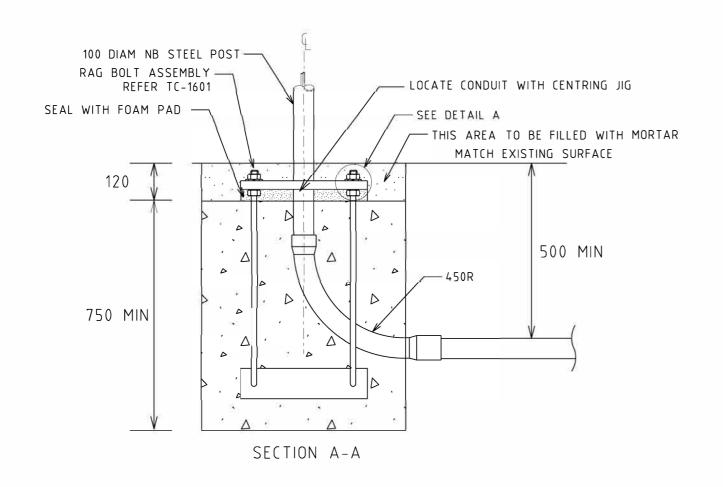
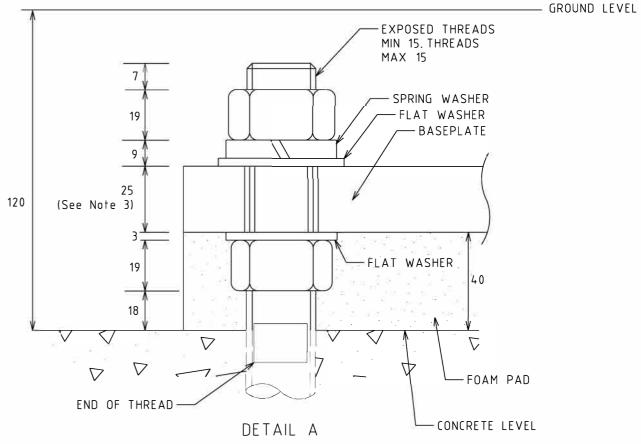
# VicRoads (DTP) Standard Drawings

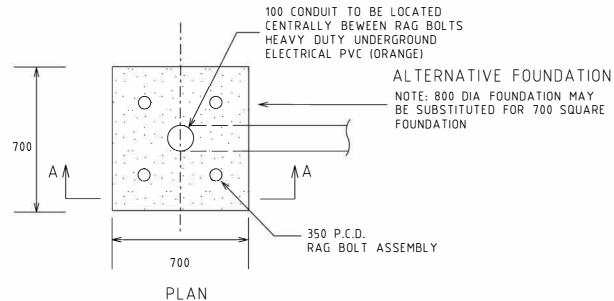
Traffic signals – Civil and Electrical (1200-1299)

Drawing N	0.	Title
TC-1200	C	Foundation for pedestals – Currently under review
TC-1201	В	Bored pile foundation for MA, JUP and JUMA - Currently under review
TC-1202	A	Spread footing foundation for MA, JUP and JUMA - Currently under review
TC-1203	D	Controller foundation details
TC-1204	В	51 core cable connections for intersections
TC-1205	D	19 and 29 core cable connections for pedestrian operated signals
TC-1206	A	Consumers mains and meter box – Assembly and installation
TC-1207	Е	Traffic signal ducting – general layout
TC-1208		Withdrawn
TC-1210		Cable pit former – 600mm diameter
TC-1211	A	Heavy duty cable pit and cover
TC-1212		Withdrawn
TC-1214	A	Dual 51 core terminations for complex or large intersection - Suitable arrangement
TC-1215	A	Dual 51 core terminations for diamond intersection
TC-1216		Emergency Station Panel
TC-1217		Shallow conduit warning sign
TC-1220	D	Cable pit access cover and frame – 600mm diameter
TC-1230	C	Cable pit installation details
TC-1231		Rag bolt assembly – M24 CG and HS 600mm x 350mm PCD (supersedes TC-1601)
TC-1232		Rag bolt assembly for cabinet – M12 600mm x 460mm x 255mm (supersedes TC-1603)
TC-1233		750mm cable pit installation details





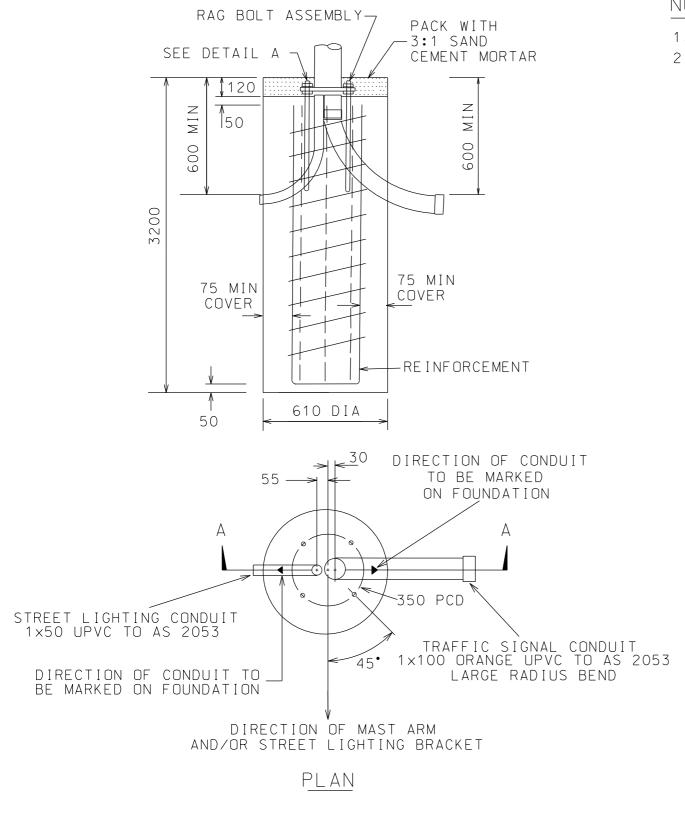




### GENERAL NOTES

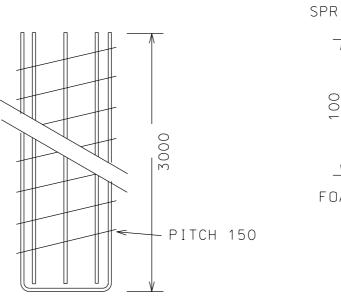
- 1. CONCRETE STRENGTH GRADE SHALL BE N32 TO THE REQUIREMENTS OF AS-1379 "SPECIFICATION AND SUPPLY OF CONCRETE".
- 2. THREADED PORTION OF ALL RAG BOLTS TO BE COATED WITH GRAPHITE GREASE OR SIMILAR BEFORE ASSEMBLY.
- 3. BASE PLATE WILL BE 16MM FOR 2A, 2B AND TYPE 3 PEDESTALS

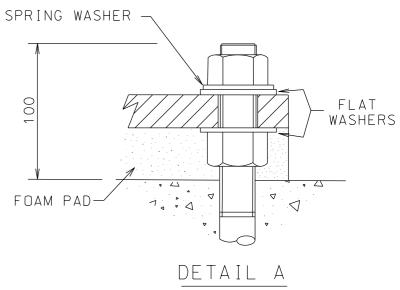
	š			GENERAL NOTES/CROSS REFERENCES UNSPECIFIED DIMENSIONS ARE IN mm	INTELLIGENT TRANSPORT	CHECKED L.FRENCH 13/10/00	-		STAND	OARD DRAWING		
C		_	ADDITION OF FOAM PAD.	1. ALL DRAWINGS NOT TO SCALE	SYSTEMS	APPROVED B.HEARN 13/10/00	vicroads			NDATION		
В	SP	4/3/13	CONDUIT DEPTH INCREASED.		KEW,	D.HEARN 137 107 00			FUR P	PEDESTA	LS	
Α	SP	1/6/14	REVIEW DIMENSIONS (16mm BASE PLATE).		VICTORIA, 3101 PHONE (03) 9854 2111	CAT:	SCALE OF METRES HOR NOT TO SCALE	FILE NO.	SPEC. REF.	SHEET NO.	DRAWING NO. A	AMEND.
AMEND.	APP'D	DATE	AMENDMENT		FAX (03) 9854 2319		VER				TC-1200	

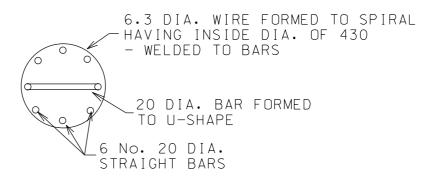


# NOTES:

- 1. TRAFFIC SIGNAL AND STREET LIGHTING CONDUITS TO BE ALIGNED AS REQUIRED
- 2. CONCRETE STRENGTH GRADE SHALL BE N32 TO THE REQUIREMENTS OF AS 1379 "SPECIFICATION AND SUPPLY OF CONCRETE.



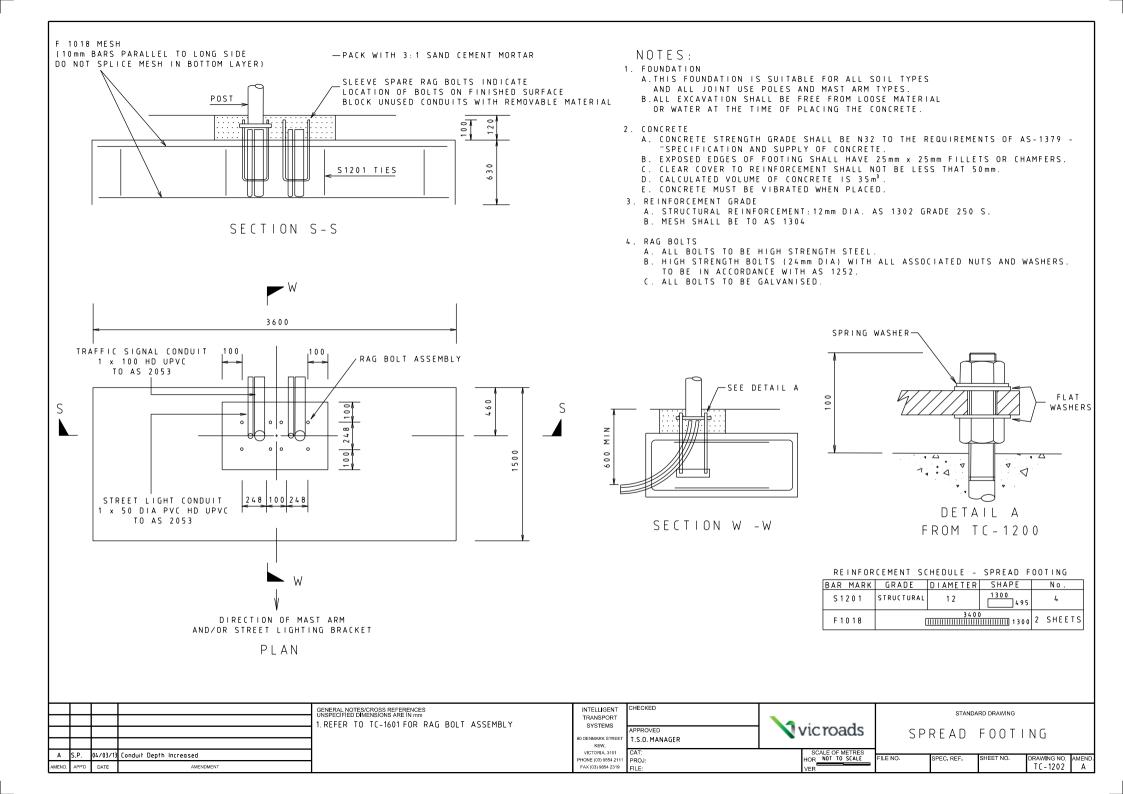


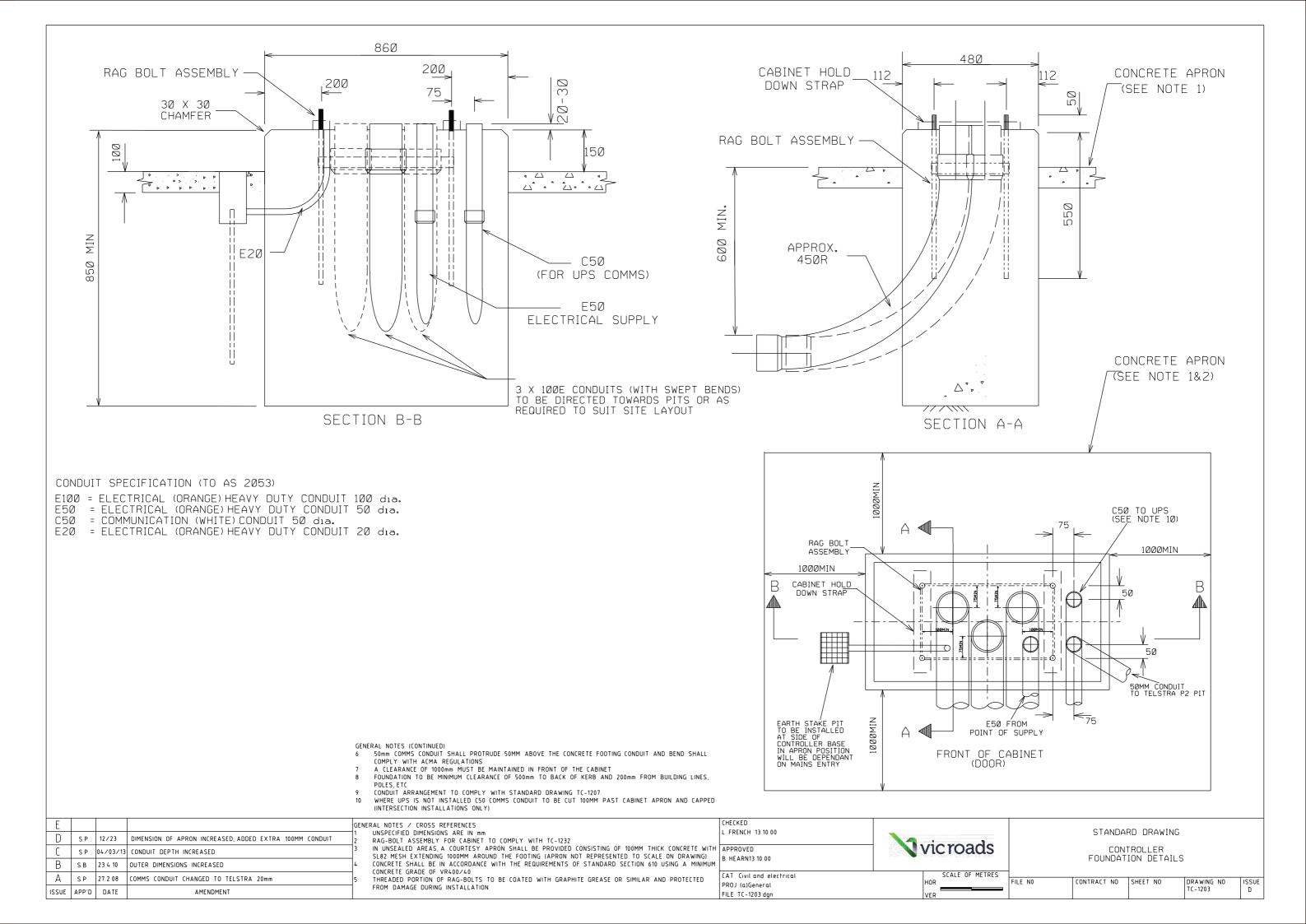


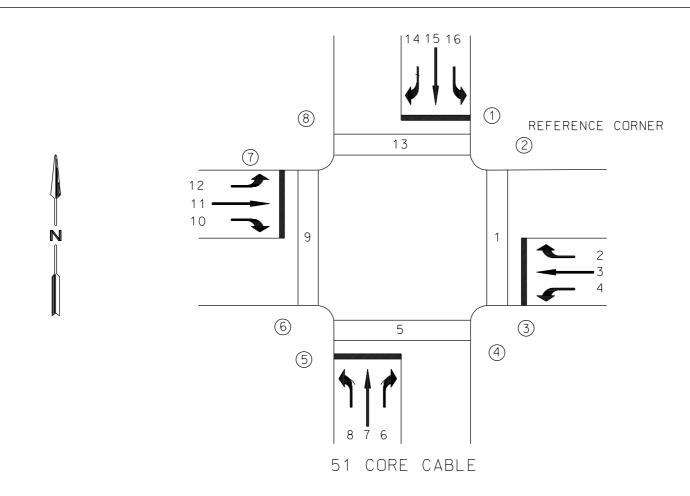
PILE DEPTH	CONCRETE VOLUME m <sup>3</sup>	POLE TYPE	RAG BOLTS (TC-1601)
3220	0.9	JUMA JUP MA	HIGH STRENGTH

TABLE 1

E			GENERAL NOTES/CROSS REFERENCES ALL DIMENSIONS ARE IN mm	CHECKED L FRENCH 13 10 00		S	ANDARD DRAWIN	3	
C B S.P.	1/6/14	ADDITION OF FOAM PAD		APPROVED B HEARN 13 10 00 T S O MANAGER	Vicroads	l M	BORED PILE FOR A, JUP AND JUMA	4	
A S.P.	4/3/13	CONDUIT DEPTH INCREASED		CAT: Civil and electrical PROJ: (a)General	SCALE OF METRES	FILE NO. CONTRA	T NO. SHEET NO.		ISSUE
AMEND APP'D	DATE	AMENDMENT		FILE: TC-1201.dgn	VER			TC - 1201.	В







CORE NO.	FIELD G	ROUP	CORE NO.	FIELD GRO	IUP	CORE NO.	FIELD GROUP		
1	RED	V3	17	YELLOW	٧6	33			
2	YELLOW	V3	18	GREEN	٧6	34			
3	GREEN	V3	19	RED	V10	35			
4	RED	٧7	20	YELLOW	V10	36			
5	YELLOW	V 7	21	GREEN	V10	37			
6	GREEN	٧7	22	RED	V14	38			
7	RED	V11	23	YELLOW	V14	39	DIMMING CONTROL		
8	YELLOW	V11	24	GREEN	V14	40	PERM. ACTIVE		
9	GREEN	V11	25	DON'T WALK	1	41	CALL RECORD 13		
10	RED	V15	26	WALK	1	42	CALL 13		
11	YELLOW	V15	27	DON'T WALK	5	43	CALL RECORD 9		
12	GREEN	V15	28	WALK	5	44	CALL 9		
13	RED	٧2	29	DON'T WALK	9	45	CALL RECORD 5		
14	YELLOW	٧2	30	WALK	9	46	CALL5		
15	GREEN	٧2	31	DON'T WALK	13	47	CALL RECORD 1		
16	RED	٧6	32	WALK	13	48	CALL 1		
GREY - ELV RETURN			BLACK-	BLACK - NEUTRAL			GREEN & YELLOW- EARTH		

### INTERSECTION SIGNALS

### D B S.P. 12/23 DIMMING CONTROL WIRE ADDED A S.P. 7/08/03 ADD PERMANENT ACTIVE CORE 40 ISSUE APP'D DATE AMENDMENT

GENERAL NOTES / CROSS REFERENCES UNSPECIFIED DIMENSIONS ARE IN mm

### DESIGNED vicroads APPROVED MANAGER ITS CAT: Civil and electrical PROJ: (a)General

FILE: TC-1204.dgn

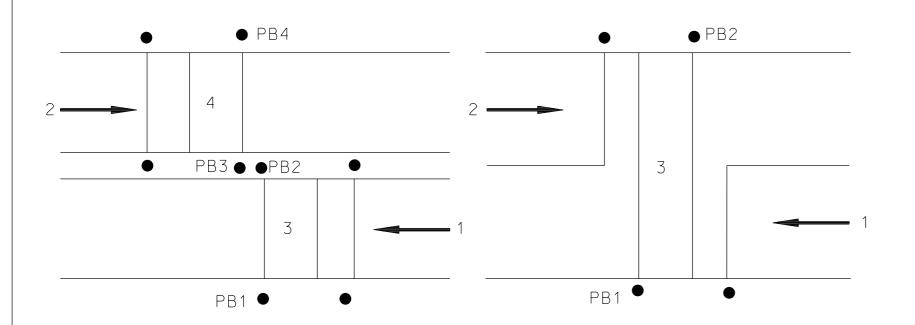
STANDARD DRAWING 51 CORE FOR INTERSECTIONS SINGLE RING CIRCUIT

CONTRACT NO. SHEET NO.

DRAWING NO TC-1204 ISSUE

NOTES:

- 1. WHERE SPARE CORES ARE ALLOCATED FOR A SPECIFIC PURPOSE SUCH SHALL BE RECORDED ON DTP SITE PLAN ONE COPY REMAINING IN THE CONTROLLER AND TWO COPIES TO BE SUPPLIED TO DTP.
- 2. GROUPS NOT ALLOCATED TO CORES 1 32 ON 51 CORE CABLE SHALL BE IDENTIFIED IN CLOCKWISE ORDER FROM THE REFERENCE CORNER AND ALLOCATED SEPARATE CORES BEGINING FROM CORE 33.
- 3. DIMMING CONTROL CORE 39 FOR USE WITH ELV ONLY.



	STANDARD CABLE CONNECTIONS									
		29 CO	IRE							
CORE No	FUNCTION		CORE No	FUNCTION						
1	RED	V1	16							
2	YELLOW	V 1	17							
3	GREEN	V1	18							
4	RED	٧2	19	DIMMING CONTROL						
5	5 YELLOW		20	PERM ACTIVE						
6	GREEN	٧2	21	CALL RECORD 4						
7	PED. RED	3	22	CALL RECORD 3						
8	PED. GREEN	3	23	CALL 4 PB4						
9	PED. RED	4	24	CALL 4 PB3						
10	PED. GREEN	4	25	CALL 3 PB2						
11			26	CALL 3 PB1						
12			GREY	ELV RETURN						
13			BLACK	NEUTRAL						
14			GREEN &	EARTH						
15			YELLOW	LANIII						

## NOTES:

- 1. WHERE SPARE CORES ARE ALLOCATED FOR A SPECIFIC PURPOSE, SUCH SHALL BE DOCUMENTED ONE COPY REMAINING IN THE CONTROLLER AND TWO COPIES TO BE SUPPLIED TO DTP
- 2. DIMMING CONTROL CORE 19 FOR USE WITH ELV ONLY

Ē				GENERAL NOTES / CROSS REFERENCES
D	S.P.	12/23	REMOVE 19 CORE AND ADD DIMMING CONTROL CORE	UNSPECIFIED DIMENSIONS ARE IN mm
(		05/05/05	GENERAL REVIEW	
В	D Z	12/09/03	2 SEPARATE VEHICLE GROUPS FOR 19 CORE CONNECTION	
А	D.E.	22/07/03	13 CORE CABLE REPLACED WITH 19 CORE CABLE	
ISSUE	APP'D	DATE	AMENDMENT	
	•			

CHECKED L. FRENCH 22.05.01 APPROVED B. HEARN 22.05.01 MANAGER ITS
CAT: Civil and electrical

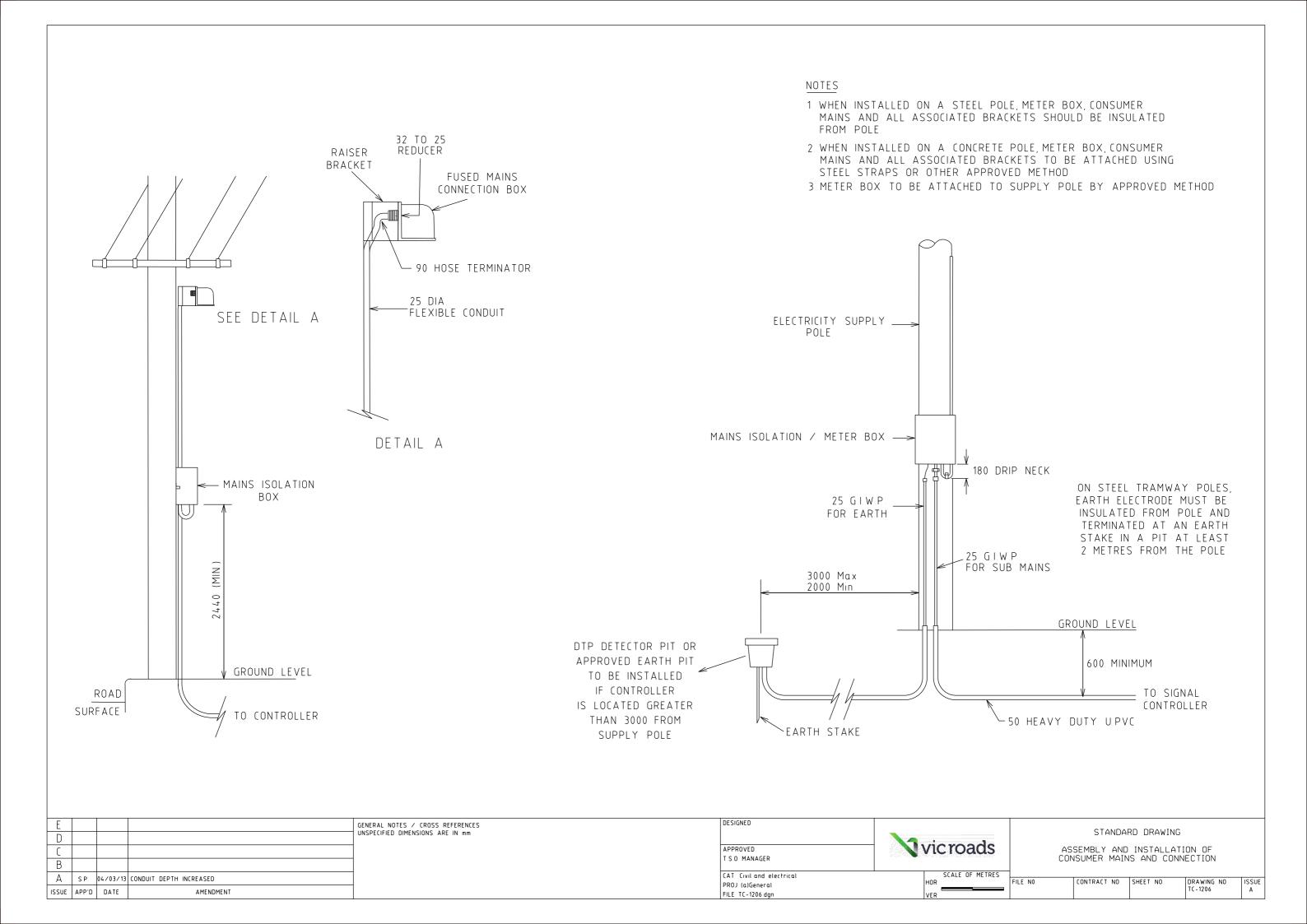
STANDARD DRAWING

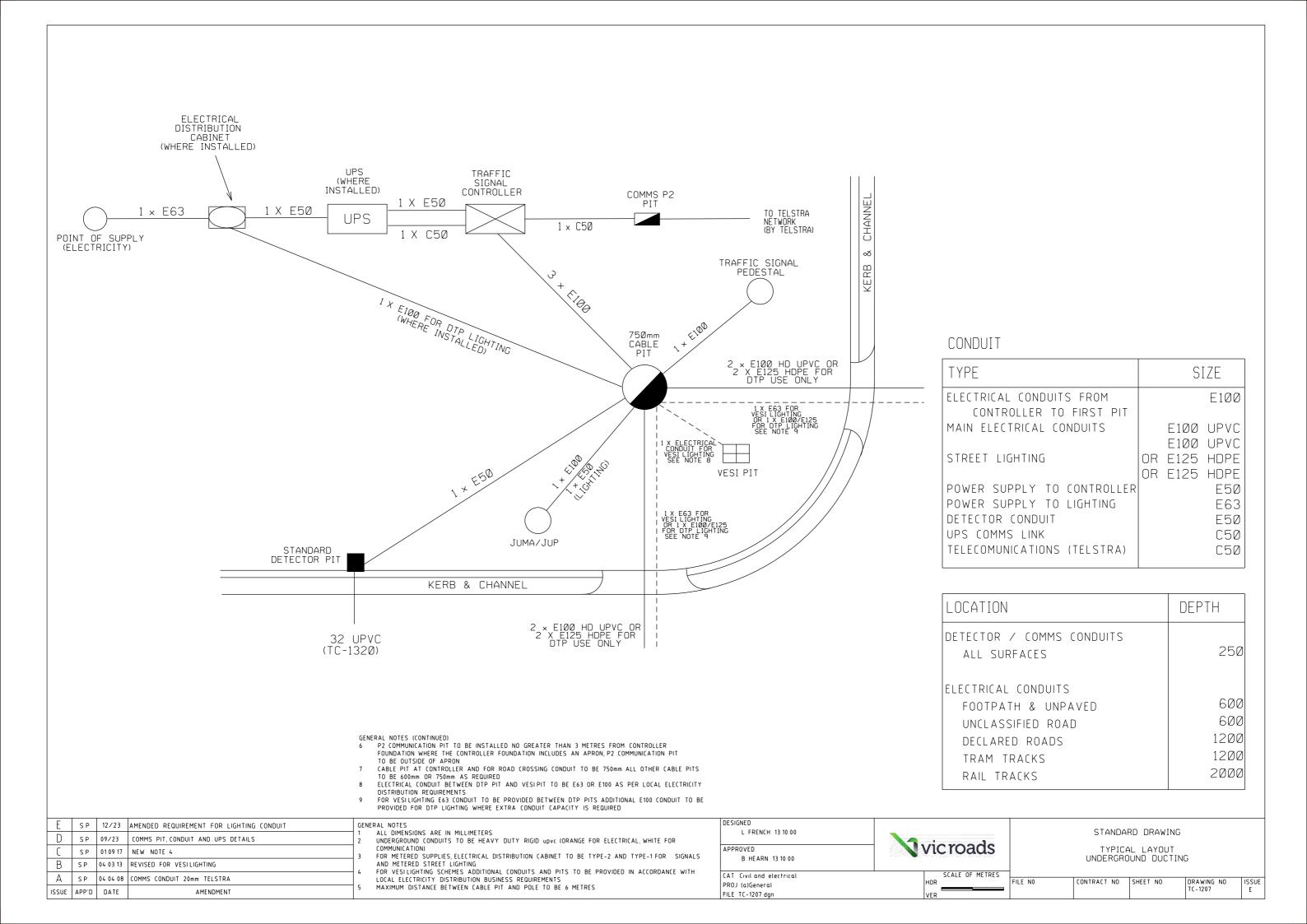
vicroads 29 CORE FOR PEDESTRIAN OPERATED SIGNALS

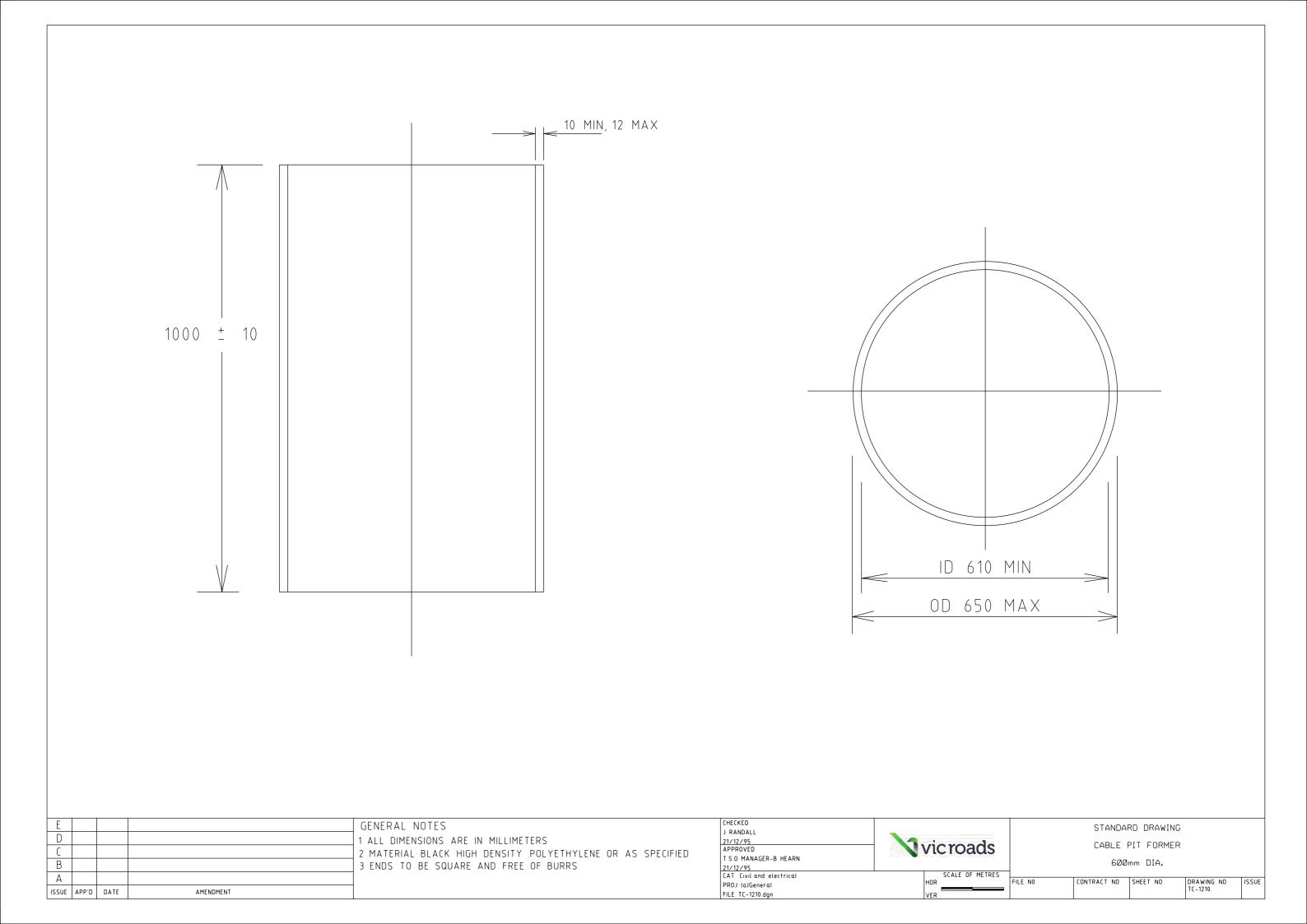
CONTRACT NO. SHEET NO. DRAWING NO TC-1205.

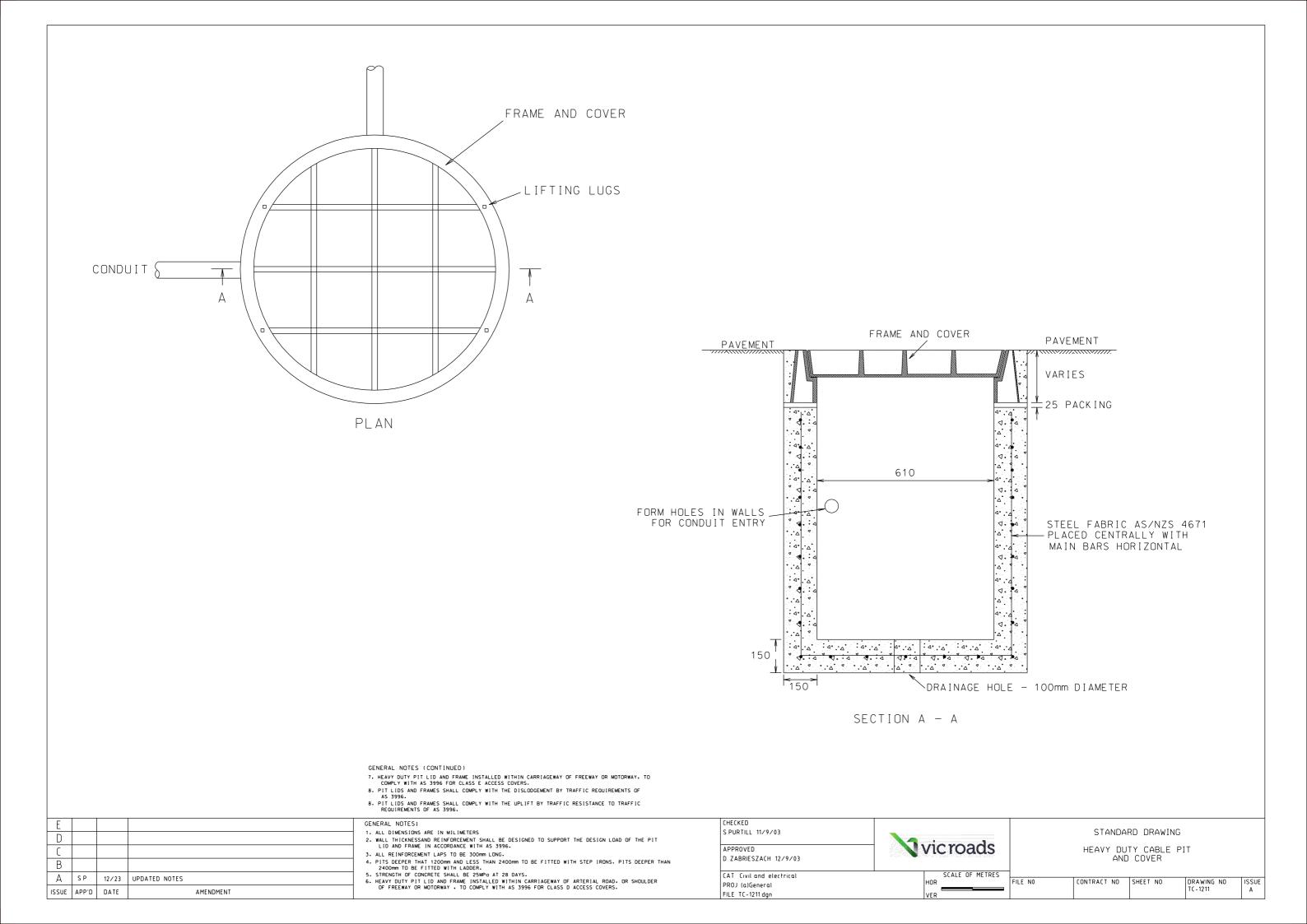
ISSUE D

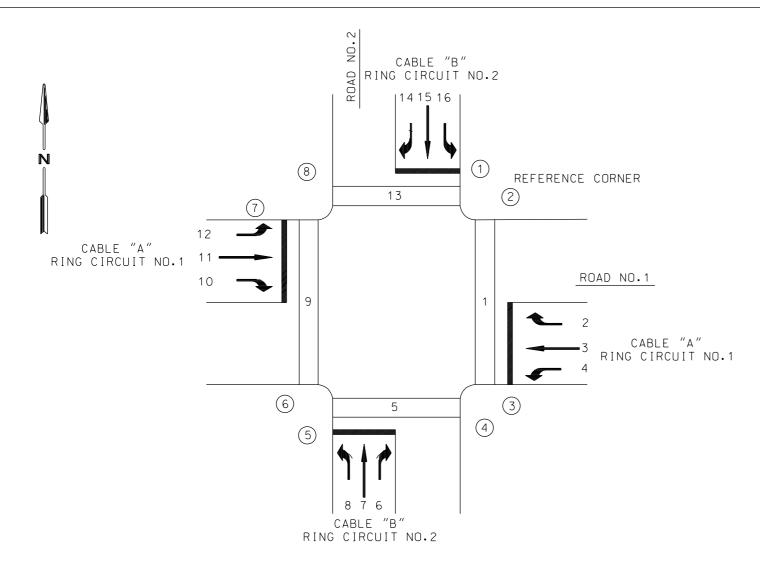
PROJ: (a)General FILE: TC-1205.dgn











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1 \	11			. )	

- 1. WHERE SPARE CORES ARE ALLOCATED FOR A SPECIFIC PURPOSE SUCH SHALL BE RECORDED ON VICROADS SITE PLAN ONE COPY REMAINING IN THE CONTROLLER AND TWO COPIES TO BE SUPPLIED TO DTP.
- 2. INSTALLATION DESIGN NEEDS TO ACCOMODATE THESE WIRING ARRANGEMENTS.PEDESTALS NEED TO BE PLACED TO ENSURE THIS TYPE OF CABLING ARRANGEMENT CAN BE ACHIEVED.
- 3. FOR LV SITES, CORES 41 THROUGH 48 TO BE USED FOR ELV CONNECTIONS ONLY.

CORE NO. CABLE "A"	FIELD	GROUP	CORE NO.	FIELD GRO	UP	CORE NO.	FIELD C	ROUP
1	RED	٧3	17			33	YELLOW	V 4
2	YELLOW	V3	18			34	GREEN	V4
3	GREEN	٧3	19			35	YELLOW	V12
4	RED	V11	20			36	GREEN	V12
5	YELLOW	V11	21			37		
6	GREEN	V11	22			38		
7	RED	V2	23			39	DIMMING	CONTROL
8	YELLOW	V2	24			40	PERM, AC	TIVE
9	GREEN	V2	25	DON'T WALK	1	41		
10	RED	V10	26	WALK	1	42		
11	YELLOW	V10	27	DON'T WALK	9	43		
12	GREEN	V10	28	WALK	9	44		
13			29			45	CALL REC	ORD 9
14			30			46	CALL 9	
15			31			47	CALL REC	ORD 1
16			32			48	CALL 1	
GREY -	ELV RE	TURN	BLACK-	NEUTRAL		GREEN &	YELLOW- E	ARTH

CORE NO. CABLE "B"	FIELD	GROUP	CORE NO.	FIELD	GROUP	CORE NO.	FIELD	GROUP
1	RED	V 7	17			33	YELLOW	V8
2	YELLOW	V 7	18			34	GREEN	V8
3	GREEN	٧7	19			35	YELLOW	V16
4	RED	V15	20			36	GREEN	V16
5	YELLOW	V15	21			37		
6	GREEN	V15	22			38		
7	RED	٧6	23			39	DIMMING	CONTROL
8	YELLOW	٧6	24			40	PERM. A	CTIVE
9	GREEN	٧6	25	DON'T W	ALK 5	41		
10	RED	V14	26	WALK	5	42		
11	YELLOW	V14	27	DON'T W	ALK 13	43		
12	GREEN	V14	28	WALK	13	44		
13			29			45	CALL RE	CORD 13
14			30			46	CALL 13	
15			31			47	CALL RE	CORD 5
16			32			48	CALL 5	
GREY -	ELV RI	ETURN	BLACK-	- NEUTI	RAL	GREEN &	YELLOW-	EARTH

Е	GENERAL NOTES / CROSS REFERENCES
D	UNSPECIFIED DIMENSIONS ARE IN mm
(	
В	
Α	
ISSUE	
A ISSUE	

CHECKED G. Studwick 2/4/08 APPROVED S. Bean 2/4/08

CAT: Civil and electrical

PROJ: (a)General FILE: TC-1214 dgn

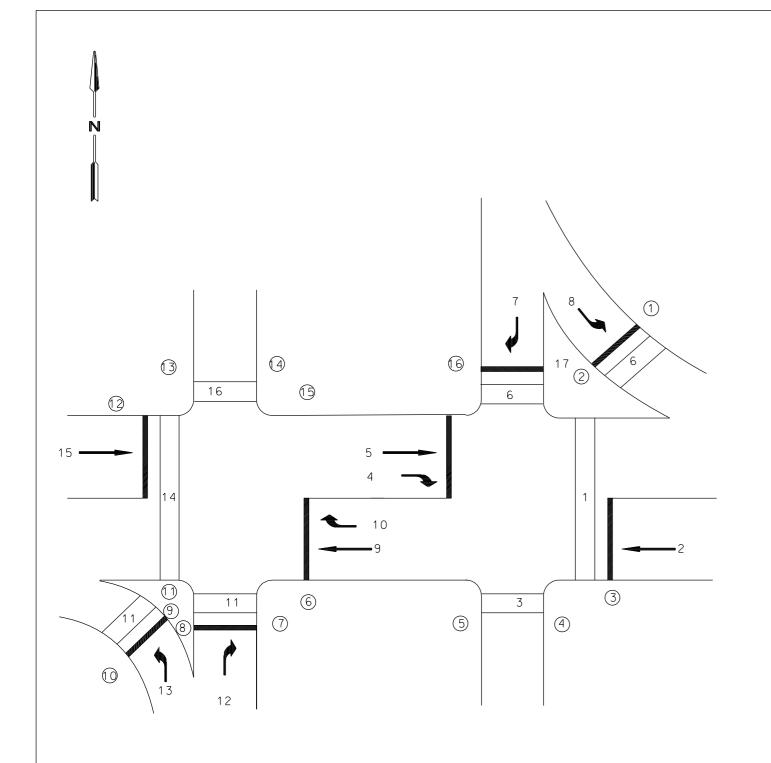
vicroads MANAGER ITS

STANDARD DRAWING

51 CORE INTERSECTIONS DUAL RING CIRCUIT

CONTRACT NO. SHEET NO.

DRAWING NO TC-1214. ISSUE A



### NOTES:

- 1. WHERE SPARE CORES ARE ALLOCATED FOR A SPECIFIC PURPOSE SUCH SHALL BE RECORDED ON VICROADS SITE PLAN ONE COPY REMAINING IN THE CONTROLLER AND TWO COPIES TO BE SUPPLIED TO DTP.
- 2. INSTALLATION DESIGN NEEDS TO ACCOMODATE THESE WIRING ARRANGEMENTS. PEDESTALS NEED TO BE PLACED TO ENSURE THIS TYPE OF CABLING ARRANGEMENT CAN BE ACHIEVED.
- 3. FOR LV SITES, CORES 41 THROUGH 48 TO BE USED FOR ELV CONNECTIONS ONLY.

CORE NO. CABLE "A"	FIELD (	GROUP	CORE NO.	FIELD GF	ROUP	CORE NO.	FIELD GRO	DUP
1	RED	V2	17			33	RED	V8
2	YELLOW	V2	18			34	YELLOW	٧8
3	GREEN	V2	19	RED	V 4	35	GREEN	V8
4			20	YELLOW	V 4	36		
5			21	GREEN	V 4	37		
6			22	RED	V 7	38		
7	RED	V5	23	YELLOW	V 7	39	DIMMING CO	NTROL
8	YELLOW	V5	24	GREEN	٧7	40	PERM. ACT	I VE
9	GREEN	V5	25	DON'T WAL	K 1	41	CALL RECOF	RD 6
10			26	WALK	1	42	CALL 6	
11			27	DON'T WAL	К 3	43		
12			28	WALK	3	44		
13			29			45	CALL RECOF	RD 3
14			30			46	CALL 3	
15			31	DON'T WAL	K 6	47	CALL RECOF	RD 1
16			32	WALK	6	48	CALL 1	
GREY -	ELV RE	TURN	BLACK-	- NEUTRA	L	GREEN &	YELLOW- EAF	≀TH

CORE NO. CABLE "B"	FIELD	GROUP	CORE NO.	FIELD	GROUP	CORE NO.	FIELD	GROUP
1	RED	V9	17	YELLOW	V12	33	RED	V13
2	YELLOW	V9	18	GREEN	V12	34	YELLOW	V13
3	GREEN	V9	19			35	GREEN	V13
4			20			36		
5			21			37		
6			22			38		
7	RED	V15	23			39	DIMMING	CONTROL
8	YELLOW	V15	24			40	PERM. A	CTIVE
9	GREEN	V15	25			41	CALL REG	CORD 16
10			26			42	CALL 16	
11			27	DON'T WA	ALK 11	43	CALL REG	CORD 14
12			28	WALK	11	44	CALL 14	
13	RED	V10	29	DON'T WA	ALK 14	45	CALL REG	CORD 11
14	YELLOW	V10	30	WALK	14	46	CALL 11	
15	GREEN	V10	31	DON'T WA	ALK 16	47		
16	RED	V12	32	WALK	16	48		
GREY -	ELV RE	TURN	BLACK-	NEUTF	RAL	GREEN &	YELLOW- E	ARTH

	E				GENERAL NOTES / CROSS REFERENCES
	D				UNSPECIFIED DIMENSIONS ARE IN mm
	(				
ſ	В				
	Α	S.P.	12/23	TITLE CHANGE, ADD DIMMING CONTROL	
	ISSUE	APP'D	DATE	AMENDMENT	

CHECKED G. Studwick 2/4/08 APPROVED S Bean 2/4/08
MANAGER ITS
CAT: Civil and electrical

PROJ: (a)General FILE: TC-1215.dgn

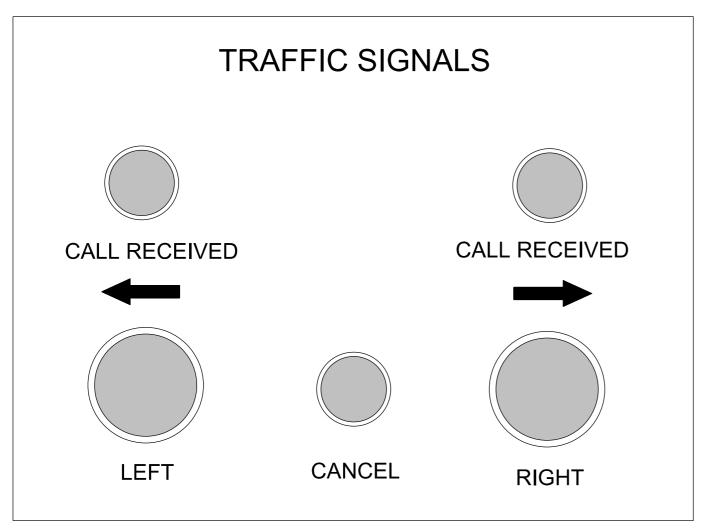
vicroads

STANDARD DRAWING

TYPICAL ARRANGEMENT 51 CORE FOR DIAMOND INTERCHANGE DUAL RING CIRCUIT

CONTRACT NO. SHEET NO.

DRAWING NO TC-1215 ISSUE A



EMERGENCY PANEL

ITEM	DESCRIPTION	NOMINAL SIZE	RECOMMENDED COLOUR
"CALL" BUTTON	MUSHROOM TYPE MOMENTARY PUSH BUTTON	38mm DIAMETER	YELLOW
"CALL RECORDED" INDICATOR	INDICATOR ILLUMINATED WHEN CALL RECORDED	30mm DIAMETER	GREEN
"CANCEL" BUTTON	SHROUDED TYPE MOMENTARY PUSH BUTTON	30mm DIAMETER	RED
LETTERING FOR "CALL" BUTTON	"CALL" FOR SINGLE EMERGENCY PHASE "LEFT" OR "RIGHT' FOR DUAL EMERGENCY PHASES	10mm CHARACTER HEIGHT	RED
LETTERING FOR "CALL RECEIVED" BUTTON	TO IDENTIFY THE CALL RECEIVED INDICATOR	10mm CHARACTER HEIGHT	BLACK
TRAFFIC SIGNALS	PANEL HEADING	10mm CHARACTER HEIGHT	BLACK

TABLE - BUTTONS AND INDICATORS

Е				GENERAL NOTES
D				
(				
В				
Α				
ISSUE	APP'D	DATE	AMENDMENT	

DESIGNED S.P. 12/23

APPROVED C.C 12/23

CAT: Civil and electrical PROJ: (a)General FILE: TC-1216 dgn

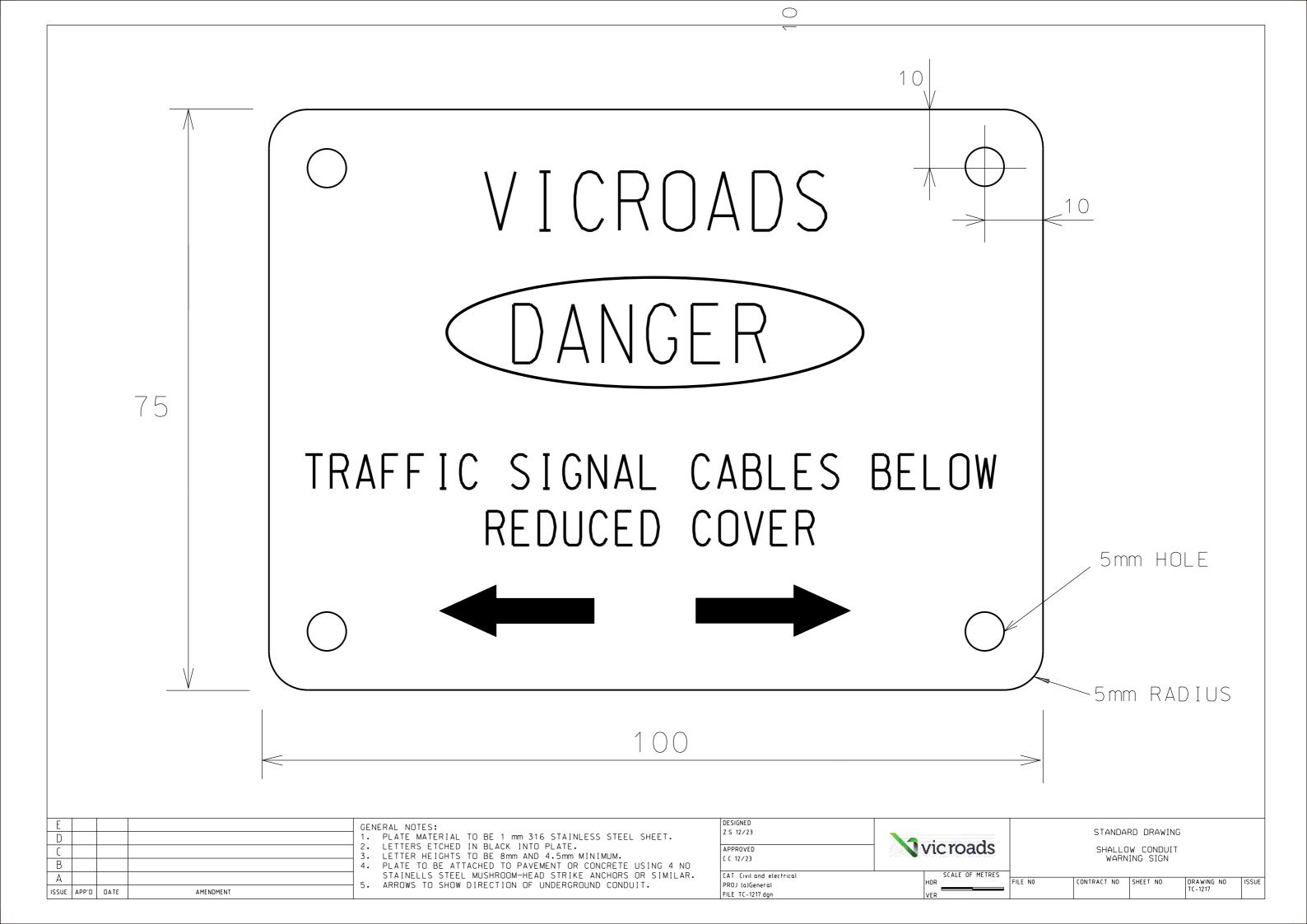


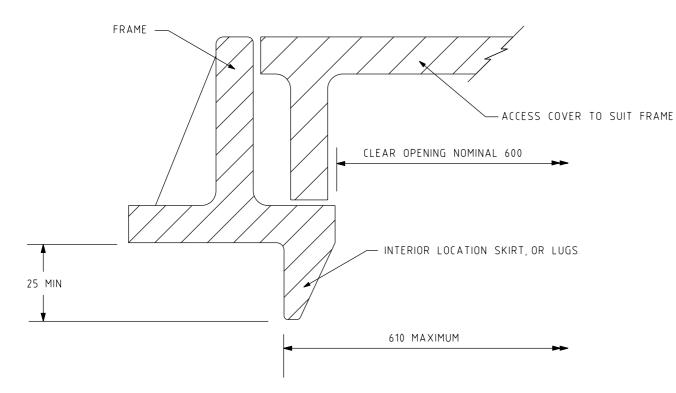
# STANDARD DRAWING EMERGENCY STATION CALL PANEL

RES FILE NO. | CONTRACT NO. | SHEET NO. | DRAWING NO TC-1216

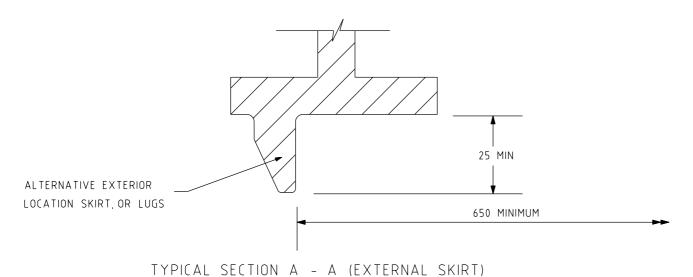
### PANEL REQUIREMENTS

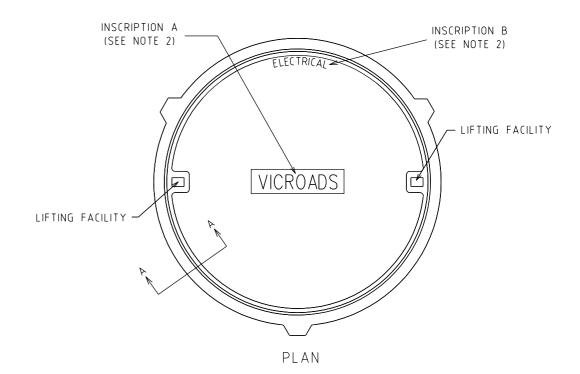
- THE PANEL SHALL BE MADE FROM A DURABLE MATERIAL SUCH AS ALUMINIUM OR STAINLESS STEEL.
- 2. THE PANEL SHALL CONSIST OF A "CALL" BUTTON.A"CALL RECORDED" INDICATOR AND A "CANCEL" BUTTON FOR A SINGLE EMERGENCY PHASE, AND TWO "CALL" BUTTONS, TWO "CALL RECORDED" INDICATORS AND A SINGLE "CANCEL" BUTTON WHERE THERE ARE TWO EMERGENCY PHASES.
- 3. THE LETTERING SHALL BE DURABLE AND APPLIED BY PRINTING OR GRAVING.
- 4. THE BUTTONS, INDICATORS AND LETTERING SHALL BE AS DETAILED AS IN THE TABLE.
- 5. THE PANEL MAY BE FLUSH MOUNTED ON THE WALL OR ON THE LID OF AN ADAPTABLE BOX MOUNTED THE WALL. THE TYPE OF INSTALLATION WILL BE DETERMINED IN ACCORDANCE WITH SITE SPECIFIC REQUIREMENTS.
- 6. A TYPICAL TWO PHASE PANEL WOULD BE APPROXIMATELY 270mm X 200mm.
- 7. THE PANEL SHALL BE CONNECTED TO THE TRAFFIC SIGNAL CONTROLLER IN ACCORDANCE WITH TCS 016 AND AS SPECIFIED IN INDIVIDUAL CONTRACT DOCUMENTS
- 8. THE DRAWING SHOWS A TYPICAL PANEL FOR TWO EMERGENCY PHASES.





TYPICAL SECTION A - A (INTERNAL SKIRT)





### NOTES

- 1. PIT ACCESS COVER AND FRAME TO COMPLY WITH AS 3996 CLASS B UNSEALED (STANDARD), SOLID TOP OR RECESSED WITH CONCRETE OR OTHER FILL.
- 2 INSCRIPTIONS ON THE COVER ARE TO BE CAST, IMPRESSED OR AFFIXED BY AN APPROVED METHOD AND BE OF HIGH DURABILITY AND LEGIBILITY UNLESS OTHERWISE SPECIFIED, THE TEXT SHALL BE IN UPPER CASE LETTERING MINIMUM 20 HIGH. THE REQUIRED INSCRIPTION MUST BE SPECIFIED WHEN ORDERING.

INSCRIPTION "A" OPTIONS:

"A1" = "VICROADS"

"A2" = "OTHER INSCRIPTION AS SPECIFIED"

INSCRIPTION "B" OPTIONS:

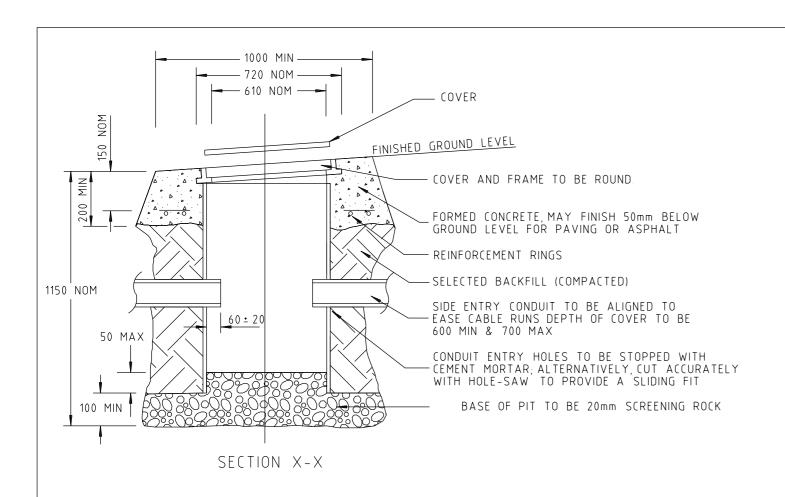
"B1" = "ELECTRICAL" or "ELEC"

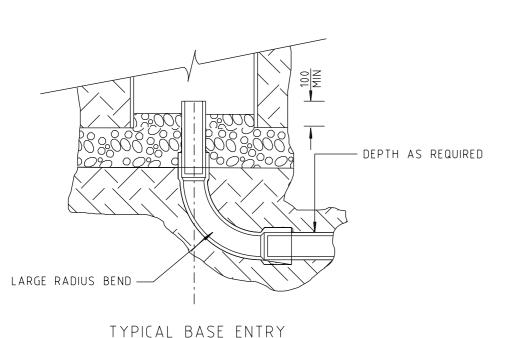
"B2" = "COMMUNICATIONS" or "COMMS" "B3" = "TRAFFIC SIGNALS" or "TRAFF SIG"

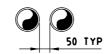
"B4" = "OTHER INSCRIPTION AS SPECIFIED"

3 PIT LID TOP SURFACE SHALL MEET SKID RESISTANCE REQUIREMENTS FOR CLASS P3 AS DETAILED IN TABLE 2 OF AS/NZS 4586-2013

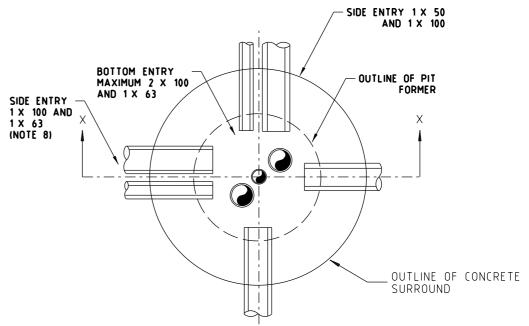
Е				GENERAL NOTES / CROSS REFERENCES	CHECKED					
D	S.P.	12/23	UPDATE NOTE 3	UNSPECIFIED DIMENSIONS ARE IN mm	S.Purtill 28/5/02			NDARD DRAWING PIT ACCESS CO		
C	S.P.	24/4/14	ADDITION OF NOTE 3		APPROVED D. Zabriszach 28/05/02	Vicroads		AND FRAME	VER	
В	J.R.	27/8/96	ABBREVIATIONS ADDED TO NOTE 2		D 24DHS24CH 267 057 02					
Α	J.R.	2/8/96	MIN NO OF LUGS DELETED		CAT: Civil and electrical PROJ: (a)General	SCALE OF METRES	FILE NO. CONTRACT	NO. SHEET NO.	DRAWING NO	ISSUE
ISSUE	APP'D	DATE	AMENDMENT		FILE: TC-1220 dgn	VER			TC-1220	D



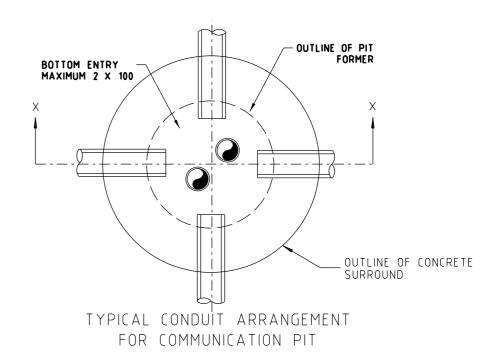




TYPICAL CONDUIT SIDE ENTRY (REFER TO NOTE 8)



TYPICAL CONDUIT ARRANGEMENT FOR TRAFFIC SIGNALS



## MATERIALS REQUIRED PER PIT

- CABLE PIT FORMER, REFER TO TC-1210
- ACCESS COVER AND FRAME, WITH COVER SUITABLY INSCRIBED AS PER SPECIFICATION, TC-1220
- HEAVY DUTY ORANGE OR WHITE CONDUITS AS REQUIRED.
- REINFORCEMENT RINGS, REFER TO NOTE 9.
- CRUSHED ROCK, CONCRETE, CEMENT MORTAR ETC, AS REQUIRED

### S.P. 12/23 NOTES AND CONDUIT INSTALLATION DETAILS AMENDED S.P. 13/2/13 NOTES AMENDED, TITLE BLOCK UPDATED NOTES AMENDED AND EARTH STAKE DELETED A J.R. 22/8/96 ISSUE APP'D DATE AMENDMENT

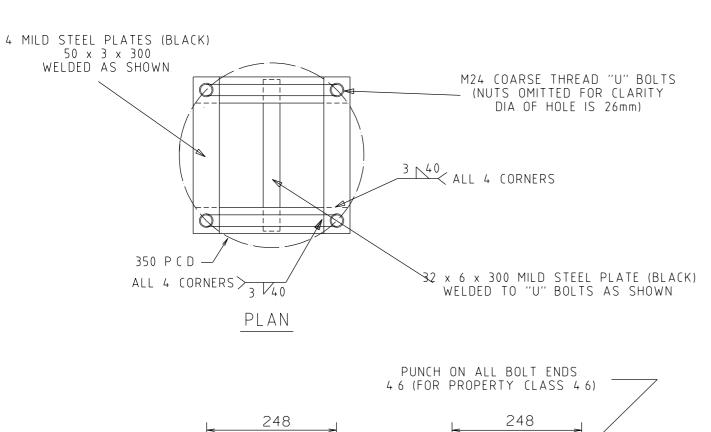
- 8 MAXIMUM 2 SIDE ENTRY CONDUITS TO BE INSTALLED PER PIT QUADRANT.
  9 ALL CONDUITS ENTRY AND EXIT POINTS INTO PIT WALLS TO BE SEALED WITH CEMENT MORTAR TO PROVIDE WATERTIGHT SEAL
  10. REINFORCEMENT RINGS 750 DIA AND 900 DIA WIRE WITH EIGHT LIGATURE

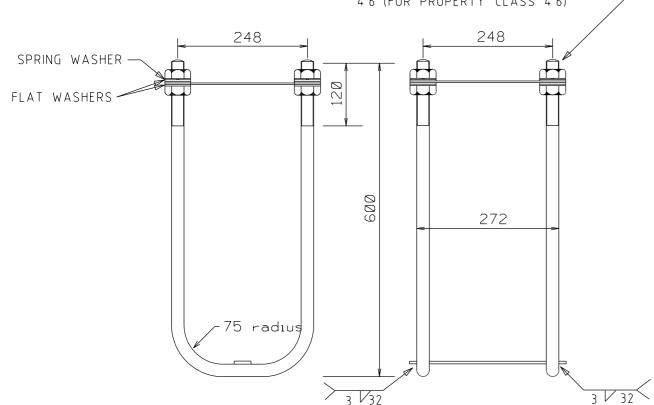
UNSPECIFIED DIMENSIONS ARE IN mm

GENERAL NOTES (CONTINUED)

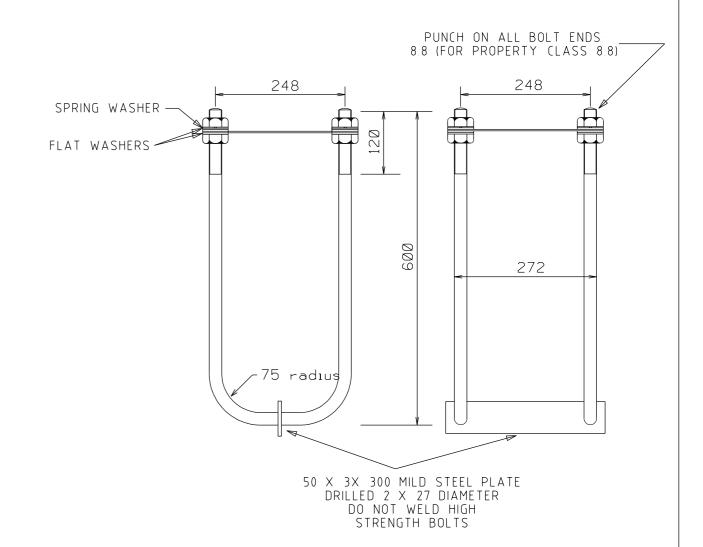
- UNSPECIFIED DIMENSIONS ARE IN mm
  AVOID DISTORTION DURING COMPACTION SUCH THAT THE MINIMUM DIAMETRIC DIMENSION EXCEEDS 580 ENDS OF CONDUITS TO BE TRIMMED NEATLY AND FREE FROM SHARP EDGES OR BURRS.
  CONDUIT BUSHES NOT REQUIRED FOR TRAFFIC SIGNAL INSTALLATIONS
  BASE ENTRY TO BE USED ONLY WHERE DEEP CONDUIT RUNS ARE REQUIRED
  MAXIMUM NUMBER OF CONDUITS IN PIT TO COMPLY WITH REQUIREMENTS OF STANDARD SECTION 733.
  FOR DTP LIGHTING E100 CONDUITS TO BE USED INSTEAD OF E63 CONDUITS, WHERE EXTRA CONDUIT
  CAPACITY IS REQUIRED

CHECKED							
J. RANDALL 21/12/95				CTANDAI	RD DRAWING	,	
		amananani aya			CABLE PIT		
APPROVED	Vicro	aas I			TION DETAI		
B. HEARN 21/12/95	A17 14 CARAGRAGA			INSTALLA	IION DETAI	LS	
T.S.O. MANAGER							
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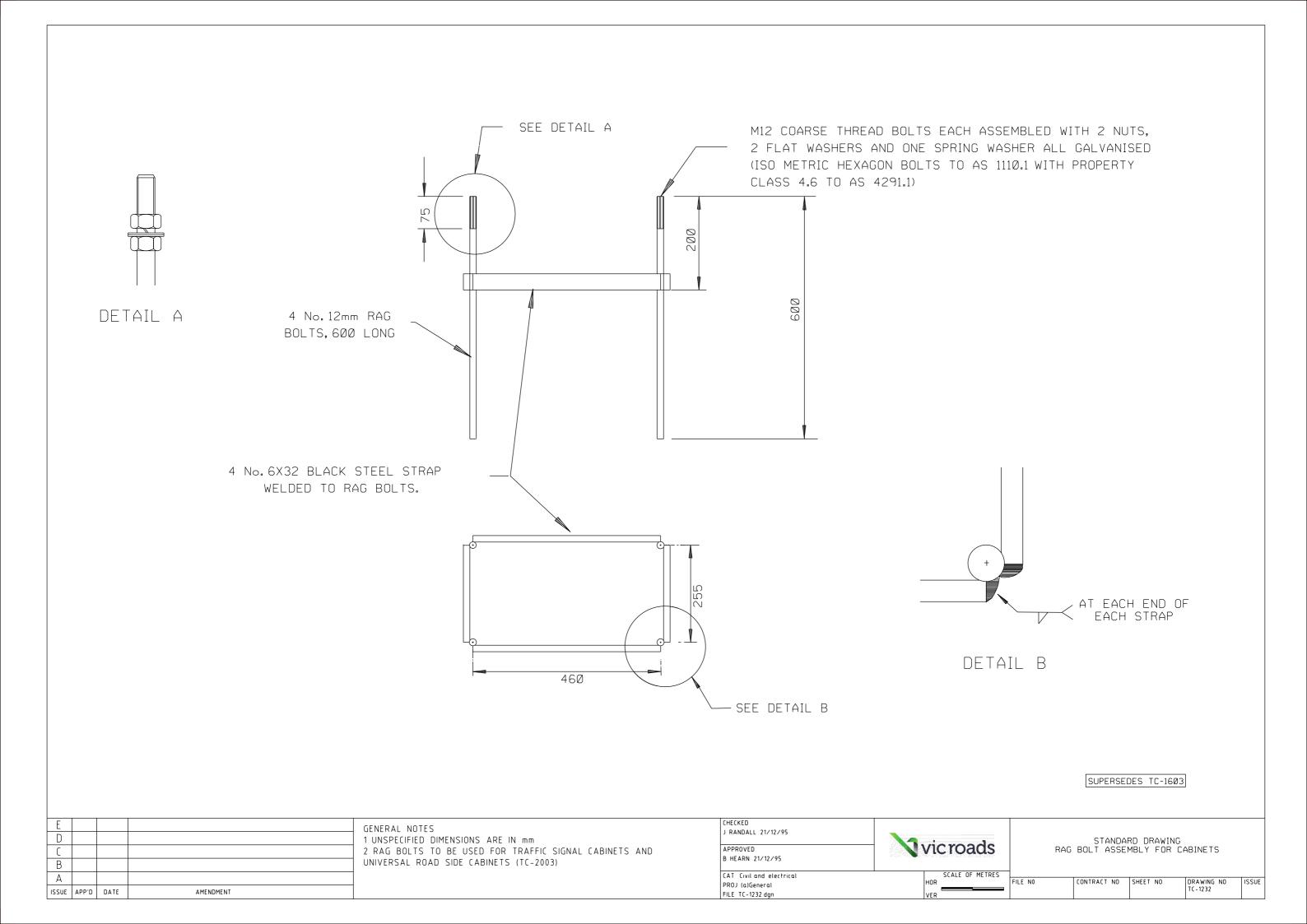
COMMERCIAL GRADE BOLTS (ISO METRIC HEXAGON BOLTS TO AS 1110.1 WITH PROPERTY CLASS 4.6 TO AS 4291.1)

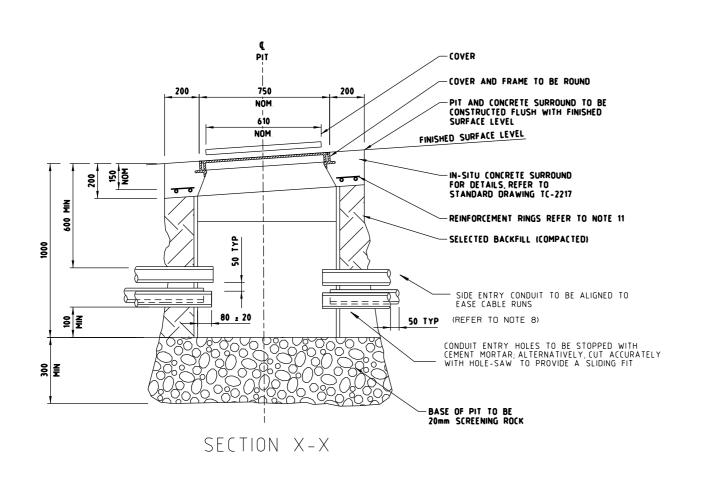


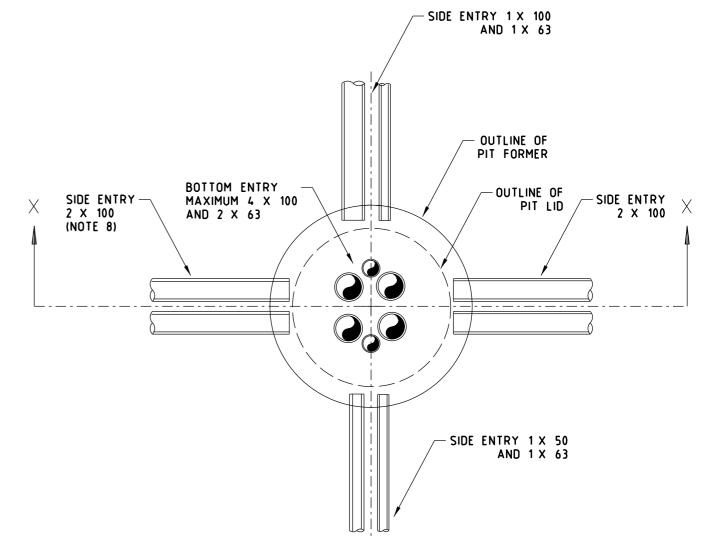
HIGH STRENGTH BOLTS (TO AS/NZS 1252.1) WITH PROPERTY CLASS 8.8 (TO AS 4291.1)

SUPERSEDES TC-1601

E				- GENERAL NOTES	CHECKED  J. RANDALL 14/8/96		STANDARD DRAWING
				1 UNSPECIFIED DIMENSIONS ARE IN mm	APPROVED	vicroads	RAG BOLT ASSEMBLY FOR POLES
В				2 ALL "BOLTS", NUTS WASHERS TO BE GALVANISED (TO AS1214)	B. HEARN 14/8/96	vit kukri i mitik ♥ pri vitik yant dikadhan tu £ Dikadhak "differi	FOR POLES
A					CAT: Civil and electrical	SCALE OF METRES L	FILE NO.   CONTRACT NO.   SHEET NO.   DRAWING NO
ISSU	E APP'D	DATE	AMENDMENT		PROJ: (a)General FILE: TC-1231.dgn	VER	TC-1231







REFER TO NOTE 5 -DEPTH AS REQUIRED MIN. 90° SWEEP BEND 600mm MIN. RADIUS

TYPICAL BASE ENTRY

50 TYP TYPICAL CONDUIT SIDE ENTRY REFER TO NOTE 8

DESIGNE

MATERIALS REQUIRED PER PIT

CABLE PIT FORMER, REFER TO TC-2216

TYPICAL CONDUIT ARRANGEMENT

- ACCESS COVER AND FRAME, REFER TO TC-1220.
- HEAVY DUTY ORANGE CONDUITS AS REQUIRED.
- REINFORCEMENT RINGS, NOTE 10.
- CRUSHED ROCK, CONCRETE, CEMENT MORTAR, ETC. AS REQUIRED

## GENERAL NOTES (CONTINUED)

- 8 MAXIMUM 3 SIDE ENTRY CONDUITS TO BE INSTALLED PER PIT QUADRANT
  9. ALL CONDUITS ENTRY AND EXIT POINTS INTO PIT WALLS TO BE SEALED WITH
  CEMENT MORTAR TO PROVIDE WATERTIGHT SEAL
  10. CABLE PIT SHOWN IS A 750mm PIT WITH A 610mm COVER
  11. REINFORCEMENT RINGS 750 DIA AND 900 DIA WIRE WITH EIGHT LIGATURE.

# В ISSUE APP'D DATE AMENDMENT

### GENERAL NOTES

- UNSPECIFIED DIMENSIONS ARE IN mm.

- UNSPECIFIED DIMENSIONS ARE IN mm
  AVOID DISTORTION DURING COMPACTION SUCH THAT THE MINIMUM DIAMETRIC DIMENSION EXCEEDS 725mm.
  ENDS OF CONDUITS TO BE TRIMMED NEATLY AND FREE FROM SHARP EDGES OR BURRS.
  CONDUIT BUSHES NOT REQUIRED FOR TRAFFIC SIGNAL INSTALLATIONS
  BASE ENTRY TO BE USED ONLY WHERE DEEP CONDUIT RUNS ARE REQUIRED
  MAXIMUM NUMBER OF CONDUITS IN PIT TO COMPLY WITH REQUIREMENTS OF STANDARD SECTION 733.
  FOR DTP LIGHTING E100 CONDUITS TO BE USED INSTEAD OF E63 CONDUITS, WHERE EXTRA CONDUIT
  CAPACITY IS REQUIRED.

Z S. 12/23	
APPROVED C.C. 12/23	Vicroads
12723	

STANDARD DRAWING 750mm CABLE PIT INSTALLATION DETAILS

C.C. 12/ SCALE OF METRES CAT: Civil and electrical PROJ: (a)General FILE: TC-1233.dgn

CONTRACT NO. SHEET NO. FILE NO. DRAWING NO ISSUE TC-1233.