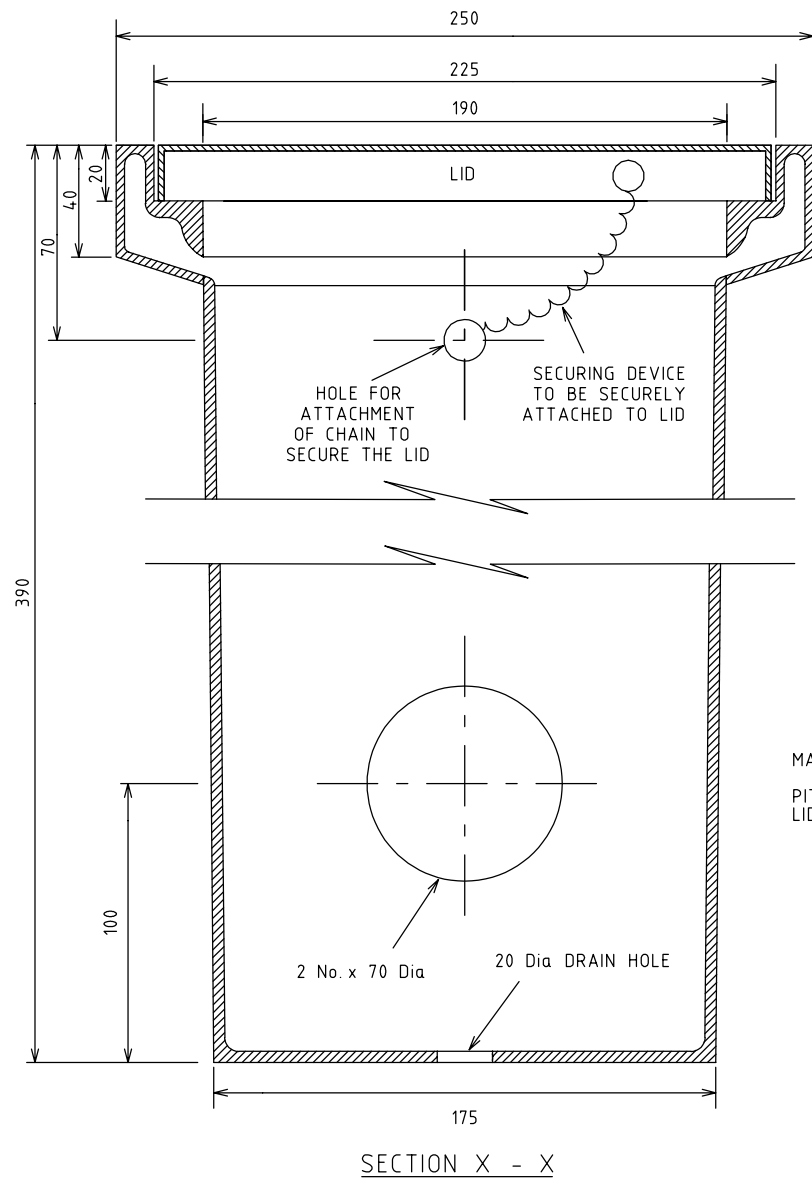
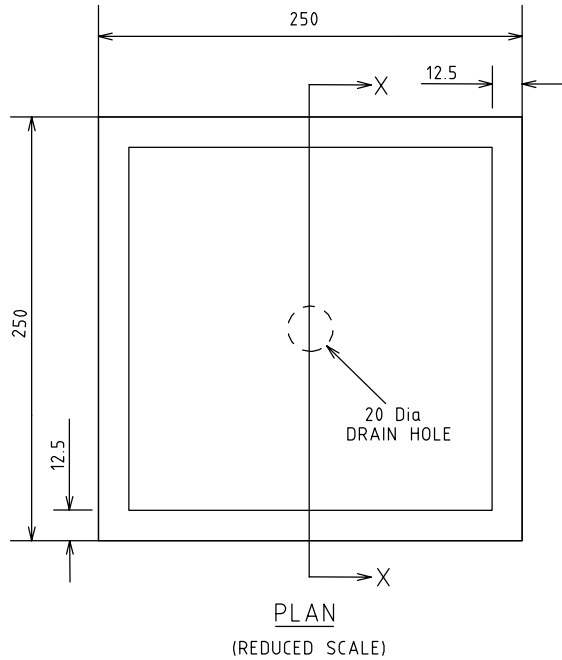
GENERAL NOTES /CROSS REFERENCES
UNSPECIFIED DIMENSIONS ARE IN mm

DESIGNED Z S JUL 2022
APPROVED C C AUG 2022
CAT: PROJ: FILE:



SCALE OF METRES
HOR
VER

LOOP PATTERN AND INSTALLATION DETAILS INFINITY INDUCTIVE LOOP FOR TRAM TRACK INSTALLATIONS				
FILE NO	CONTRACT NO	SHEET NO	DRAWING NO TC-1303	ISSUE



MATERIALS:
 PIT: - BLACK POLYETHYLENE
 LID: - ALUMINIUM

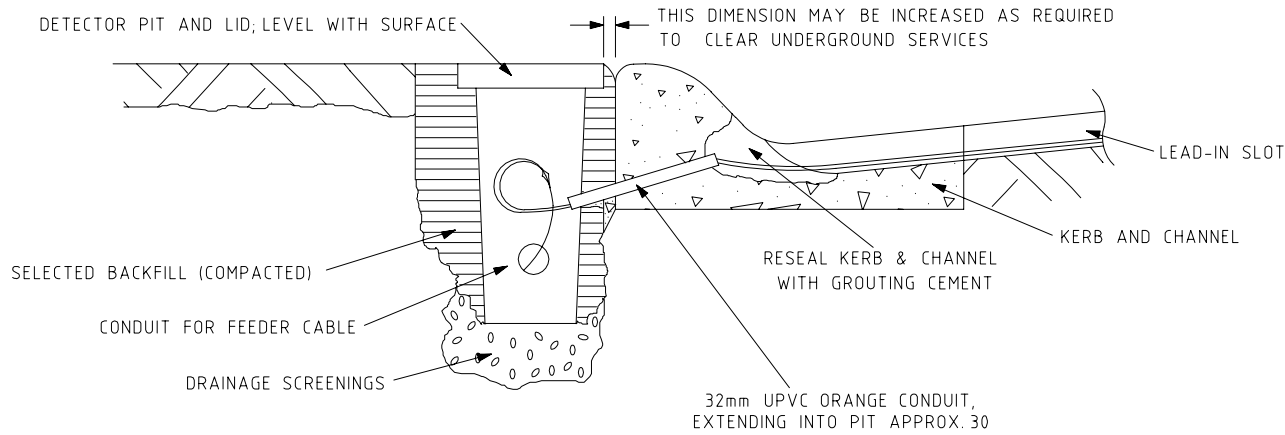
E			
D			
C			
B			
A	J.R.	27/8/96	MIN No. OF LUGS DELETED
AMEND.	Appd.	DATE	AMENDMENTS

GENERAL NOTES / CROSS REFERENCES
 1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

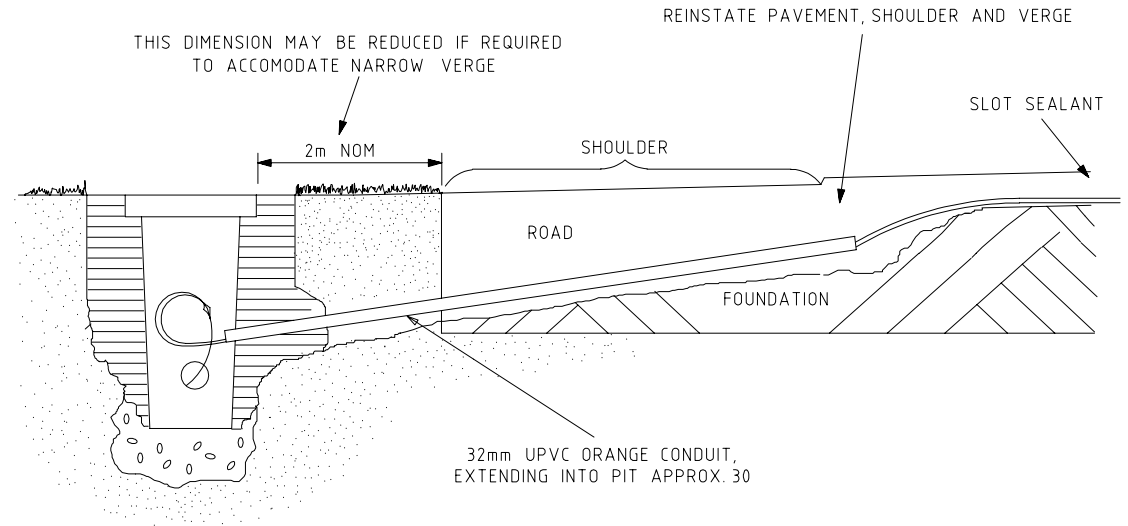
vicroads
 TRAFFIC AND ROAD USE
 MANAGEMENT DEPARTMENT

STANDARD DRAWING
 DETECTOR PIT AND LID

TRAFFIC SYSTEM OPERATION	CHECKED DATE J. RANDALL 14/8/96	APPROVED DATE B. HEARN 14/8/96 T.S.O. MANAGER	SPEC. REF.	SHEET No.	DRAWING No. TC-1310	AMENDMENT A
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INSTALLATION BEHIND KERB



INSTALLATION IN VERGE

E			
D			
C			
B			
A	JR	22/8/96	REDUCED SETBACK FOR NARROW VERGE
AMEND.	Appd.	Date	AMENDMENTS

GENERAL NOTES / CROSS REFERENCES
 UNSPECIFIED DIMENSIONS ARE IN mm.
 THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE INSTALLATION SPECIFICATION.
 TC-1310 DETECTOR PIT



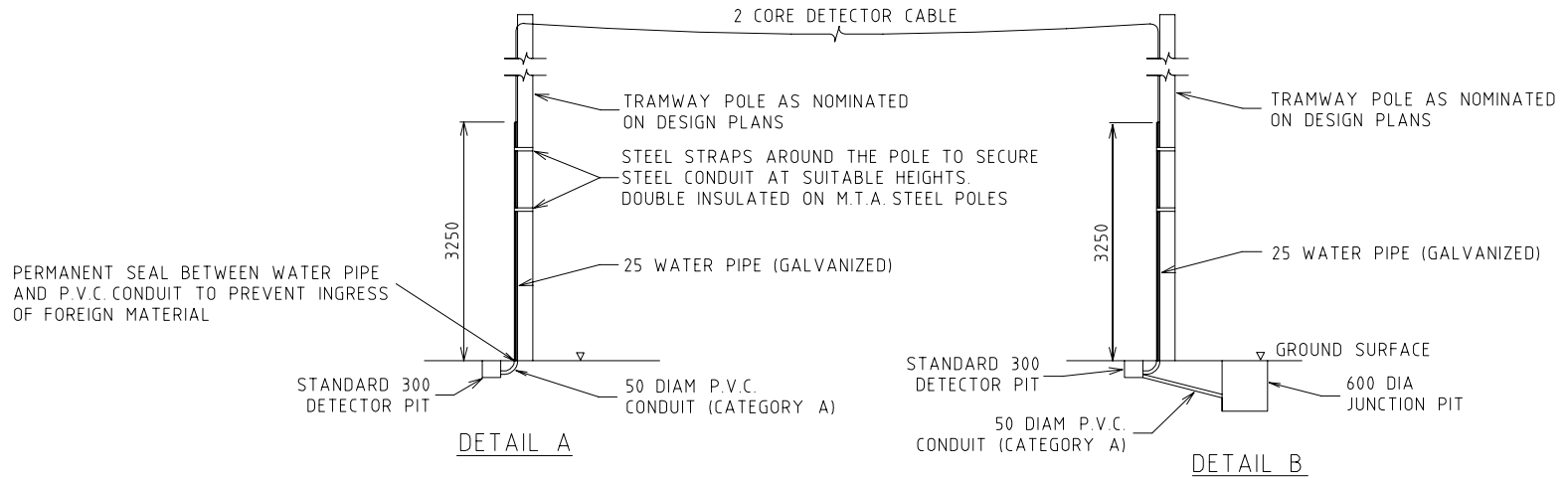
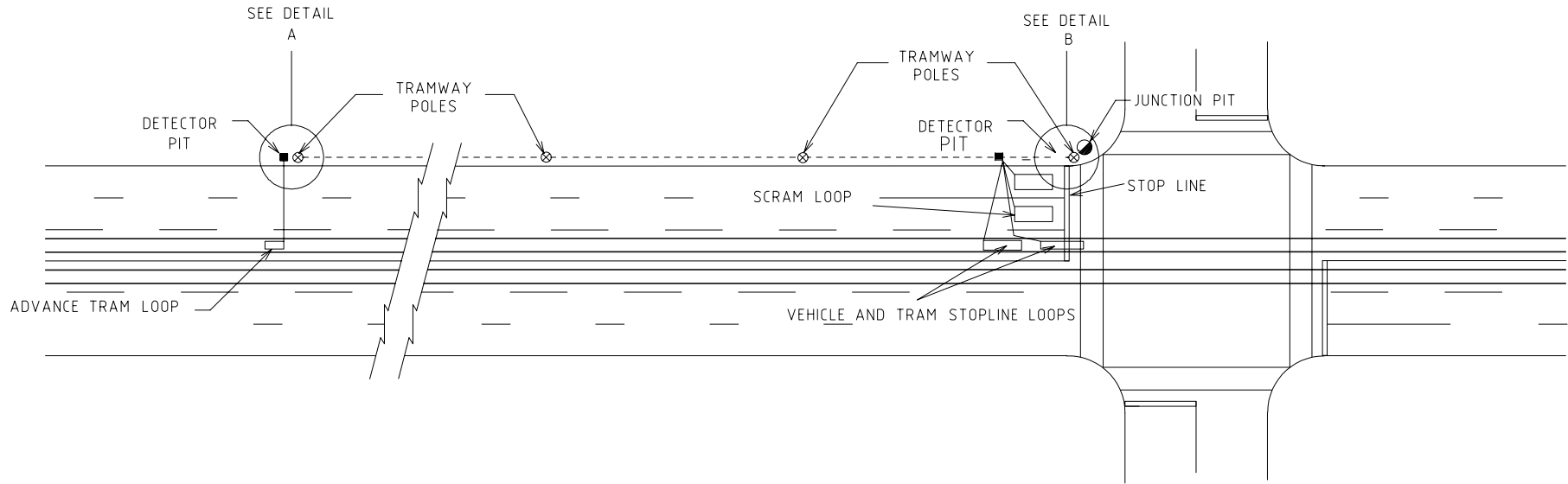
TRAFFIC AND ROAD USE
 MANAGEMENT DEPARTMENT

STANDARD DRAWING FOR TRAFFIC SIGNALS

DETECTOR PIT
 INSTALLATION DETAILS

TRAFFIC SYSTEM OPERATION

CHECKED DATE J. RANDALL 21/12/95	APPROVED DATE B. HEARN 21/12/95 T.S.O. MANAGER	SPEC. REF.	SHEET No.	DRAWING No. TC-1320	AMENDMENT A
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E			
D			
C			
B			
A	BH	22/05/2001	LEADINS REAR OF LOOPS
AMEND.	Appd.	DATE	AMENDMENTS

GENERAL NOTES / CROSS REFERENCES
UNSPECIFIED DIMENSIONS ARE IN mm.

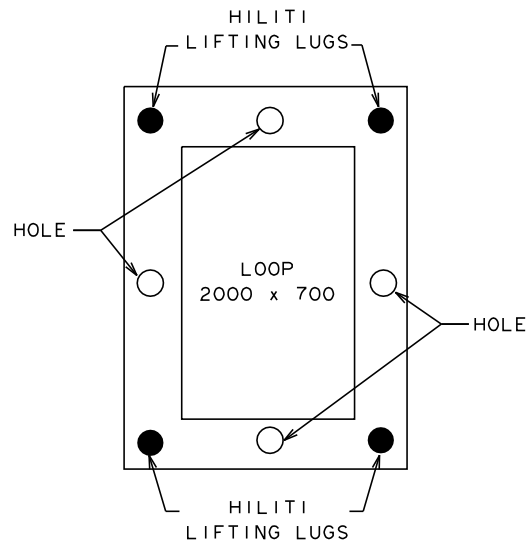
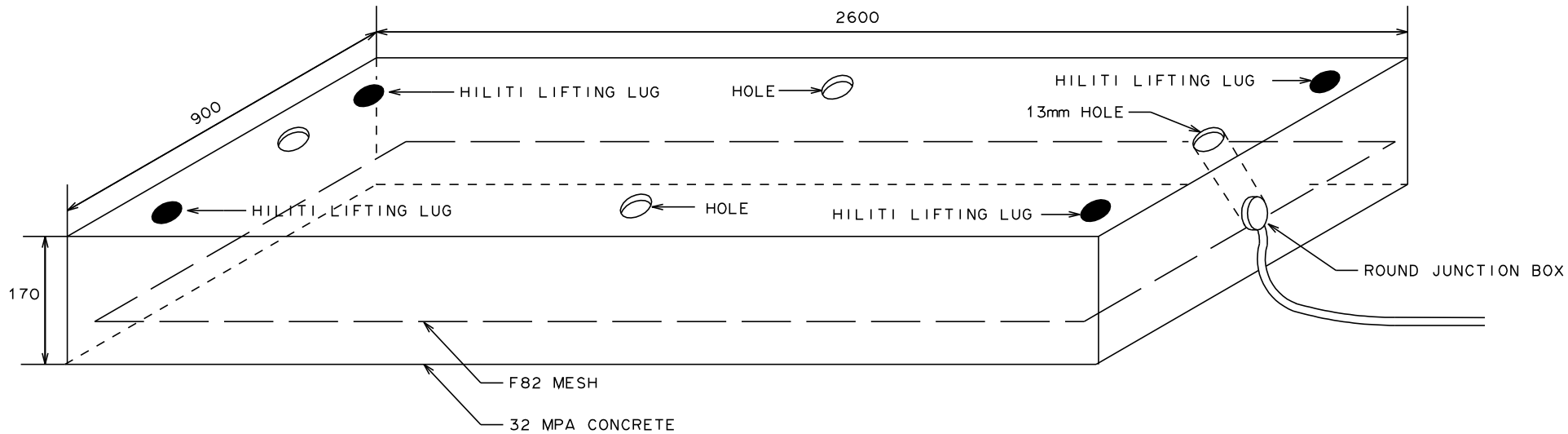
visroads
TRAFFIC AND ROAD USE
MANAGEMENT DEPARTMENT

TRAFFIC SYSTEM OPERATION

STANDARD DRAWING

ADVANCE TRAM DETECTION
(FEEDER CABLE DETAILS)

CHECKED	DATE	APPROVED	DATE	SPEC. REF.	SHEET No.	DRAWING No.	AMENDMENT
		T.S.O. MANAGER				TC-1332	



NOTE: LOOP CABLE IS PROTECTED BY 20mm FLEX CONDUIT

E			
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C			
B			
A			
AMEND.	Appd.	DATE	AMENDMENTS

GENERAL NOTES / CROSS REFERENCES
UNSPECIFIED DIMENSIONS ARE IN mm.

vikroads

INTELLIGENT TRANSPORT
SYSTEMS GROUP

STANDARD DRAWING							
CONCRETE SLAB FOR TRAM DETECTORS							
CHECKED DATE	APPROVED DATE	SPEC. REF.	SHEET No.	DRAWING No.	AMENDMENT		
S.P. 7/1/2002	K.W. 7/1/2002 MANAGER ITS			TC-1380			