Corner Glen Eira and Hawthorn Roads

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STANDARD DRAWINGS INDEX

No.	Title	No.	Title	No.	Title
000	INDEX	200	SUB SURFACE DRAINAGE	500	PARK & STREET FURNITURE
100	PITS	STD-201	A.G. Drain and Flushing Point Details		
STD-101	Pit Dimensioning / Set-Out	STD-202	House Drain Inspection Opening and Connection (2 Sheets)		
STD-101	Step Irons	STD-203	Pipe Bedding and Backfill Details		
STD-102	Pit Covers and Surrounds				
STD-104	Precast Concrete Lintels	300	KERBS		
STD-105	Junction Pit (Cover, Grate, V-Grate & Depressed Grate)	STD-301	Concrete Kerb and Channel Sections	STD-505	Plinth Edge Restraint (2 Sheets)
STD-105A	Large Junction Pit, Type A, 2400X2400X3600 Max Depth	STD-302	Bluestone Kerb and Channel Sections		
STD-105B	Large Junction Pit, Type B, 2400X2400X5400 Max Depth	STD-303	Bluestone Kerb and Concrete Channel Sections		
STD-106	S1 Type S.E.P. Single		PAVEMENTS	STD-508	Seat/Bench Layout and Installation
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STD-108	S2 Type S.E.P. Single	STD-401A	Alternate Vehicular Crossing Details – 900mm Radials		
STD-109	S2D Type S.E.P. Double	STD-401B	Vehicle Crossing Modified Details - 900mm Radials	S 10-511	Tree Guard
STD-110	S3 Type S.E.P. Single		Footpath Details up to 1.95 metres wide	STD-512	Drinking Fountain
STD-111	S3D Type S.E.P. Double	STD-403	Perambulator Crossing Details (2 Sheets)	600	LANDSCAPING
STD-112	S4 Type (Grated) S.E.P. Single	STD-404	Laneway Details	STD-601	Tree Bud Lighting, Typical Conduit Layout
STD-113	Unhaunched Pits	STD-405	Plain Concrete Pavement – Transverse Joint and Isolated Reinforcement Detail		Root Barrier
STD-114	Haunched Pits	STD-406	Jointed Reinforced Concrete Pavement - Transverse Joint Detail	700	TRAFFIC
		STD-407	Jointed Reinforced Concrete Pavement - Reinforcement and Joint Detail	STD-701	Road Hump
STD-116	Vehicle Crossings Grating Pit	STD-408	Jointed Plain and Reinforced Concrete Pavement – Treatment of Slab Openings	STD-702	Traffic Island
		STD-409	Jointed Plain Pavement - Slab Replacement	STD-703	Pavement Marking (2 Sheets)
		STD-410	Concrete Pavement (All Types) - Expansion Joint Detail	STD-704	Traffic Sign Layout and Installation
		STD-411	Concrete Pavement (All Types) - Longitudinal Tied Joints	STD-705A	Speed Cushions
		STD-412	Pavement Sections – Design Guide (2 Sheets)	STD-705B	Speed Cushions - Bus Routes
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CITY OF GLEN EIRA



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CAD Reference Initials Date PRO & INF Designed APR 2018 STD-000 INDEX Drawn PRO & INF **APR 2018** Reference Checked PRO & INF APR 2018 Version Approved

STANDARD DRAWING INDEX

NOTE: GREY TITLES NOT BEEN ISSUED

DENOTES DRAWINGS THAT HAVE

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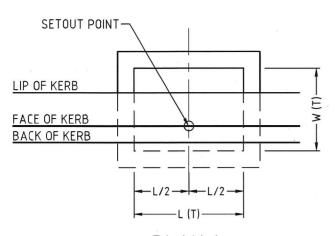
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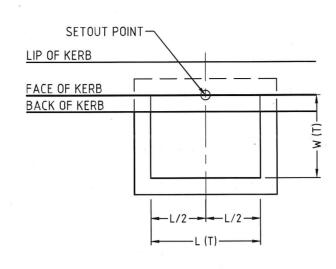
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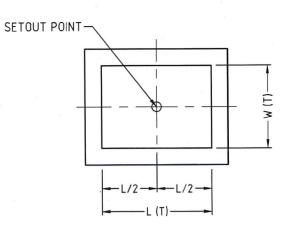
STANDARD DRAWINGS NDEX



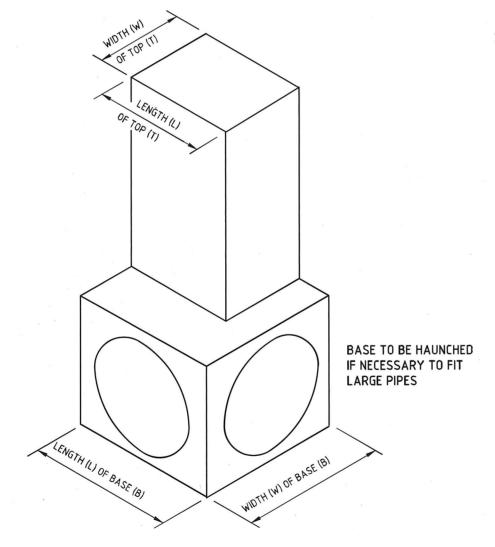
PLAN 1 S3 GRATED SIDE ENTRY PIT



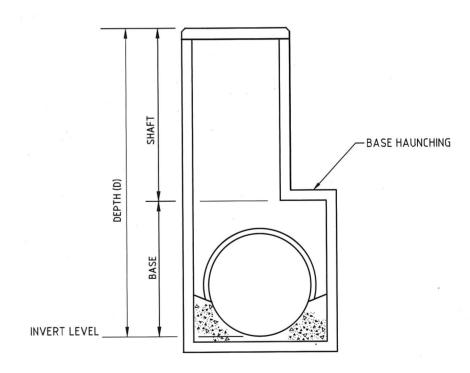
PLAN 2 S1 & S2 SIDE ENTRY PIT



PLAN 3
GRATED PIT & JUNCTION PIT



INTERNAL PIT DIMENSIONS



SHAFT CONFIGURATIONS

PIT WITH HAUNCHED BASE

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	Initials	Date	CAD Reference	Г
Designed	CAP WORKS	AUG 2009	STD-101_PIT DIMS	
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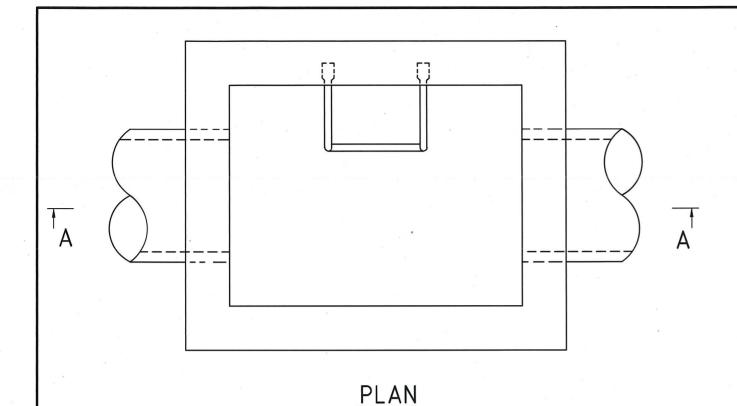
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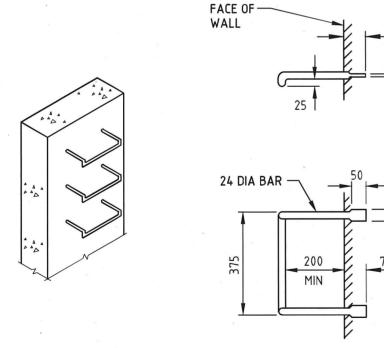
PIT DIMENSIONS AND SETTING OUT DETAIL

SCALE: AS SHOWN DRG.

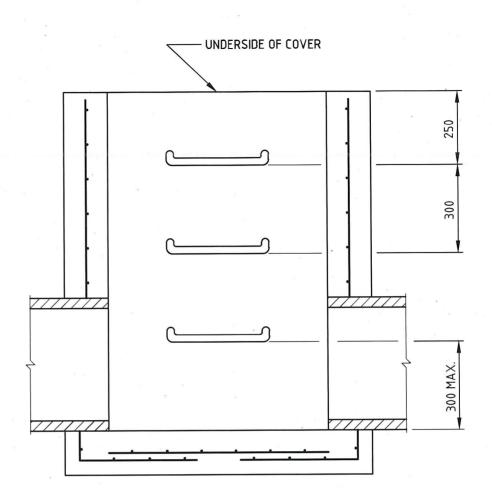
STD-101

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STEP IRON DETAILS



SECTION A-A

NOTES:

- 1. PITS DEEPER THAN 1000 SHALL BE FITTED WITH STEP IRONS.
- 2. STEP IRONS SHALL BE LOCATED:
 - -DIRECTLY BELOW THE OPENING IN THE COVER.
 - -DESIRABLY ON A WALL WITHOUT PIPE OPENINGS.
 - -DESIRABLY ON ONE OF THE LONG SIDES OF THE PIT.
- 3. STEEL FOR STEP-IRONS SHALL BE STRUCTURAL GRADE 250 TO AS3679 PART 1.
- STEP IRONS SHALL HAVE SHARP EDGES ROUNDED AND HOT DIP GALVANIZED AFTER FABRICATION TO AS/NZS 4680.

16.01.12

- 5. PROPRIETORY STEPS SUCH AS THE GATIC 373 PM POLYPROPYLENE STEPS (OR APPROVED ALTERNATIVE) MAY BE USED. THESE SHALL BE INSTALLED ACCORDING TO THE MANUFACTURERS INSTRUCTIONS.
- 6. FOR PRECAST PITS, STEP IRONS SHALL BE LOAD TESTED TO AS4198/1994.

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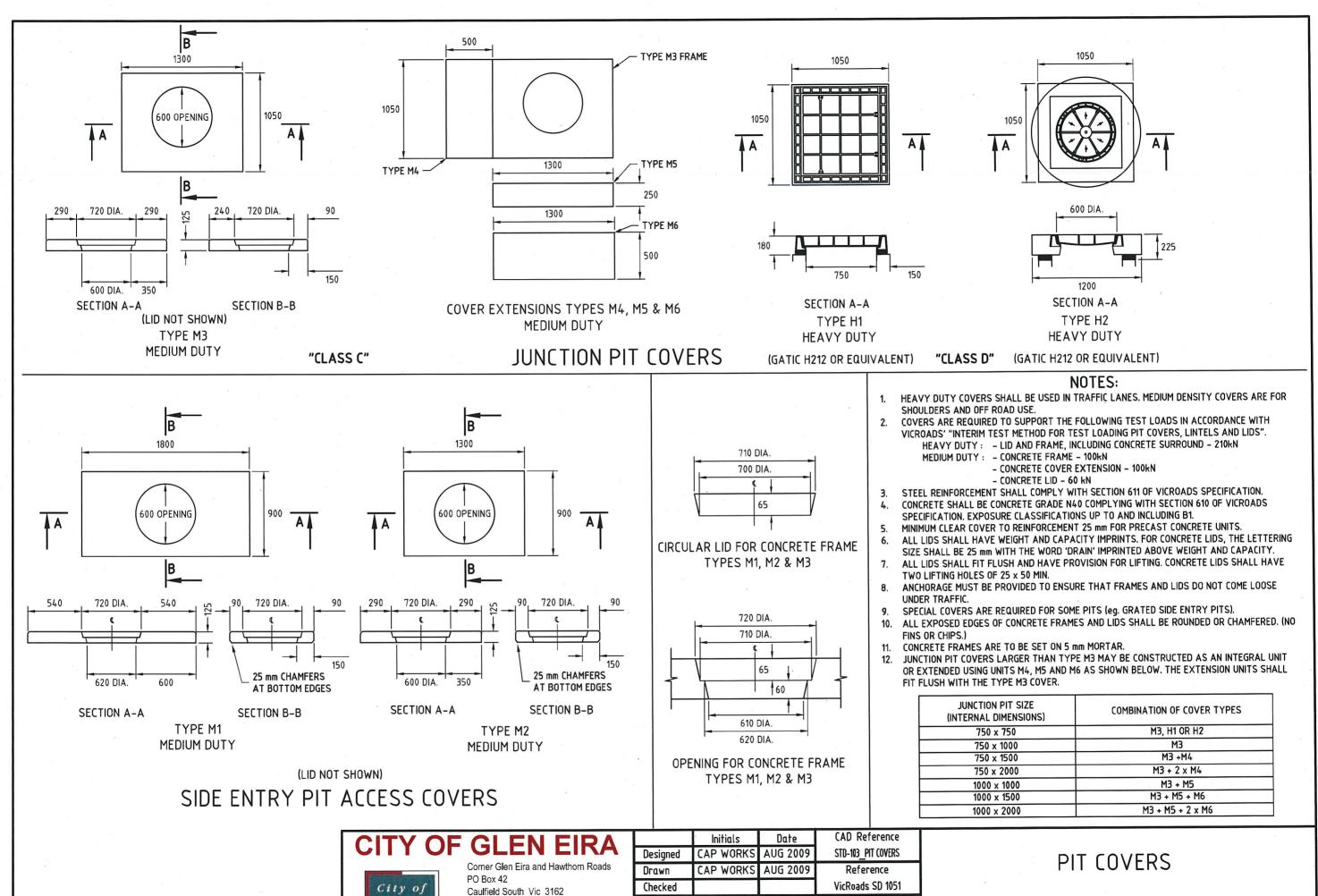
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Dir. Assets & Facilities Date

STEP IRONS

AS SHOWN DRG. NO. STD-102 SHEET 1 OF 1

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Approved

Dir. Assets & Facilities Date

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GLEN

Version

Date

16.01.12

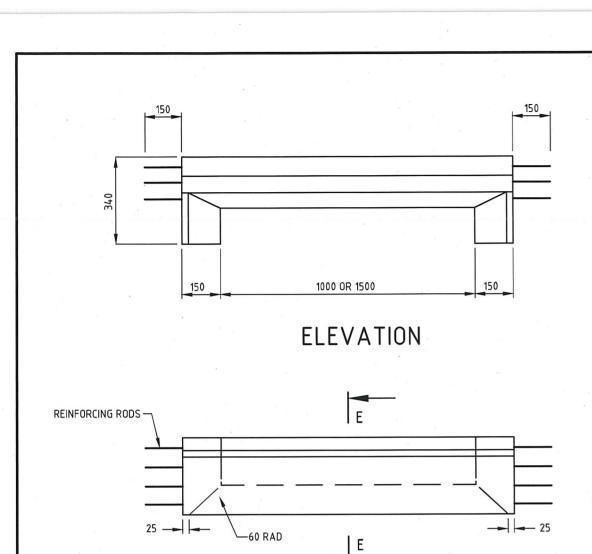
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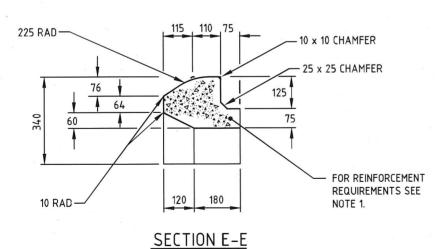
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STD-103

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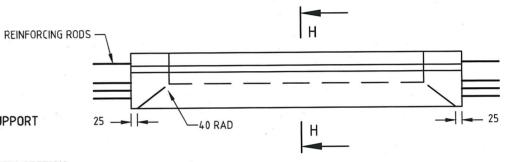


PLAN

SM TYPE LINTELS

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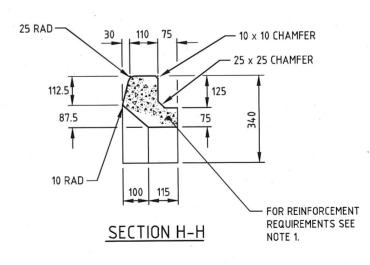


- 1. STANDARD LINTELS ARE REQUIRED TO SUPPORT A TEST LOAD OF 100 kN.
- STEEL REINFORCEMENT SHALL COMPLY WITH SECTION 611 OF VICROADS SPECIFICATION.

NOTES

- 3. CONCRETE SHALL BE CONCRETE GRADE N40 OR HIGHER COMPLYING WITH AS 1379. EXPOSURE CLASSIFICATIONS UP TO AND INCLUDING B1.
- 4. MINIMUM CLEAR COVER TO REINFORCEMENT 25 mm FOR PRECAST CONCRETE UNITS.

PLAN



B TYPE LINTELS

AS SHOWN

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Designed	CAP WORKS	AUG 2009	STD-104_LINTELS
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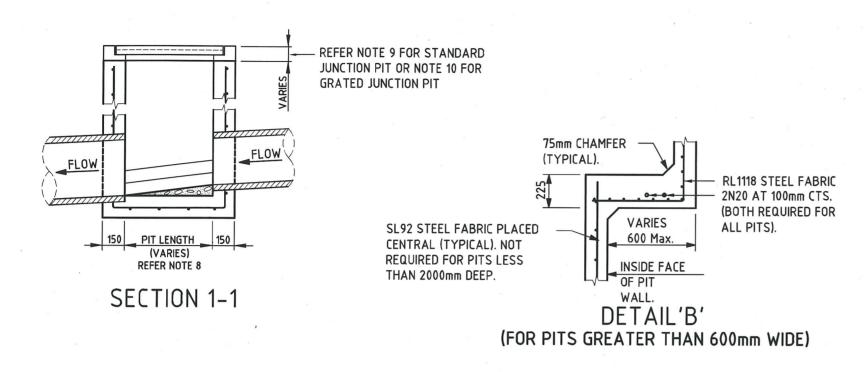
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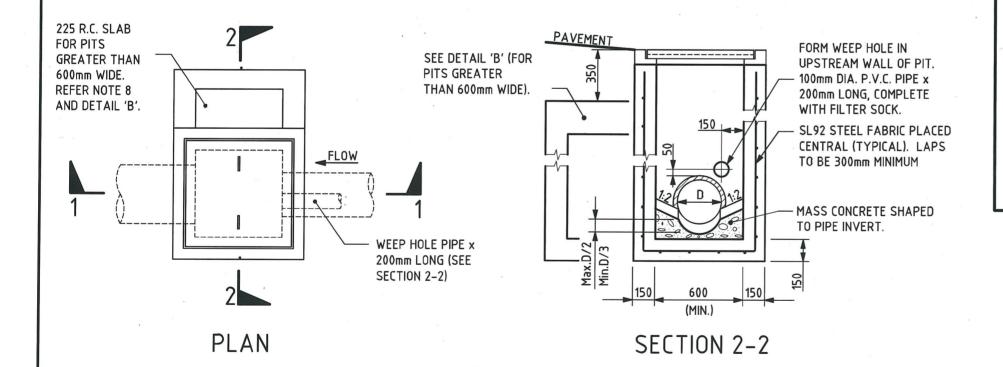
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PRECAST CONCRETE LINTELS

STD-104

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- WALL THICKNESS SHALL APPLY TO ALL PITS UP TO 3000mm IN DEPTH. FOR PITS DEEPER THAN 3000mm SEE STD-113 AND STD-114.
- REINFORCING TO PIT WALLS AND BASE IS NOT REQUIRED FOR PITS LESS THAN 2000mm IN DEPTH UNLESS NOTED OTHERWISE
- REINFORCING IS REQUIRED TO ALL CORBELS ON PITS AS NOTED ON DETAIL 'B'
- ALL REINFORCEMENT LAPS SHALL BE 300mm MINIMUM.
- MINIMUM COVER TO REINFORCEMENT SHALL BE 50mm UNLESS OTHERWISE SPECIFIED.
- ALL REINFORCEMENT SHALL BE SL92 STEEL FABRIC, UNLESS OTHERWISE
- PITS DEEPER THAN 1000mm AND UP TO 3000mm SHALL BE FITTED WITH STEP IRONS. SEE STD-102. PITS DEEPER THAN 3000mm SHALL BE FITTED WITH LADDERS.
- PIT DIMENSIONS SHALL BE AS FOLLOWS:

a. LENGTH FOR PITS UP TO 1000mm DEEP,

L = 600 mm

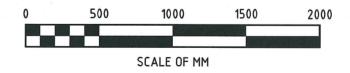
FOR PITS DEEPER THAN 1000mm,

L = 750 mmW = 600 mm

FOR PIPE DIAMETER UP TO 450mm.

FOR PIPE DIAMETER GREATER THAN 450mm. W = D + 150mm

- 9. COVERS SHALL BE IN ACCORDANCE WITH AS3996 AND AS FOLLOWS:
 - a. NATURESTRIP AND FOOTPATH AREAS: CLASS A. FACTORY PRODUCED PRECAST CONCRETE COVERS SHALL BE USED.
 - b. OTHER PAVEMENT AREAS: GATIC OR APPROVED EQUIVALENT STRENGTH COVERS SHALL BE USED AS SPECIFIED BFI OW:
 - CLASS D: ROAD PAVEMENT IN MAJOR ROAD DRIVE CROSSINGS FOR SERVICE AND FIRE STATIONS.
 - CLASS C: ROAD PAVEMENT IN LOCAL STREET AND LANEWAY, DRIVE CROSSINGS FOR COMMERCIAL AND INDUSTRIAL USE.
 - CLASS B: DRIVE CROSSINGS FOR RESIDENTIAL USE.
 - COVERS AND FRAMES ARE TO BE MANUFACTURED FROM NOT LESS THAN GRADE 12 GREY CAST IRON IN ACCORDANCE WITH AS1830.
- 10. GRATES SHALL BE IN ACCORDANCE WITH AS3996 AND GATIC OR APPROVED EQUIVALENT STRENGTH. GRATES AND FRAMES ARE TO BE MANUFACTURED FROM NOT LESS THAN GRADE 12 GREY CAST IRON IN ACCORDANCE WITH AS1830. REFER TO PROJECT DRAWINGS FOR LOAD CLASS.



GLEN EIRA CITY COUNCIL



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JUNCTION PITS (COVER, GRATE, V-GRATE & DEPRESSED GRATE)

AS SHOWN STD-105

SCALE:

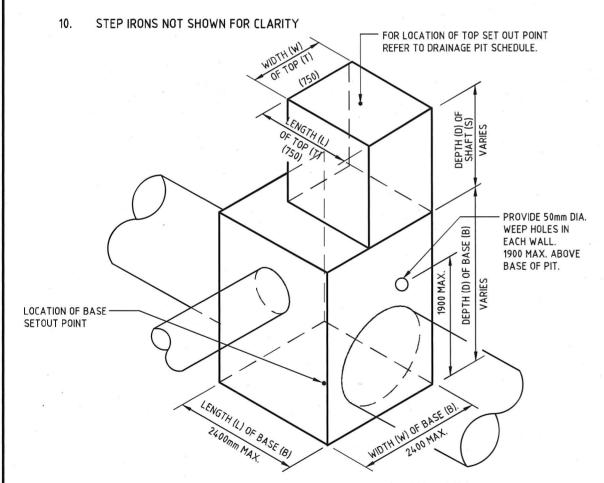
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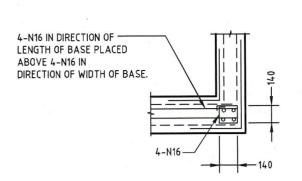
CONCRETE

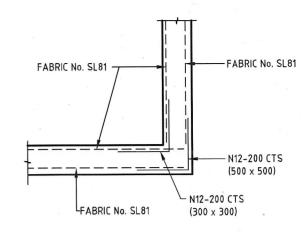
- CONCRETE STRENGTH GRADE SHALL BE N32 STANDARD STRENGTH CONCRETE OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS 1379
- ALL CORNERS SHALL HAVE 20x20mm FILLETS OF CHAMFERS UNLESS NOTED OTHERWISE.

REINFORCEMENT

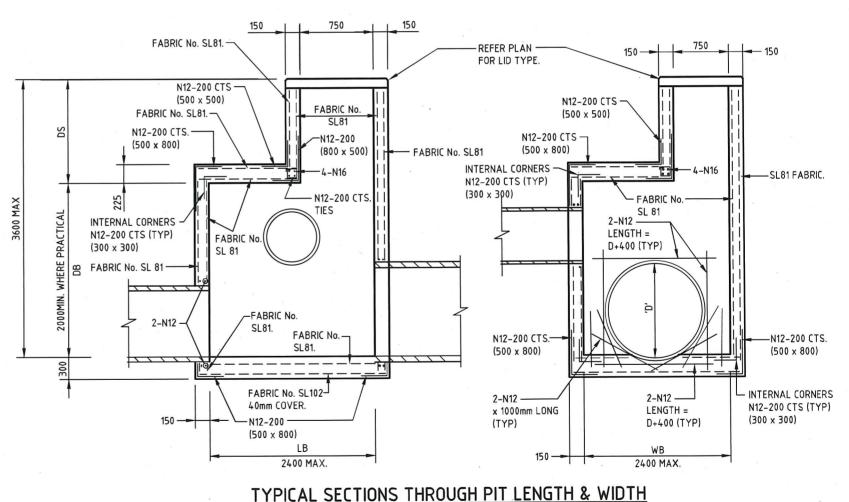
- COVER 35mm UNLESS NOTED OTHERWISE
- SPACING TAKEN AS EQUAL UNLESS NOTED OTHERWISE
- GRADE 500(VN) TO AS/NZS 4671 5.
- WELDED WIRE REINFORCING FABRIC SHALL COMPLY TO AS/NZS 4671
- WELDING SHALL NOT BE PERMITTED UNLESS NOTED OTHERWISE
- TREADS FOR STEP IRON DETAIL REFER TO STD-102
- STEELWORK SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AS/NZS 4680







CORNER DETAILS - PLAN VIEW



TYPICAL INTERNAL PIT DIMENSIONS

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LARGE JUNCTION PIT TYPE A 2400 x 2400 x 3600mm MAX. DEPTH

STD-105A AS SHOWN

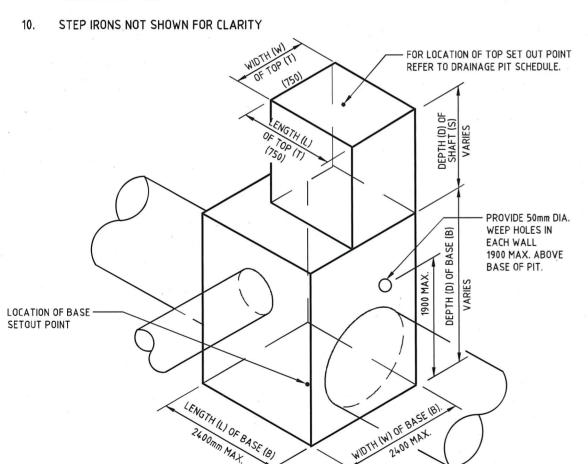
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CONCRETE

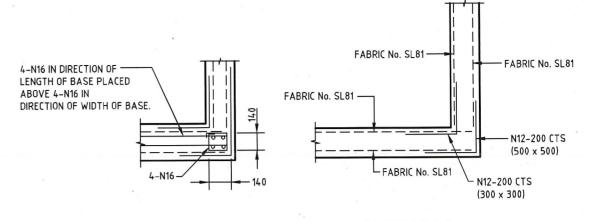
- CONCRETE STRENGTH GRADE SHALL BE N32 STANDARD STRENGTH CONCRETE OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS 1379
- ALL CORNERS SHALL HAVE 20x20mm FILLETS OF CHAMFERS UNLESS NOTED OTHERWISE.

REINFORCEMENT

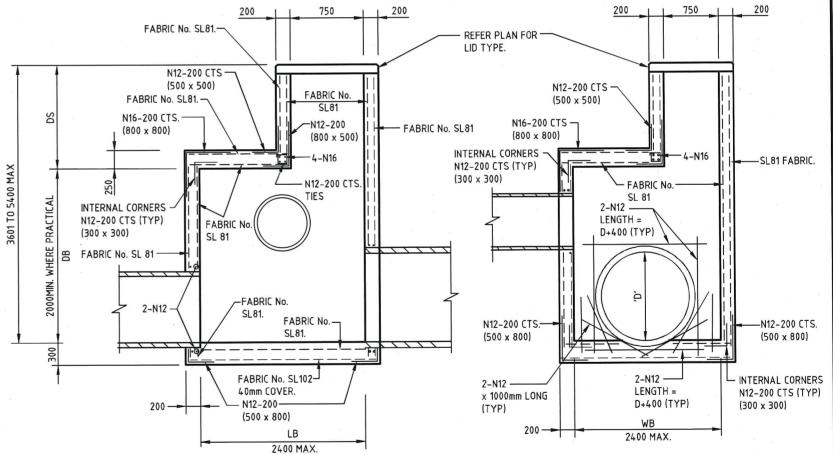
- COVER 35mm UNLESS NOTED OTHERWISE
- SPACING TAKEN AS EQUAL UNLESS NOTED OTHERWISE
- GRADE 500(VN) TO AS/NZS 4671
- WELDED WIRE REINFORCING FABRIC SHALL COMPLY TO AS/NZS 4671
- WELDING SHALL NOT BE PERMITTED UNLESS NOTED OTHERWISE
- STEP IRONS FOR STEP IRON DETAIL REFER TO STD-102
- STEELWORK SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AS/NZS 4680



TYPICAL INTERNAL PIT DIMENSIONS



CORNER DETAILS - PLAN VIEW



TYPICAL SECTIONS THROUGH PIT LENGTH & WIDTH

OF GLEN EIRA



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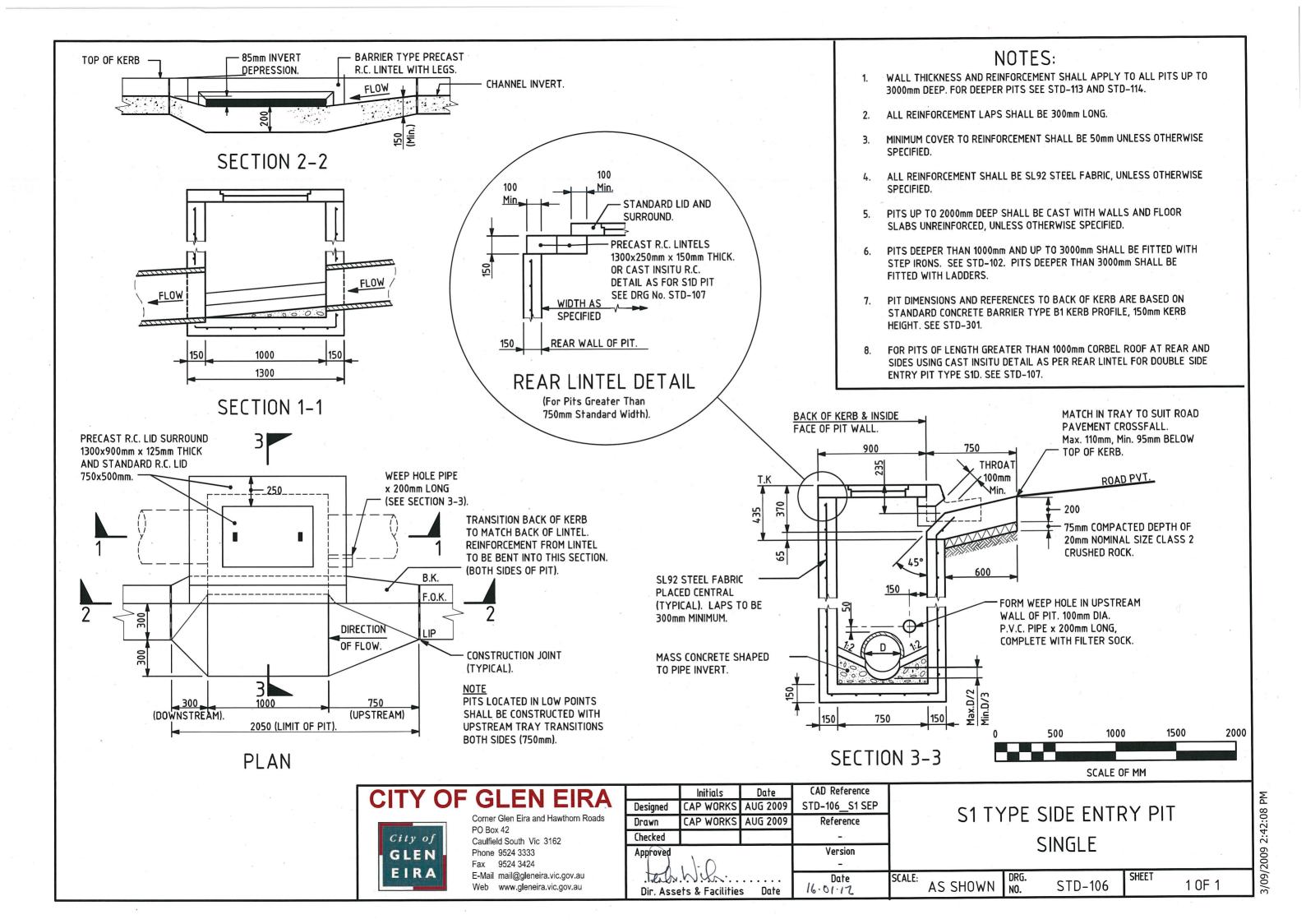
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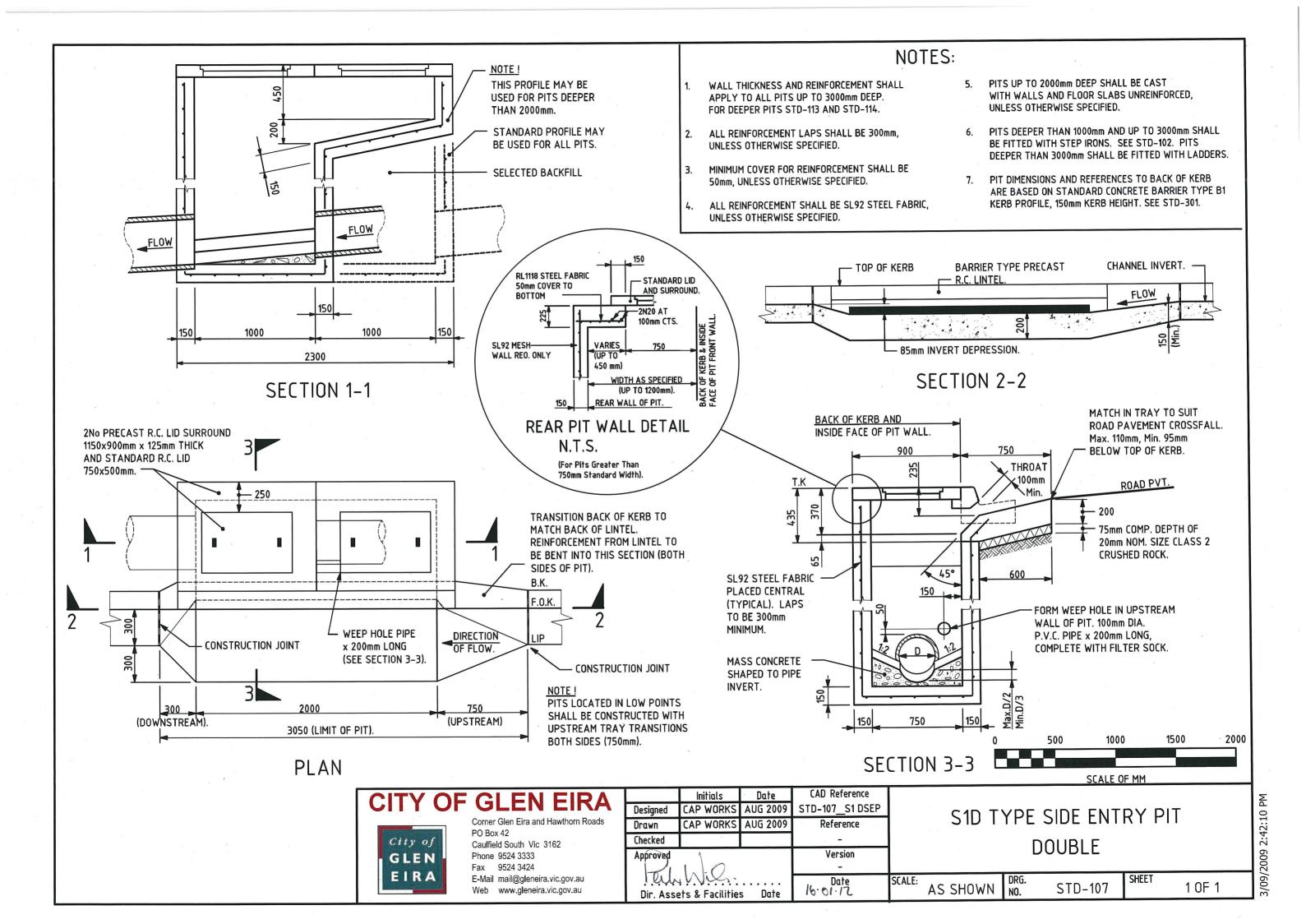
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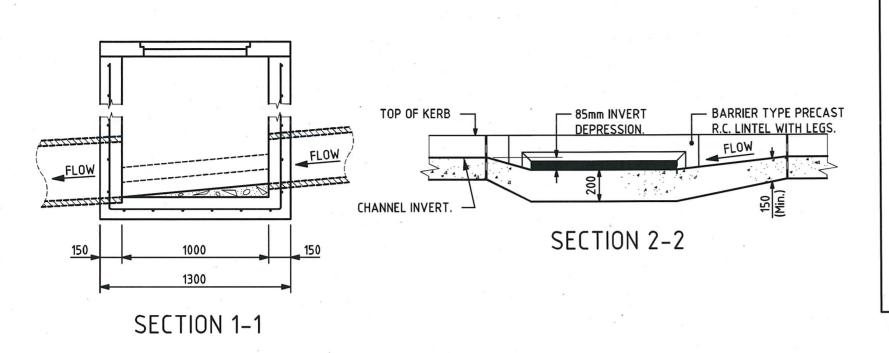
LARGE JUNCTION PIT TYPE B

2400 x 2400 x 5400mm MAX. DEPTH

1 OF 1 AS SHOWN STD-105B







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EIRA

NOTES:

- WALL THICKNESS AND REINFORCEMENT SHALL APPLY TO ALL PITS UP TO 3000mm DEEP, FOR DEEPER PITS SEE STD-113 AND STD-114.
- ALL REINFORCEMENT LAPS SHALL BE 300mm LONG.
- MINIMUM COVER TO REINFORCEMENT SHALL BE 50mm UNLESS 3. OTHERWISE SPECIFIED.
- ALL REINFORCEMENT SHALL BE SL92 STEEL FABRIC, UNLESS OTHERWISE SPECIFIED.
- PITS UP TO 2000mm DEEP SHALL BE CAST WITH WALLS AND FLOOR SLABS UNREINFORCED, UNLESS OTHERWISE SPECIFIED.
- PITS DEEPER THAN 1000mm AND UP TO 3000mm SHALL BE FITTED WITH STEP IRONS. SEE STD-102. PITS DEEPER THAN 3000mm SHALL BE FITTED WITH LADDERS.
- PIT DIMENSIONS AND REFERENCES TO BACK OF KERB ARE BASED ON STANDARD CONCRETE BARRIER TYPE B1 KERB PROFILE, 150mm KERB HEIGHT. SEE STD-301.

SHEET

STD-108

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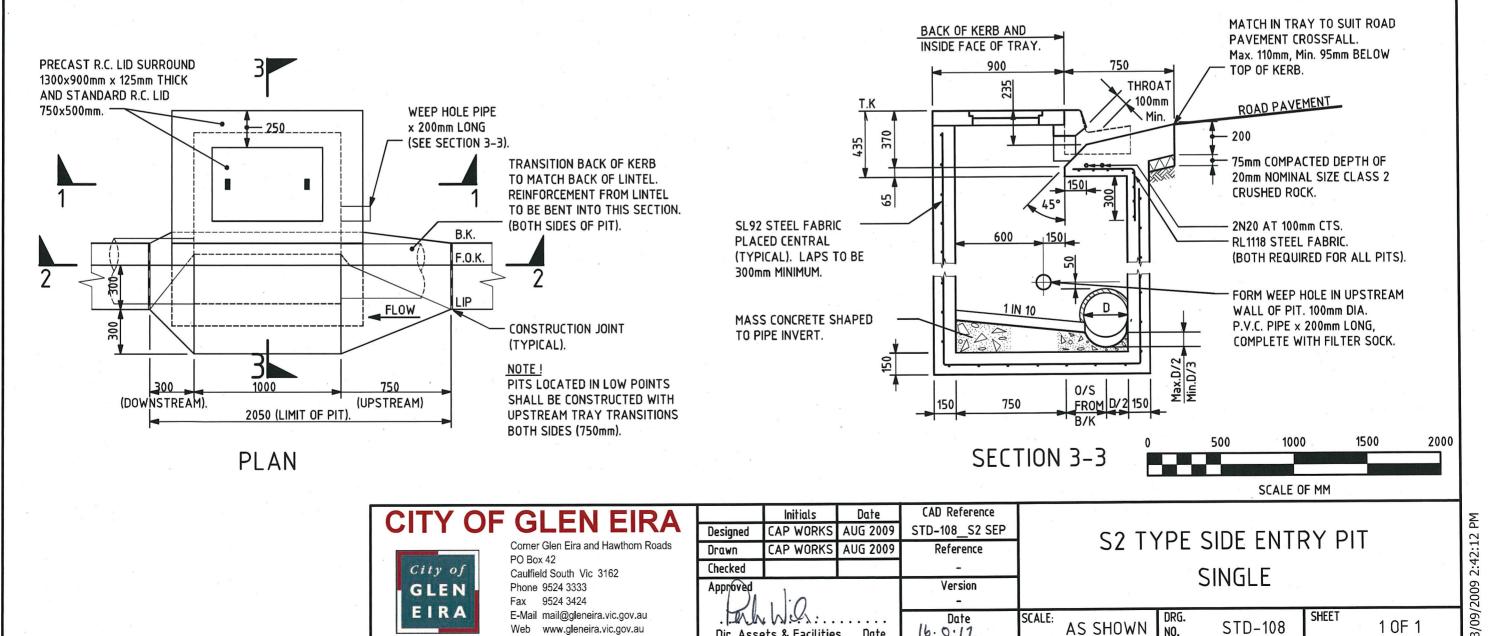
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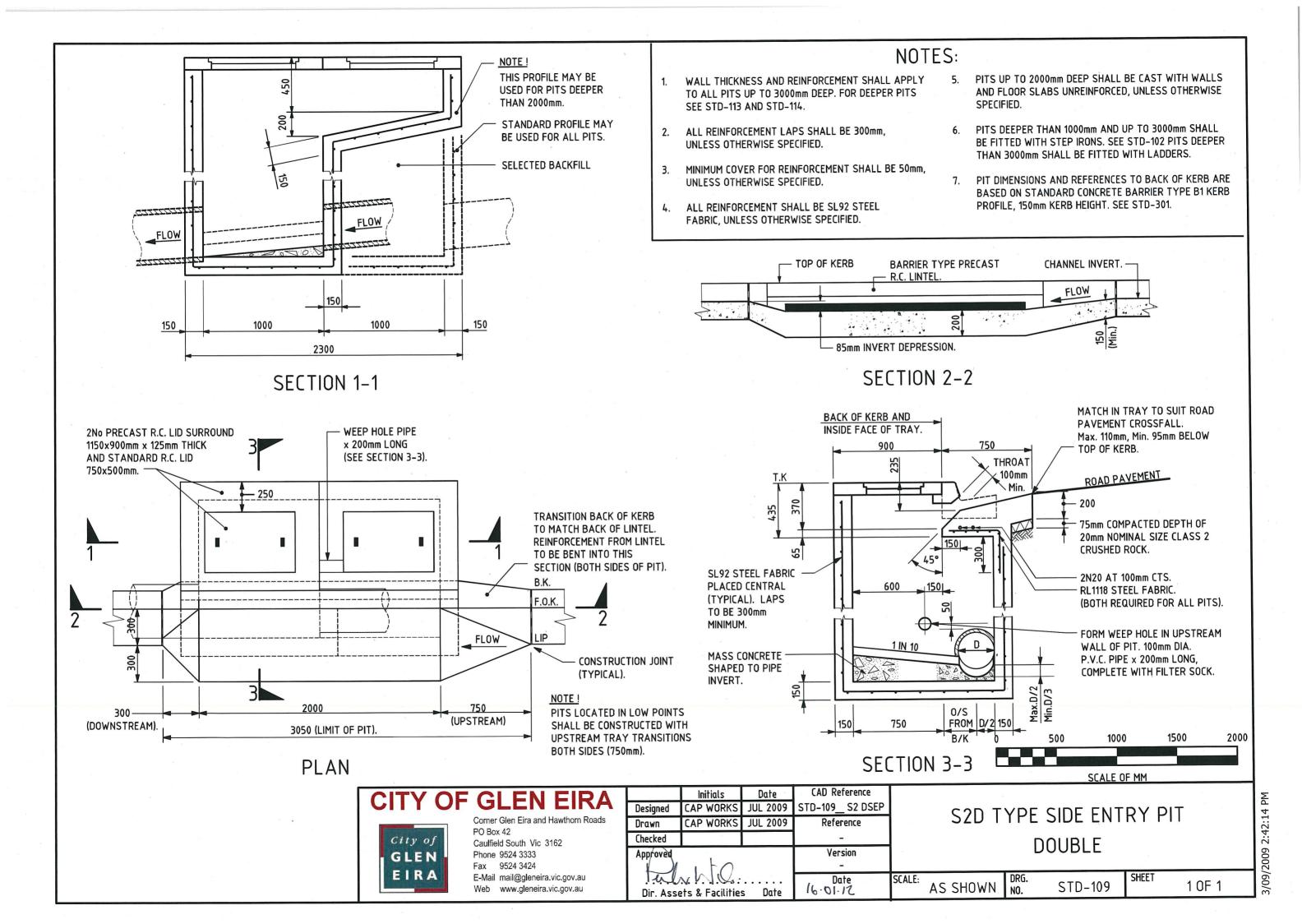
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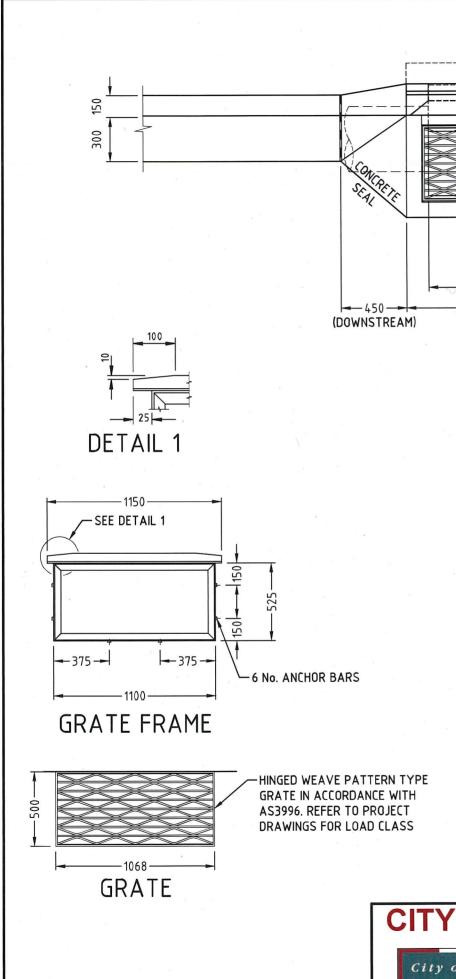
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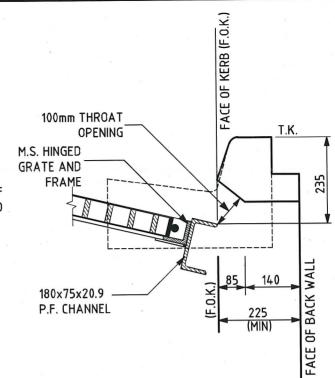


TRANSITION BACK OF KERB TO MATCH BACK OF LINTEL. -SET OUT POINT REINFORCEMENT FROM LINTEL TO BE BENT INTO THIS SECTION. -B TYPE LINTEL (BOTH SIDES OF PIT) BACK OF KERB LINE OF KERB LIP OF KERB DIRECTION EXPANSION JOINT 10 THICK SELF OF FLOW EXPANDING CORK OR APPROVED **EQUIVALENT** NOTE PITS LOCATED IN LOW POINTS SHALL BE CONSTRUCTED WITH **UPSTREAM TRAY TRANSITIONS** 1350 BOTH SIDES (1000mm). (UPSTREAM)

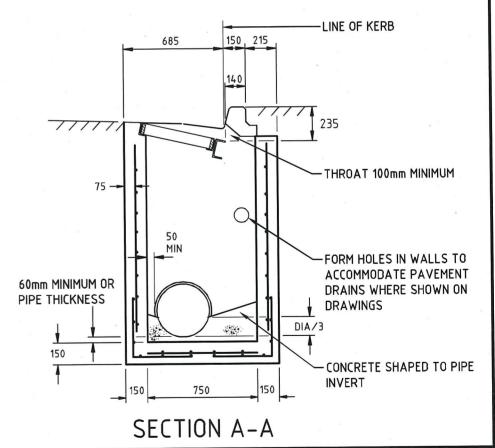
NOTES:

PLAN

- HAUNCHING MAY BE REQUIRED FOR PIPES OVER 450 DIAMETER. REFER TO PIT SCHEDULE FOR SIZES OF SPECIFIC PITS. PITS WITH HAUNCHING IN TWO DIRECTIONS REQUIRE SPECIAL STRUCTURAL DESIGN.
- 2. PIT REINFORCEMENT SL92. LAPS TO BE 300 MINIMUM. CLEAR COVER TO BE 50 MINIMUM. CORNER RETURN REINFORCEMENT MAY BE FABRIC OR EQUIVALENT BARS. BARS GRADE D500N & FABRICS TO COMPLY WITH AS/NZS 4671. CONCRETE SHALL BE NORMAL-CLASS N32 STANDARD STRENGTH GRADE OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS 1379. EXPOSURE CLASSIFICATIONS UP TO AND INCLUDING B1.
- 3. PITS DEEPER THAN 1000 SHALL BE FITTED WITH STEP IRONS. REFER TO STD-102.
- 4. CONCRETE LINTEL IS REQUIRED TO SUPPORT A TEST LOAD OF 100 kN IN ACCORDANCE WITH VICROADS' "INTERIM TEST METHOD FOR TEST LOADING PIT COVERS, LINTELS AND LIDS."
- 5. PRECAST UNITS MAY BE CONSTRUCTED TO THE MANUFACTURER'S DETAILS. THE DESIGN SHALL COMPLY WITH THE AS 5100 BRIDGE DESIGN AND THE FOLLOWING ADDITIONAL REQUIREMENTS:
 - a. COMBINED FACTORED LATERAL PRESSURE AT ANY POINT AT THE ULTIMATE LIMIT STATE SHALL BE NOT LESS THAN 25 kPa.
 - ADEQUATE DRAINAGE SHALL BE PROVIDED TO PIT WALLS TO AVOID HYDROSTATIC PRESSURE.
 - c. VERTICAL LOAD 210 kN APPLIED ANYWHERE ON PIT.
 - d. MINIMUM REINFORCEMENT AREA SHALL BE 150 mm² /m.
 - e. CONCRETE SHALL BE NORMAL-CLASS N32 STANDARD STRENGTH GRADE OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS 1379. EXPOSURE CLASSIFICATIONS UP TO AND INCLUDING B1.
- 6. GRATE FRAME SHALL BE CONSTRUCTED FROM 75x50x8 MS ANGLE. EACH CORNER SHALL BE CHAMFERED ON UNDERSIDE OF HORIZONTAL LEG AND ON INSIDE OF VERTICAL LEG BEFORE WELDING WITH SINGLE V BUTT WELD. FRAME TO BE WELDED TO 125 X 65 13.4kg/m TF CHANNEL.
- BOTH GRATE AND GRATE FRAME SHALL BE HOT DIP GALVANIZED TO AS 1650 UNLESS SPECIFIED OTHERWISE.
- 8. PRECAST CONCRETE LINTELS IN ACCORDANCE WITH GECC STANDARD DRAWING STD-104.



SECTION THROUGH GRATE



CITY OF GLEN FIR

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	Initials Date		CAD Ref	erence	
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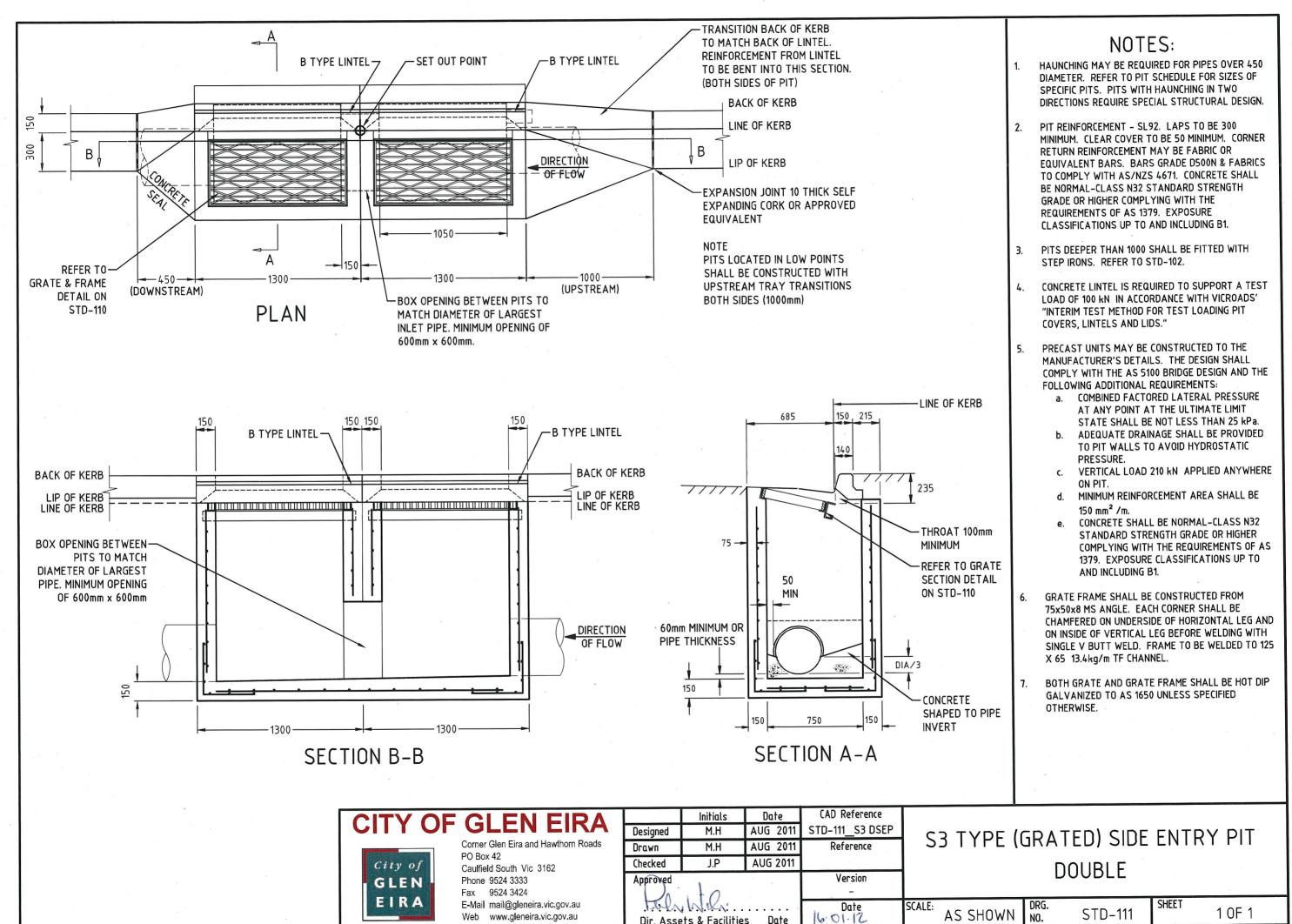
S3 TYPE (GRATED) SIDE ENTRY PIT SINGLE

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STD-110 SHEE

HEET 1 OF 1

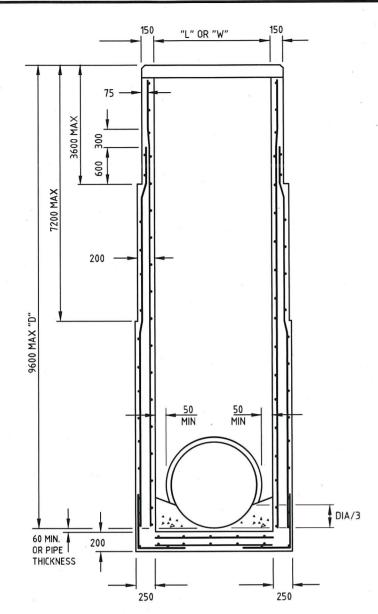
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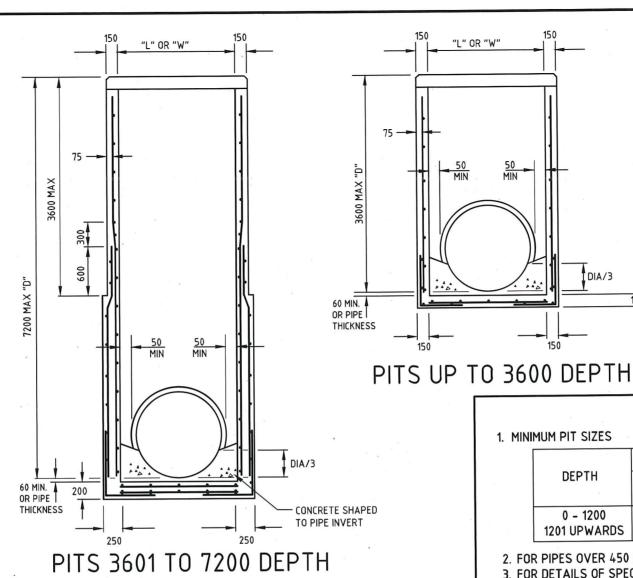


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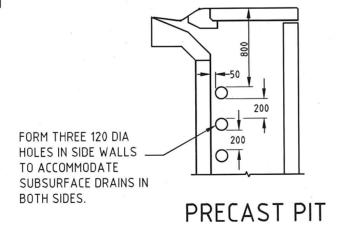






REINFORCEMENT DETAILS

PIT LENGTH "L"	REINFORCEMENT
UP TO 1200	SL92
1201 TO 1800	RL918
1801 TO 2400	RL1218



NOTES:

250

S ₹

300

MIN 450

CORNER DETAILS PLAN VIEW

1. MINIMUM PIT SIZES

"L" OR "W"

50 MIN

-	INTERNAL	DIMENSIONS
DEPTH	PITS IN	PITS IN OTHER
	TRAFFIC LANES	LOCATIONS
0 - 1200	750 x 750	750 x 750
1201 UPWARDS	750 x 750	750 x 1000

- 2. FOR PIPES OVER 450 DIA. HAUNCHING MAY BE REQUIRED. REFER STD-114.
- 3. FOR DETAILS OF SPECIFIC PITS REFER TO PIT SCHEDULE.
- 4. PIT REINFORCEMENT DETAILS ARE SHOWN IN TABLE. FABRIC IN SHAFT SHALL HAVE THE MAIN BARS POSITIONED HORIZONTALLY. LAPS TO BE 300 MIN. CLEAR COVER TO BE 50 MIN. CORNER RETURN REINFORCEMENT MAY BE FABRIC OR EQUIVALENT BARS. BARS GRADE 500N & FABRICS TO COMPLY WITH AS/NZS 4671. CONCRETE SHALL BE NORMAL CLASS N32 STANDARD STRENGTH GRADE OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS 1379. EXPOSURE CLASSIFICATIONS UP TO AND INCLUDING B1.
- 5. PITS DEEPER THAN 1000 SHALL BE FITTED WITH STEP IRONS, REFER STD-102.
- 6. FOR TOP OF PIT DETAILS, REFER TO PIT SCHEDULE AND RELEVANT STANDARD DRAWINGS.
- 7. PRECAST UNITS MAY BE CONSTRUCTED TO THE MANUFACTURER'S DETAILS. DESIGN SHALL COMPLY WITH THE AS 5100 BRIDGE DESIGN AND THE FOLLOWING ADDITIONAL REQUIREMENTS: - COMBINED FACTORED LATERAL PRESSURE AT ANY POINT AT THE ULTIMATE LIMIT STATE
- SHALL BE NOT LESS THAN 25 kPa.
- -ADEQUATE DRAINAGE SHALL BE PROVIDED TO PIT WALLS TO AVOID HYDROSTATIC PRESSURE.
- -VERTICAL LOAD 210 kN APPLIED ANYWHERE ON PIT.
- -MINIMUM REINFORCEMENT AREA SHALL BE 150mm²/m.

AS SHOWN

- -CONCRETE SHALL BE NORMAL CLASS N32 STANDARD STRENGTH GRADE OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS 1379. EXPOSURE CLASSIFICATIONS UP TO AND **INCLUDING B1.**
- 8. SUBSURFACE DRAIN HOLES TO BE SEALED IF NOT USED.

CITY OF GLEN EIRA



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Caulfield South Vic 3162 Phone 9524 3333

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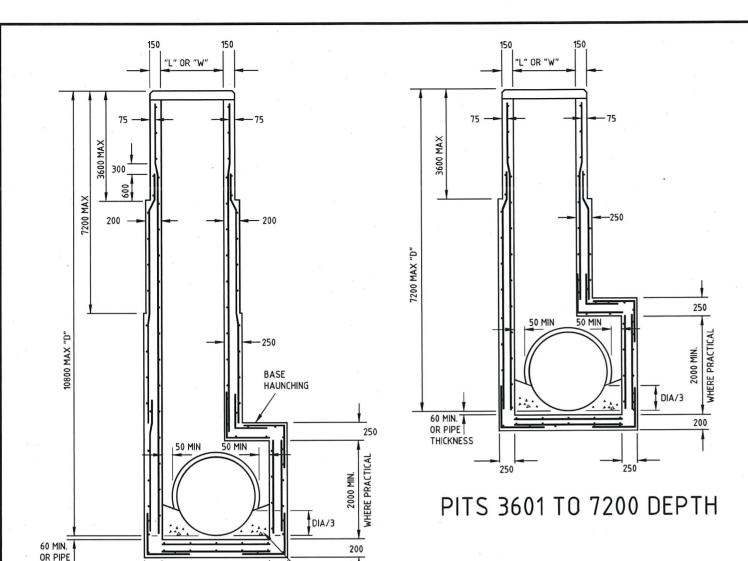
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UNHAUNCHED PITS

STD-113

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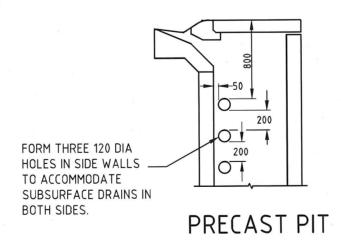
CONCRETE SHAPED

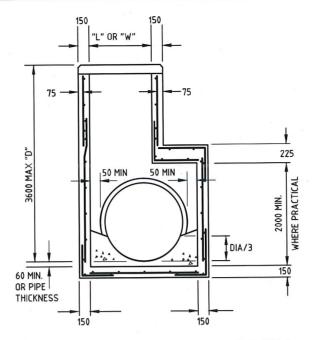
PITS 7201 TO 10800 DEPTH

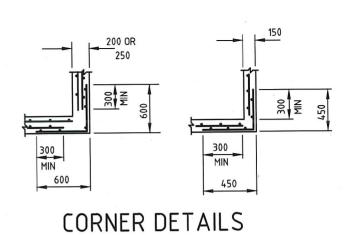
THICKNESS

REINFORCEMENT DETAILS

PIT LENGTH "L"	REINFORCEMENT
UP TO 1200	SL92
1201 TO 1800	RL918
1801 TO 2400	RL1218







PLAN VIEW

PITS UP TO 3600 DEPTH

NOTES:

1. MINIMUM PIT SIZES

	0 - 1200	INTERNAL DIMENSIONS				
		PITS IN	PITS IN OTHER			
		TRAFFIC LANES	LOCATIONS			
	0 - 1200	750 x 750	750 x 750			
	0 - 1200 1201 UPWARDS	750 x 750	750 x 1000			

- 2. PITS WITH HAUNCHING IN TWO DIRECTIONS REQUIRE SPECIAL STRUCTURAL DESIGN. THE STANDARD DETAILS DO NOT APPLY.
- 3. FOR DETAILS OF SPECIFIC PITS REFER TO PIT SCHEDULE.
- 4. PIT REINFORCEMENT DETAILS ARE SHOWN IN TABLE. FABRIC IN SHAFT SHALL HAVE THE MAIN BARS POSITIONED HORIZONTALLY. LAPS TO BE 300 MIN. CLEAR COVER TO BE 50 MIN. CORNER RETURN REINFORCEMENT MAY BE FABRIC OR EQUIVALENT BARS. BARS GRADE 500N & FABRICS TO COMPLY WITH AS/NZS 4671. CONCRETE SHALL BE NORMAL CLASS N32 STANDARD STRENGTH GRADE OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS 1379. EXPOSURE CLASSIFICATIONS UP TO AND INCLUDING B1.
- 5. PITS DEEPER THAN 1000 SHALL BE FITTED WITH STEP IRONS, REFER STD-102.
- 6. FOR TOP OF PIT DETAILS, REFER TO PIT SCHEDULE AND RELEVANT STANDARD DRAWINGS.
- 7. PRECAST UNITS MAY BE CONSTRUCTED TO THE MANUFACTURER'S DETAILS. DESIGN SHALL COMPLY WITH THE AS 5100 BRIDGE DESIGN AND THE FOLLOWING ADDITIONAL REQUIREMENTS:
- COMBINED FACTORED LATERAL PRESSURE AT ANY POINT AT THE ULTIMATE LIMIT STATE SHALL BE NOT LESS THAN 25 kPa.
- -ADEQUATE DRAINAGE SHALL BE PROVIDED TO PIT WALLS TO AVOID HYDROSTATIC PRESSURE.
- -VERTICAL LOAD 210 kN APPLIED ANYWHERE ON PIT.
- -MINIMUM REINFORCEMENT AREA SHALL BE 150mm²/m.
- -CONCRETE SHALL BE NORMAL CLASS N32 STANDARD STRENGTH GRADE OR HIGHER COMPLYING WITH THE REQUIREMENTS OF AS 1379. EXPOSURE CLASSIFICATIONS UP TO AND INCLUDING B1.
- 8. SUBSURFACE DRAIN HOLES TO BE SEALED IF NOT USED.

CITY OF GLEN EIRA



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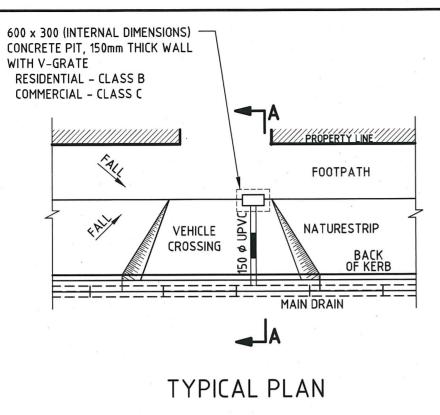
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HAUNCHED PITS

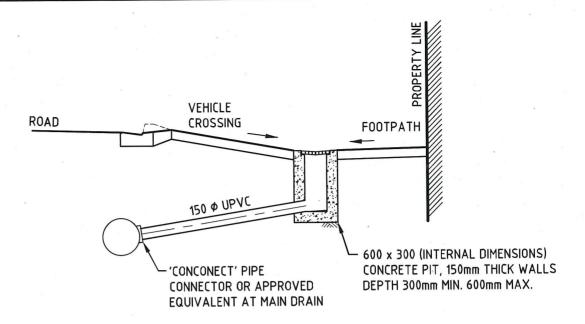
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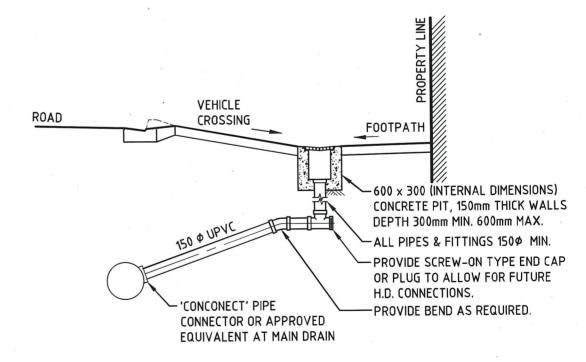
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- ALL PIPE AND FITTINGS USED SHALL BE 150mm (MINIMUM) SEWER CLASS U.P.V.C. AS INDICATED ON THE DETAIL PLANS.
- CARE IS TO BE TAKEN TO AVOID DAMAGE TO ANY UNDERGROUND SERVICES DURING EXCAVATION AND CONSTRUCTION OF HOUSE DRAINS.
- 3. HOUSE DRAINS ARE TO BE BEDDED ON 50mm COMPACTED DEPTH OF CLASS 3 C.R.
- CLASS 3 GRADED RECYCLED CONCRETE MAY BE USED FOR DRAIN TRENCH BACKFILL.



SECTION A-A. (TYPICAL). OPTION 1



SECTION A-A. (TYPICAL).
OPTION 2

SCALE:

AS SHOWN

Date

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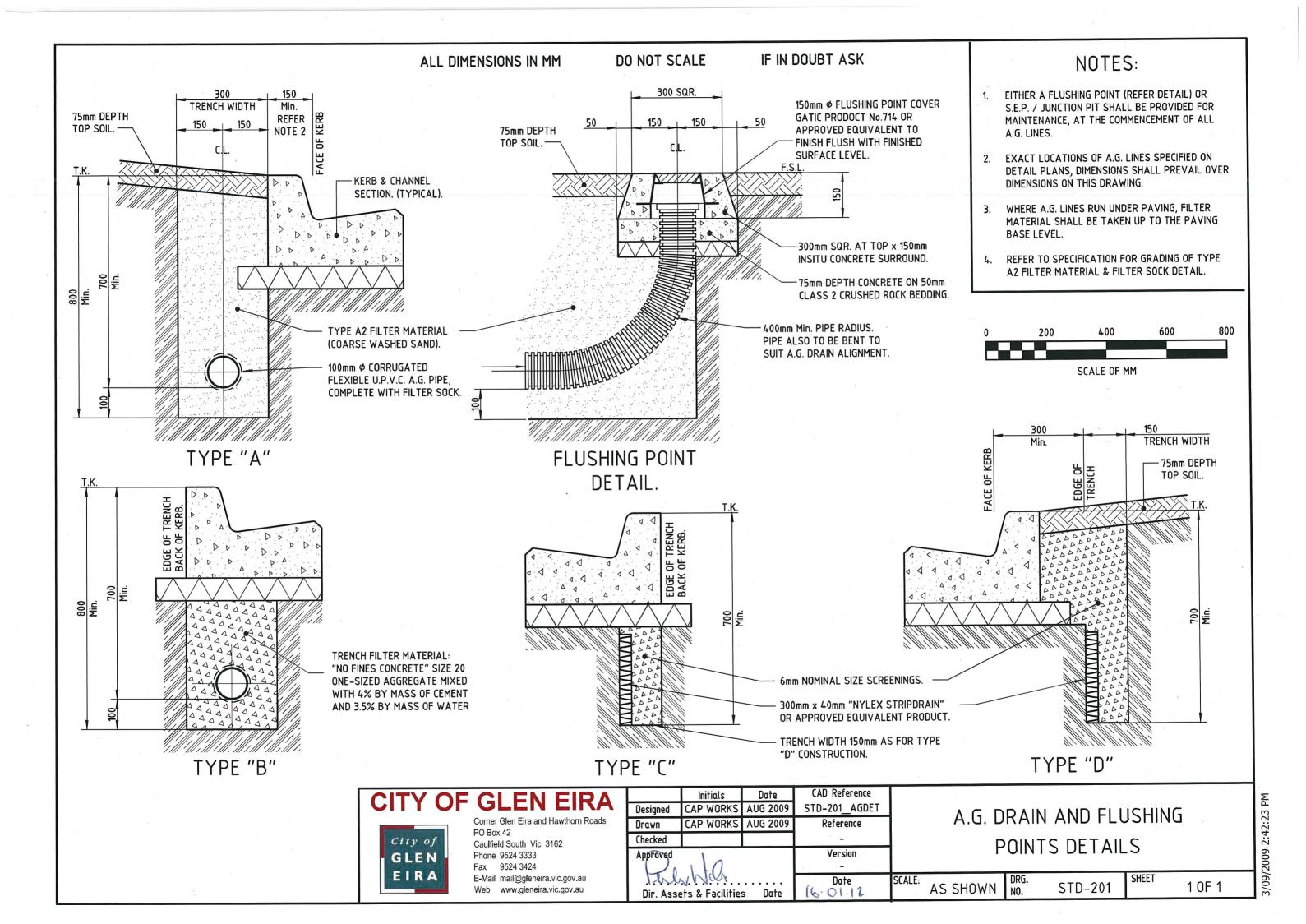
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VEHICLE CROSSING GRATED PIT

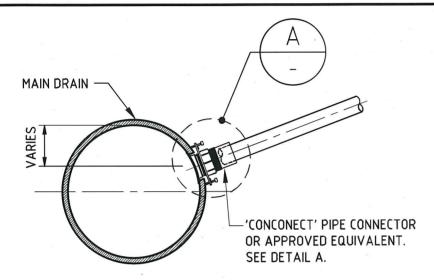
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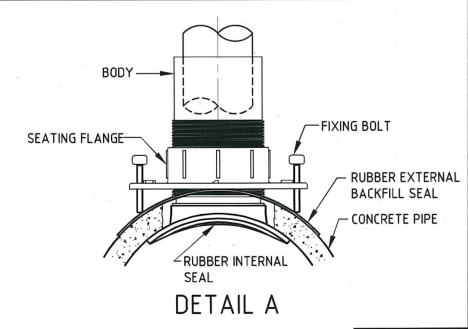


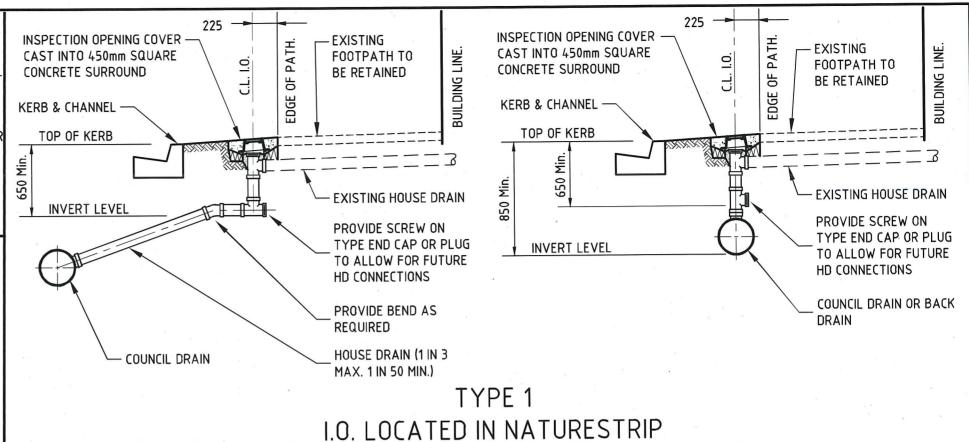


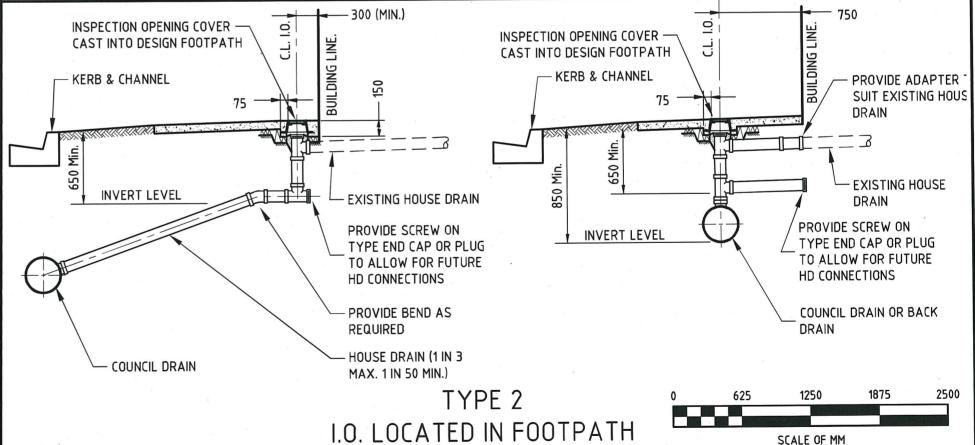
- ALL PIPE JOINERS AND FITTINGS USED SHALL BE 100mm OR 150mm SEWER CLASS UPVC AS INDICATED ON THE DETAIL PLANS AND APPROVED BY COUNCIL SUPERINTENDENT
- 2. CARE IS TO BE TAKEN TO AVOID DAMAGE TO ANY UNDERGROUND SERVICES DURING EXCAVATION AND CONSTRUCTION OF HOUSE DRAINS
- HOUSE DRAINS ARE TO BE BEDDED ON 50mm COMPACTED DEPTH OF CLASS 3 CR
 CLASS CC3 GRADED RECYCLED CONCRETE MAY BE USED FOR DRAIN TRENCH
- 4. CLASS CC3 GRADED RECYCLED CONCRETE MAY BE USED FOR DRAIN TRENCH BACKFILL
- 5. CAST IRON INSPECTION OPENING COVERS TO BE R&S GRATING PRODUCT FPCI50 OR APPROVED EQUIVALENT FOR 100mm Ø RISERS AND R&S GRATING PRODUCT FPC229 OR APPROVED EQUIVALENT FOR 150mm Ø RISERS



TYPE 3 (CONNECTION)







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HOUSE DRAIN INSPECTION OPENING AND CONNECTION

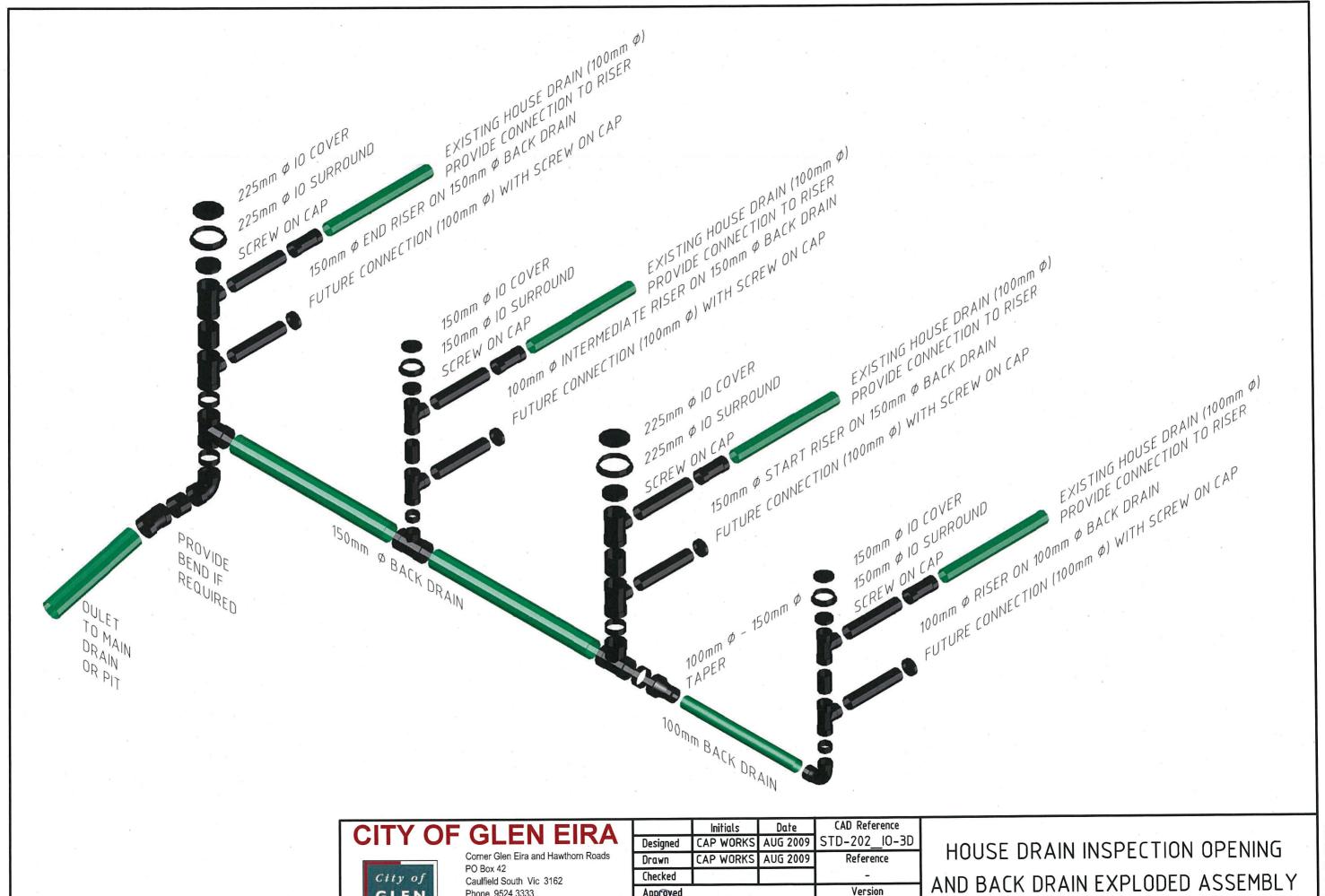
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16.01.12

Date

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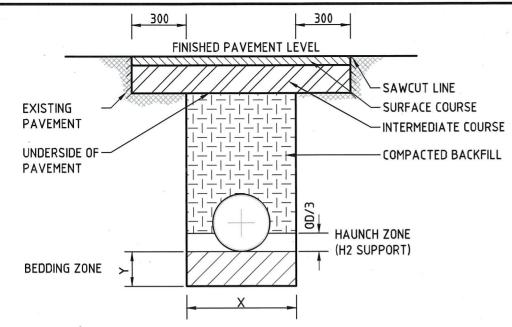
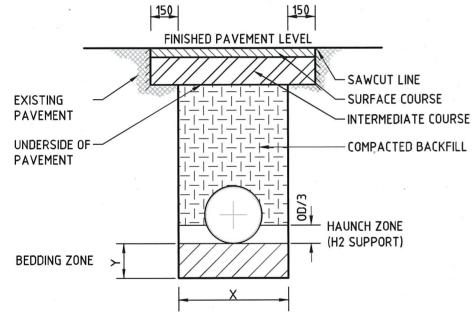


TABLE A						
PIPE Ø	BEDDING DEPTH (Y)					
mm	mm					
300 - 450	75					
525 - 1050	100					
1200 - 1500	125					
1650 or greater	150					

VIC ROADS MAIN ROADS - PIPE TRENCH DETAIL

NOT TO SCALE



	PIPE Ø		TH "X" (MIN.)				
		depth < 1.5m	depth > 1.5m				
	mm	mm	mm				
	300	600	900				
-	375 - 450	750	1050				
	525	900	1200				
	600 - 675	1050	1350				
	750 - 825	1200	1500				
	900	1350	1650				
	1050	1500	1800				
	1200	N/A	2000				
	1350	N/A	2150				
	1500	N/A	2300				
	1650	N/A	2500				
	1800	N/A	2700				

TABLE B

COUNCIL LOCAL ROADS - PIPE TRENCH DETAIL NOT TO SCALE

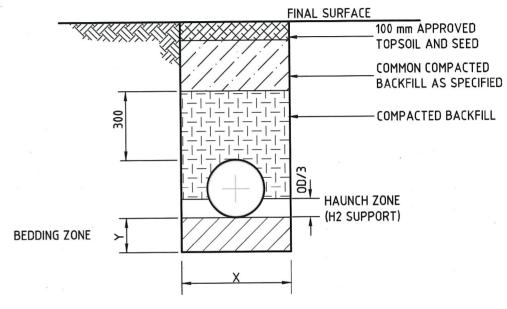
NOTE:

- 1. COMPACTED BACKFILL TO BE CLASS 3 FINE CRUSHED ROCK OR CLASS CS3 CRUSHED CONCRETE
- 2. HAUNCH ZONE TO BE 20mm AGGREGATE MATERIAL AS SPECIFIED
- 3. BEDDING ZONE TO BE CLASS 3 FINE CRUSHED ROCK COMPACTED DEPTH "Y" AS SHOWN IN
- 4. TRENCH WIDTH "X" AS SHOWN IN TABLE B
- 5. COMPACTION TO BE 97% BY CHARACTERISTIC VALUE OF DENSITY RATIO (IN 150mm LAYERS) TESTING - EVERY 50m OR BETWEEN PITS, WHICH EVER IS GREATER, AT TOP OF CLASS 3 LEVEL

IMPORTANT NOTE!

TRENCH SUPPORT MUST BE PROVIDED FOR DEPTH GREATER THAN 1.5m AS PER THE MINES ACT 1958. WORKSAFE VICTORIA TO BE CONTACTED 3 DAYS PRIOR TO **EXCAVATION WORKS FOR TRENCHES** GREATER THAN 1.5m

COMPACTION TO BE 97% BY CHARACTERISTIC VALUE OF DENSITY RATIO (IN 150mm LAYERS) TESTING IS NOT REQUIRED.



NOTE:

- 1. COMPACTED BACKFILL TO BE CLASS 3 FINE CRUSHED ROCK OR CLASS CC3 CRUSHED
- 2. HAUNCH ZONE TO BE 20mm AGGREGATE MATERIAL AS SPECIFIED
- 3. BEDDING ZONE TO BE CLASS 3 FINE CRUSHED ROCK COMPACTED DEPTH "Y" AS SHOWN IN TABLE A
- 4. TRENCH WIDTH "X" AS SHOWN IN TABLE B

PIPE TRENCH DETAIL -NATURE STRIPS NOT TO SCALE



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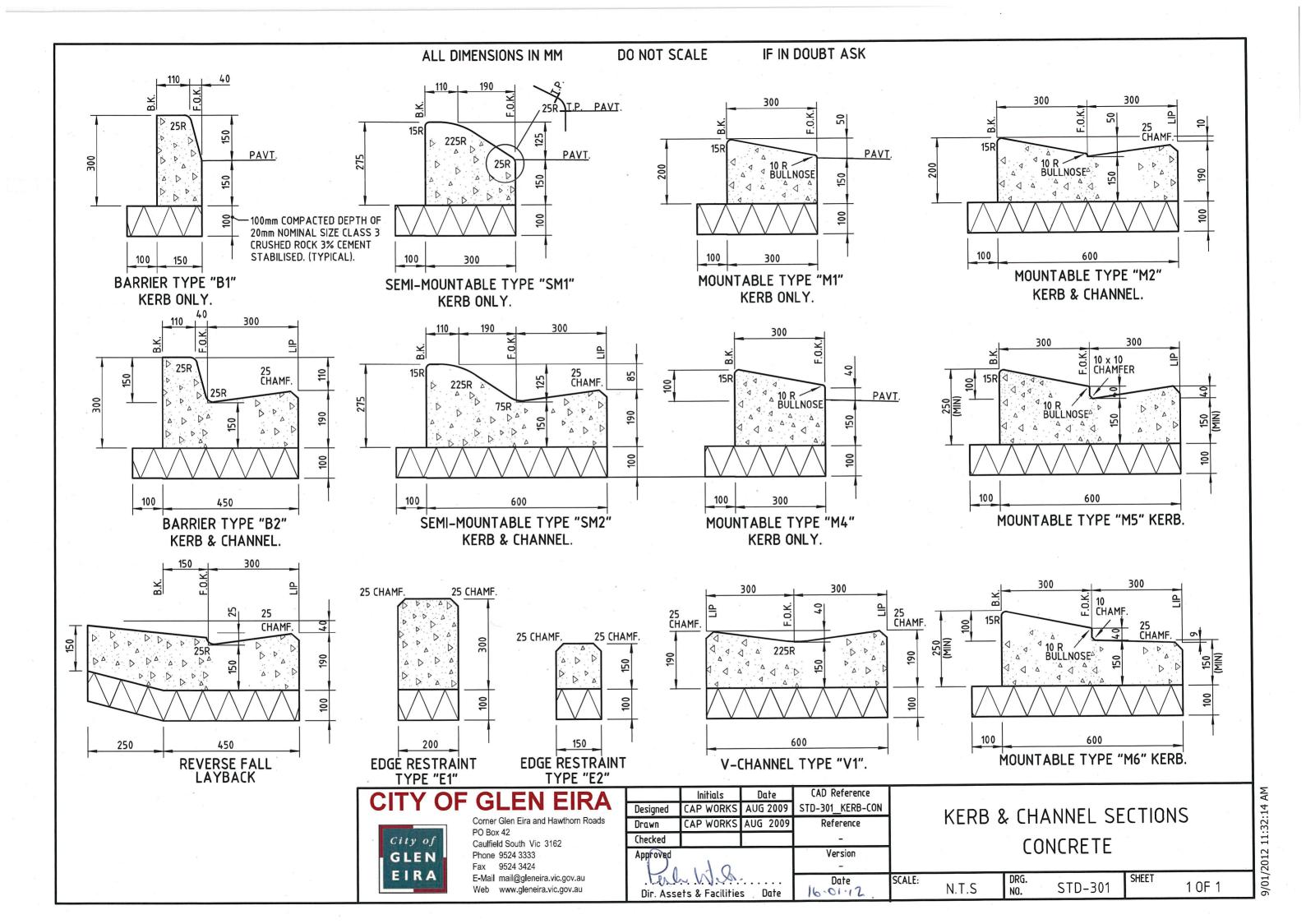
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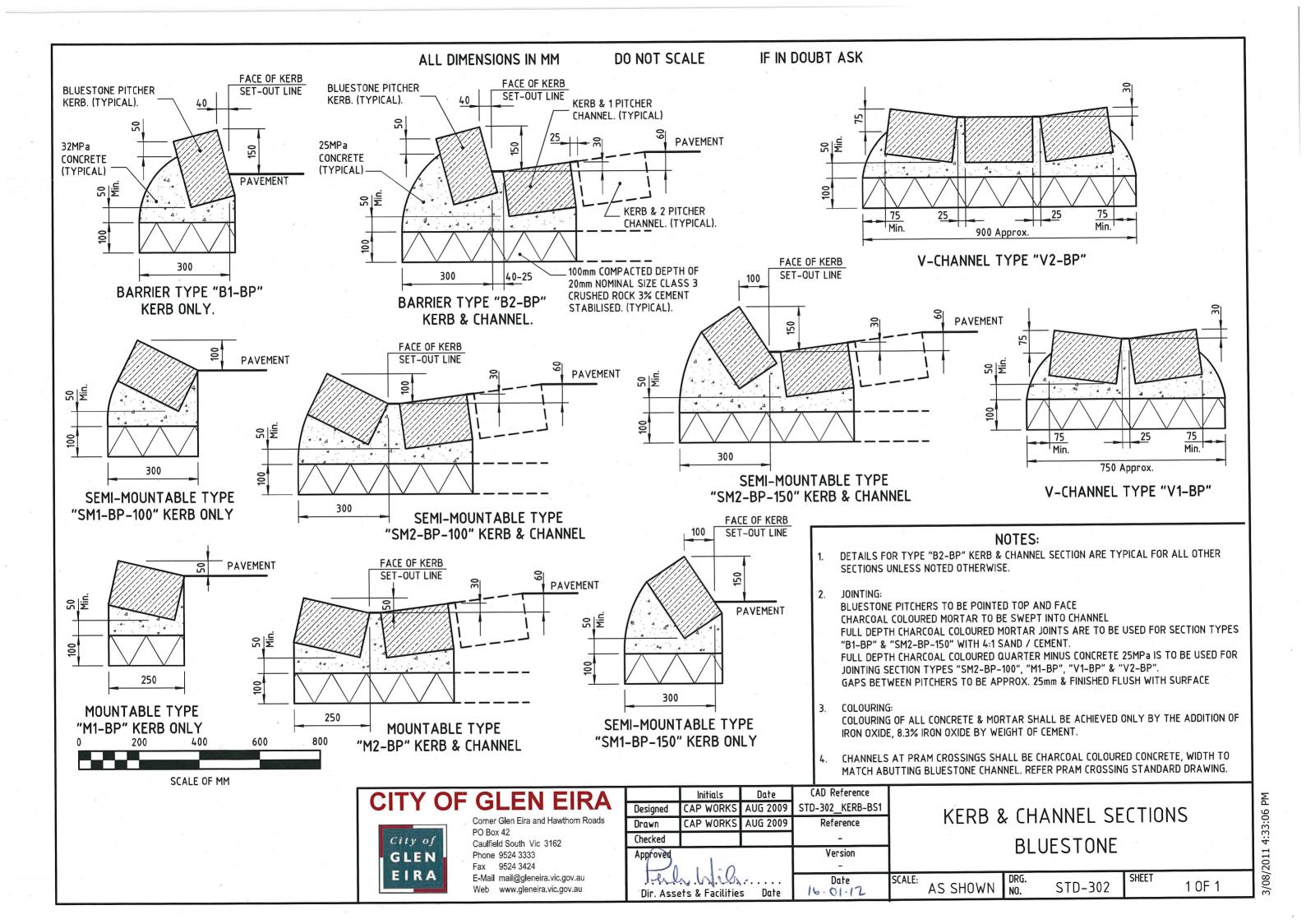
PIPE BEDDING AND BACKFILL DETAILS

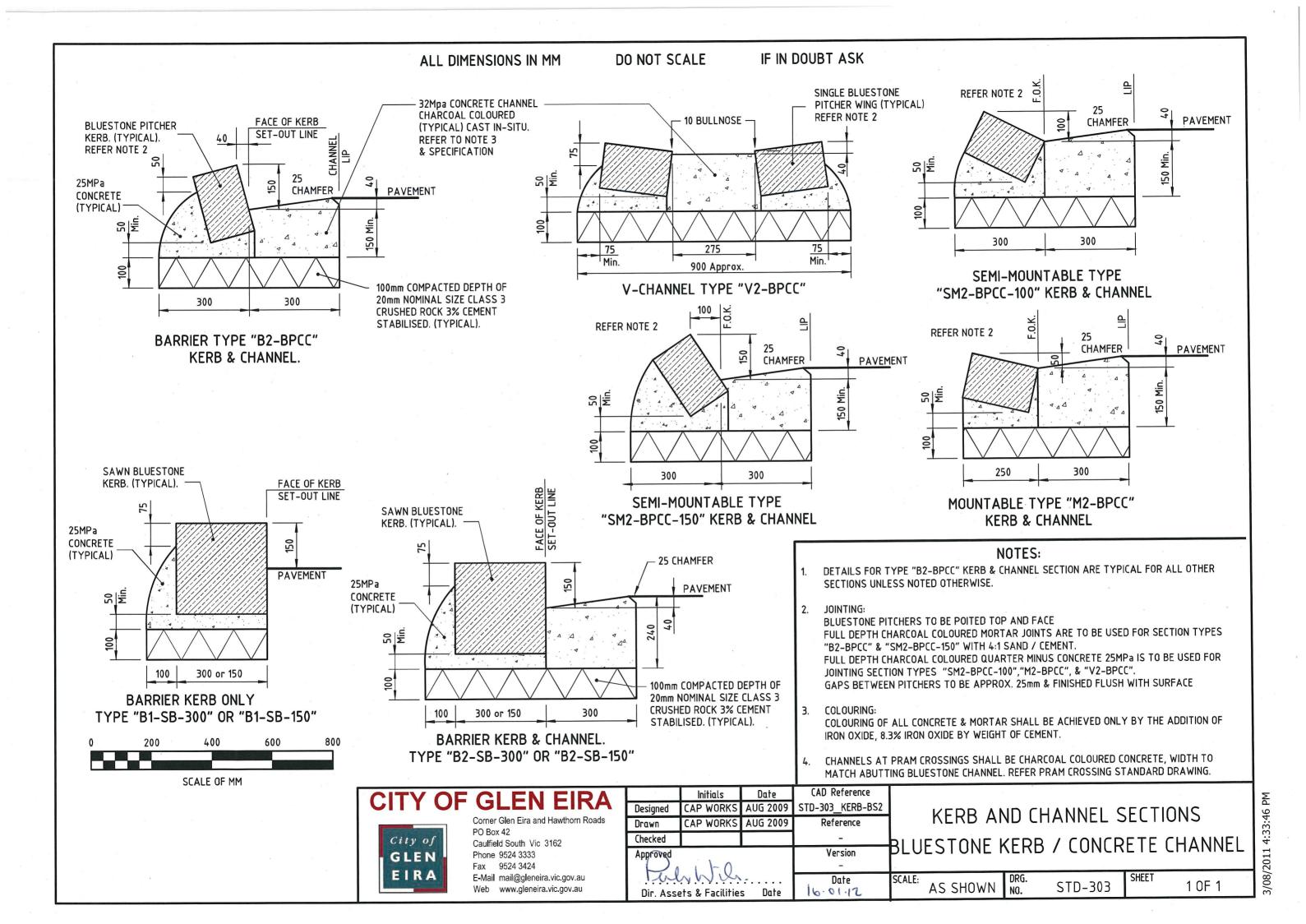
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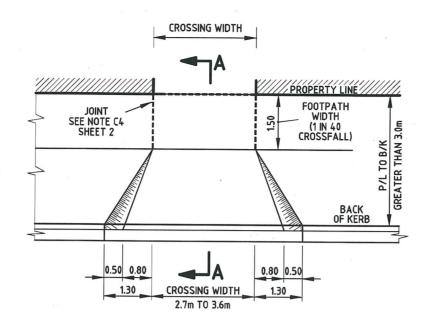


- EXISTING KERB AND CHANNEL MATERIALS TO BE MAINTAINED
- 2. VEHICLE CROSSINGS TO BE CONSTRUCTED 3.0m CLEAR FROM COUNCIL TREES. CROSSINGS CLOSER THAN 3.0m FROM THE TREE TRUNK REQUIRE COUNCIL ARBORIST INSPECTION AND REPORT
- 3. REVERSE CROSSFALL TYPE VEHICLE CROSSING TO BE CONSTRUCTED WHERE THE TOP OF THE KERB IS GREATER THAN:

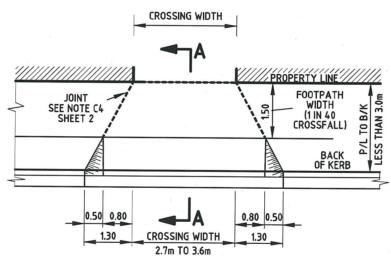
60mm FOR FOOTWAY > 3.0m_or 70mm FOR FOOTWAY < 3.0m

ABOVE THE PROPERTY LINE (TO ACHIEVE 1% MINIMUM SLOPE)

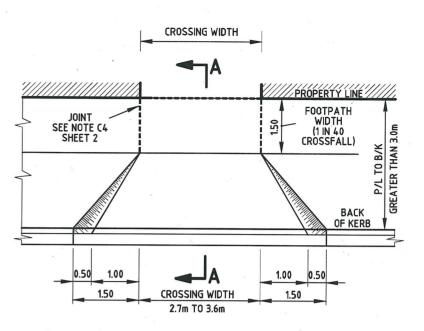
- 4. VEHICLE CROSSINGS WITH INFILL AT A SLOPE GREATER THAN I IN 10 (DESIGN IN ACCORDANCE WITH AS2890.1 TO BE SUBMITTED TO GECC FOR REVIEW AND APPROVAL)
- 5. ON COMPLETION:
 - -APPROVED TOPSOIL TO BE SPREAD IN NATURESTRIP AREA AND SEEDED
- 6. -THE SITE SHALL BE CLEANED AND WASHED OF ALL CONSTRUCTION MATERIAL
- 7. CONCRETE STRENGTH = 32MPa



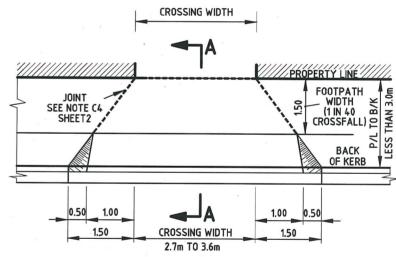
TYPICAL PLAN (COUNCIL ACCESS ROADS) P/L TO B/K GREATER THAN 3.0 m



TYPICAL PLAN
(COUNCIL ACCESS ROADS)
P/L TO B/K LESS THAN 3.0 m



TYPICAL PLAN (COUNCIL LINK/COLLECTOR ROADS) P/L TO B/K GREATER THAN 3.0 m



TYPICAL PLAN
(COUNCIL LINK/COLLECTOR ROADS)
P/L TO B/K LESS THAN 3.0 m



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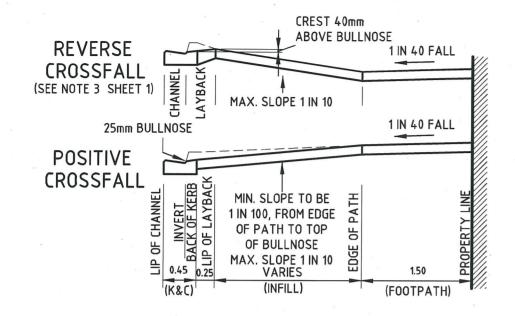
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VEHICLE CROSSING DETAILS
- LAYOUT

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CONCRETE CROSSING



SECTION A-A. (TYPICAL).

SIZE 20 CLASS 2 CRUSHED ROCK

125mm DEPTH (UNREINFORCED) 50mm COMPACTED DEPTH OF EITHER SAND OR

COMMERCIAL 150mm DEPTH SL72 MESH PLACED CENTRAL) 50mm COMPACTED DEPTH OF EITHER SAND OR SIZE 20 CLASS 2 CRUSHED ROCK

INDUSTRIAL 200mm DEPTH (SL72 PLACED TOP & BOTTOM 50mm COVER) 50mm COMPACTED DEPTH OF EITHER SAND OR SIZE 20 CLASS 2 CRUSHED ROCK

CROSS SECTION

N.T.S.

CONCRETE NOTES:

C1. SEE GENERAL NOTES ON SHEET 1

C2. CONCRETE STRENGTH = 32 MPa.

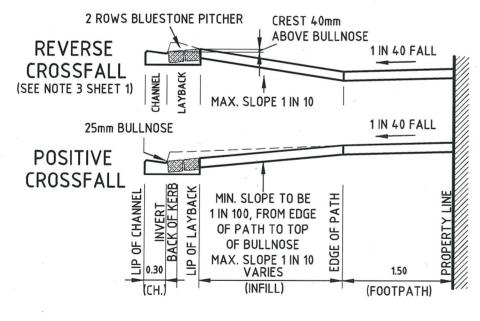
C3. IF NOMINATED. CHARCOAL CONCRETE COLOUR TO BE ACHIEVED BY THE ADDITION OF 8.3% IRON OXIDE DYE BY WEIGHT OF CEMENT

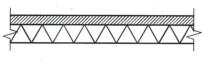
C4. EXPANSION JOINTS (15mm ABELFLEX OR APPROVED EQUIVALENT) TO BE PROVIDED AT EXISTING FOOTPATH AND ALONG THE PROPERTY LINE, TRIMMED AND CAULKED TO MATCH FINISHED LEVELS

C5. CONTRACTION JOINTS SHALL BE PROVIDED IN BOTH DIRECTIONS AT INTERVALS OF 1.0m TO 2.5m

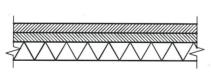
C6. SAWCUT EXISTING CONCRETE OR ASPHALT PAVING AND KERB & CHANNEL ALONG BREAKOUT LINES WHERE REQUIRED

ASPHALT CROSSING





RESIDENTIAL 50mm DEPTH OF SIZE 10 N.S.B.C. 100mm COMPACTED DEPTH OF SIZE 20 CLASS 2 CRUSHED ROCK



COMMERCIAL 50mm DEPTH OF SIZE 10 N.S.B.C. 50mm DEPTH OF SIZE 10 N.S.B.C. 100mm COMPACTED DEPTH OF SIZE 20

CLASS 2 CRUSHED ROCK

INDUSTRIAL CONSTRUCT IN CONCRETE (AS ABOVE) USE CHARCOAL COLOUR

SECTION A-A. (TYPICAL).

CROSS SECTION

N.T.S.

ASPHALT NOTES:

A1. SEE GENERAL NOTES ON SHEET 1 A2. ASPHALT TO BE CONSTRUCTED WITH 75mm X 38mm REDGUM PLINTH ALONG THE NATURESTRIP A3. THE FINISHED SURFACE IS TO BE SMOOTH WITHOUTGROOVES, PITTING, LOOSE STONES OR EXPOSED

A4. ALL JOINTS TO EXISTING ASPHALT TO BE SAW CUT. CLEANED AND TACK COATED

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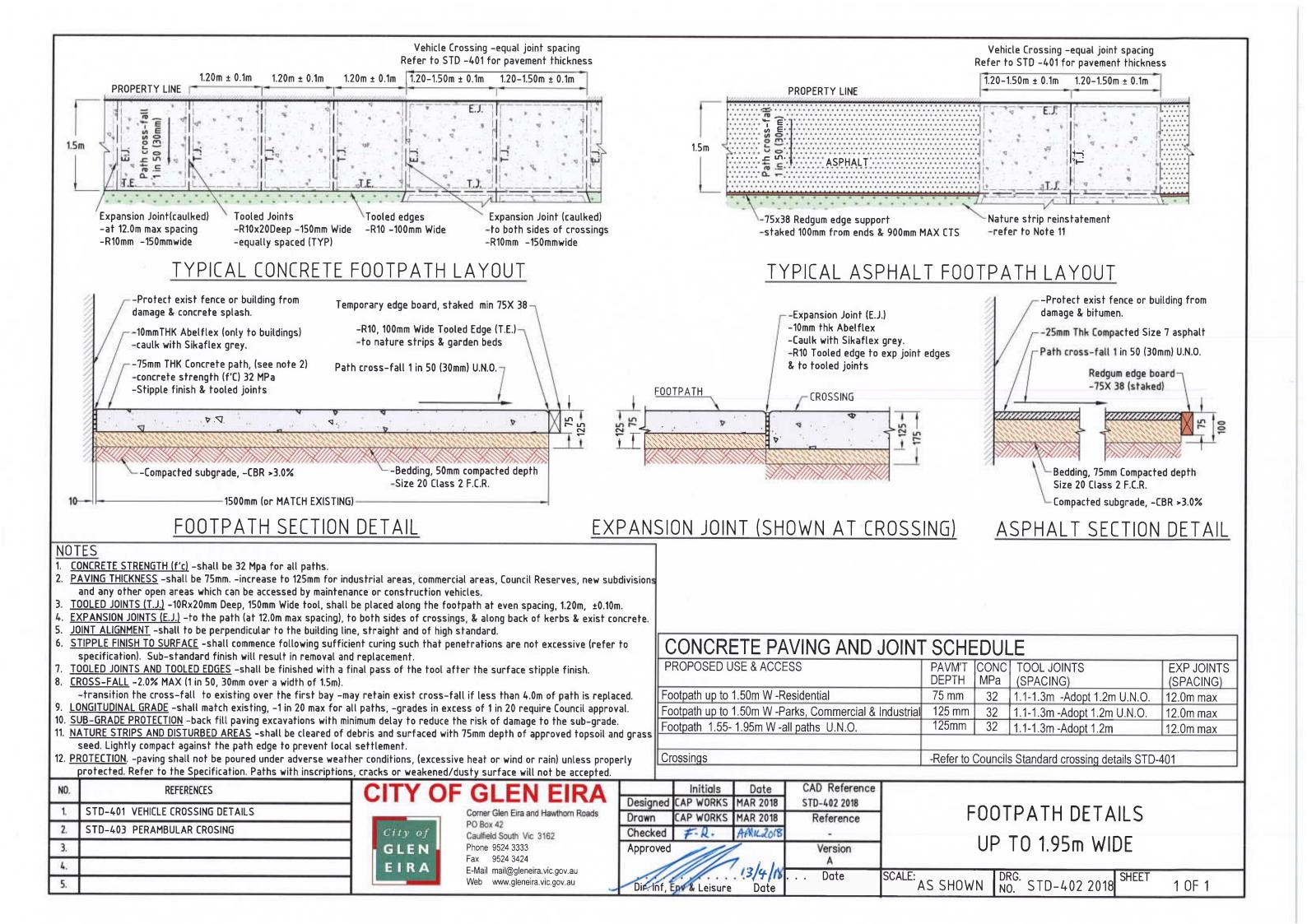
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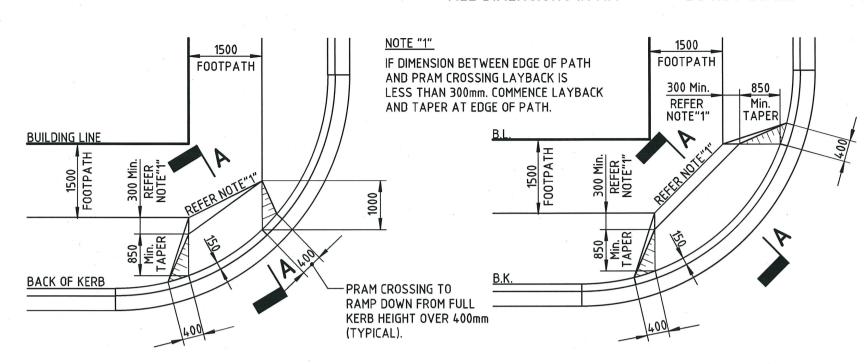
VEHICLE CROSSING DETAILS

- SECTIONS

AS SHOWN STD-401 2 OF 2

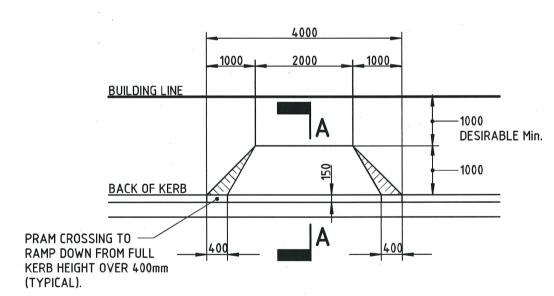
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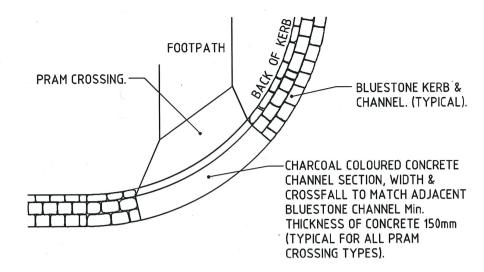


TYPE "1" PRAM CROSSING SINGLE

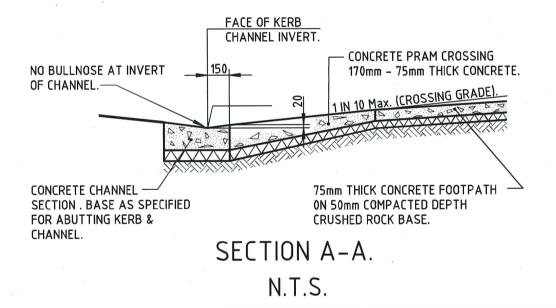
TYPE "2" PRAM CROSSING
DOUBLE



TYPE "3" PRAM CROSSING (AT MID BLOCK).



PRAM CROSSING FOR BLUESTONE CHANNEL.



NOTES:

- 1. IF DIMENSION BETWEEN EDGE OF PATH AND PRAM CROSSING IS LESS THAN 300mm. COMMENCE LAYBACK AND TAPER AT EDGE OF PATH.
- 2. THESE DETAILS TO BE READ IN CONJUNCTION WITH THE PROJECT DRAWINGS FOR THE SPECIFIC PRAM CROSSING TYPES AND LOCATIONS. CONSTRUCTION PLANS ARE TO BE ADOPTED, SHOULD THEY VARY FROM THESE STANDARD DETAILS.
- 3. CONCRETE STRENGTH = 32MPa

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PO Box 42

Caulfield South Vic 3162 Phone 9524 3333

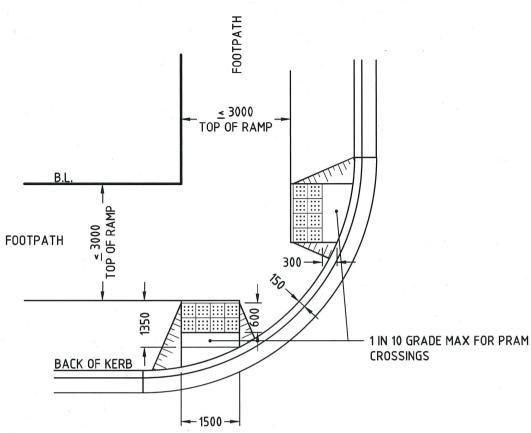
Fax 9524 3424

E-Mail mail@gleneira.vic.gov.au
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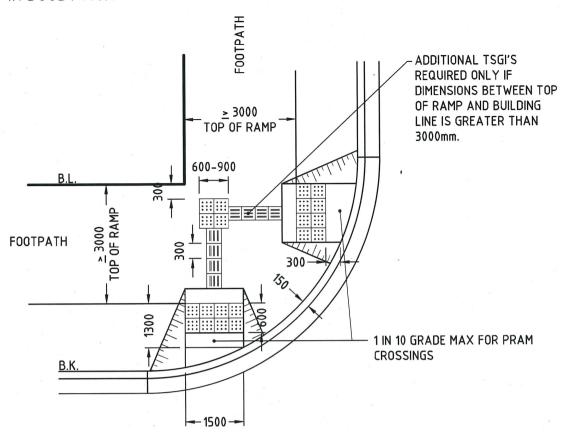
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PERAMBULATOR CROSSING DETAILS

SCALE: AS SHOWN NO. STD-403



TYPE "3" PRAM CROSSING DOUBLE (TSGI)



TYPE "4" PRAM CROSSING DOUBLE (TSGI)

TGSI NOTES:

1. LUMINANCE CONTRAST BETWEEN TSGI'S AND PAVEMENT BE TESTED IN ACCORDANCE WITH AS1428.4.1 – 2009

CITY OF GLEN EIRA



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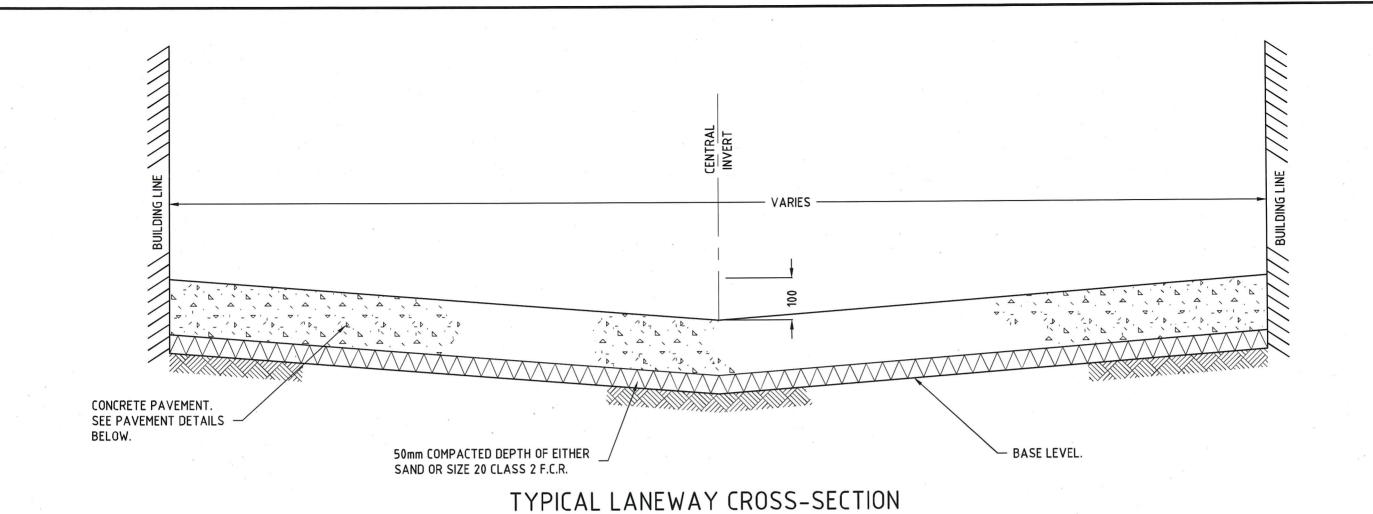
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PERAMBULATOR CROSSING DETAILS

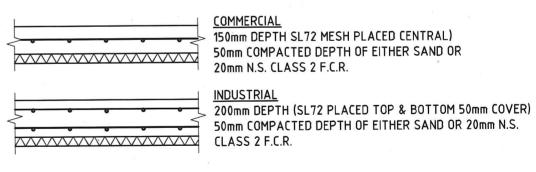
Dir. Assets & Facilities Date 20.03.12

AS SHOWN DRG.

RG. o. STD-403 SHEET 2 OF 2



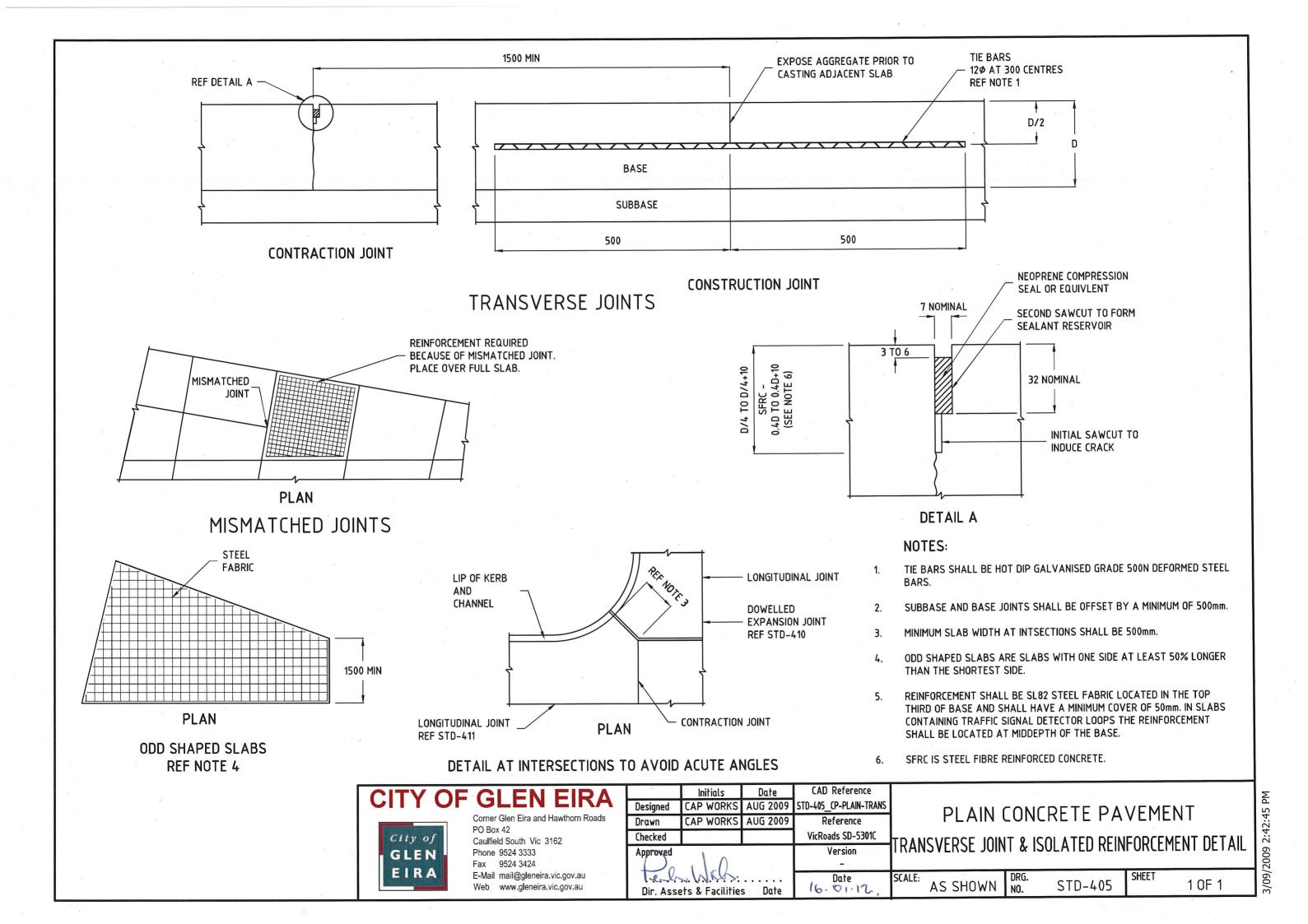
- 1. REFER TO STD-407 FOR REINFORCEMENT DETAILS
- REFER TO STD-408 FOR ISOLATION JOINT DETAILS AT PAVEMENT OPENINGS.
- 3. CONSTRUCTION JOINTS TO BE SPACED AT MAXIMUM 3m CENTRES, PERPENDICULAR TO THE LANEWAY. REFER TO STD-406 FOR DETAIL.
- 4. EXPANSION JOINTS TO BE PLACED AT A MAXIMUM SPACING OF 15m CENTRES. REFER TO STD-410 FOR DETAIL.
- 5. CONCRETE STRENGTH = 32 MPa

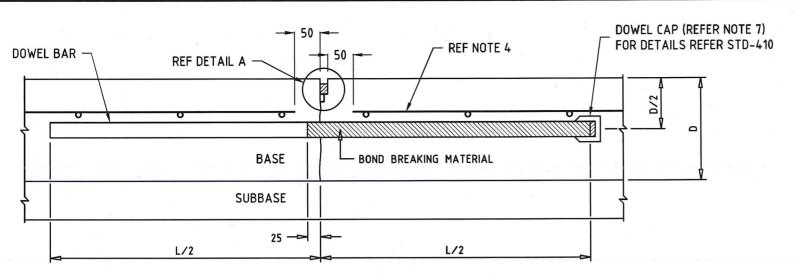


PAVEMENT DETAILS

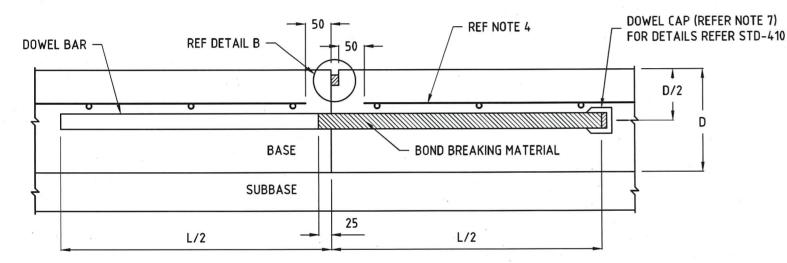
CITY OF	Corner Glen Eira and Hawthorn Roads PO Box 42 Caulfield South Vic 3162		Initials CAP WORKS CAP WORKS		CAD Reference STD-404_LANEWAY Reference -		LA	NEW	AY DETA	AILS,		2.EE.EO DM
GLEN	Phone 9524 3333 Fax 9524 3424	Approved	. 10	* *	Version -						 2	1 5
EIRA	E-Mail mail@gleneira.vic.gov.au Web www.gleneira.vic.gov.au	100 00 000 00 000	ets & Facilities		Date 16.01.12.	SCALE:	AS SHOWN	DRG. NO.	STD-404	SHEET	1 OF 1	7,007,6

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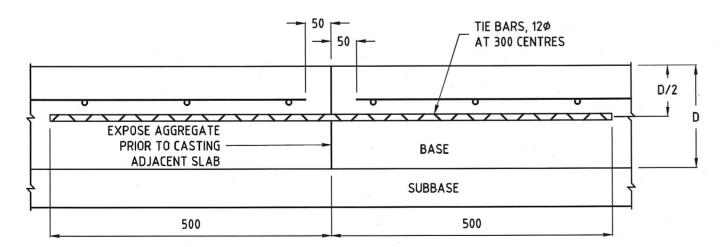




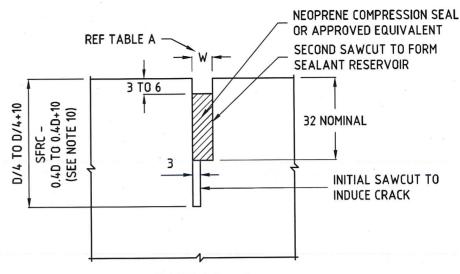
DOWELLED CONTRACTION JOINT

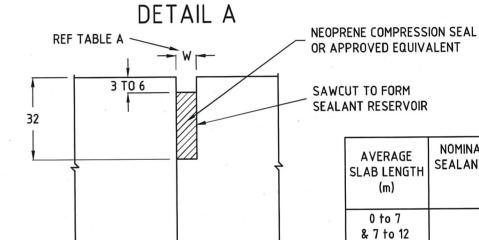


DOWELLED CONSTRUCTION JOINT - AT A CONTRACTION JOINT



TIED CONSTRUCTION JOINT - NOT AT A CONTRACTION JOINT





AVERAGE SLAB LENGTH (m)	NOMINAL WIDTH OF SEALANT RESERVOIF W (mm)
0 to 7	7
& 7 to 12	12
& 2 to 15	15

NOTES

- DOWEL BAR DIAMETER, LENGTH AND SPACING SHALL BE AS SPECIFIED IN THE SCHEDULE OF DETAILS.
- DOWELS SHALL BE:
 - SECURELY POSITIONED PARALLEL TO PAVEMENT CENTRELINE AND FINISHED SURFACE.

DETAIL B

- PART COATED AS SHOWN WITH APPROVED BOND BREAKING MATERIAL.
- 3. TIE BARS SHALL BE SECURELY POSITIONED PARALLEL TO PAVEMENT CENTRELINE AND FINISHED SURFACE.
- 4. STEEL FABRIC SHALL BE LOCATED IN THE TOP THIRD OF THE BASE AND SHALL HAVE A MINIMUM COVER OF STEEL FABRIC.
- 5. SUBBASE AND BASE TRANSVERSE JOINTS SHALL BE OFFSET BY A MINIMUM OF 500mm.
- 6. TIED CONSTRUCTION JOINTS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE SLAB LENGTH AND AT LEAST 1.5m FROM TRANSVERSE CONTRACTION JOINTS.
- 7. DOWEL CAP MAY BE OMITTED FOR SHORT SLAB (<5m) CONTRACTION JOINTS.
- SFRC IS STEEL FIBRE REINFORCED CONCRETE.

16.01.12

CITY OF GLEN EIRA



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٦		Initials	Date	CAD Reference
	Designed	CAP WORKS	AUG 2009	STD-406_CP-JR-TRANS
	Drawn	CAP WORKS	AUG 2009	Reference .
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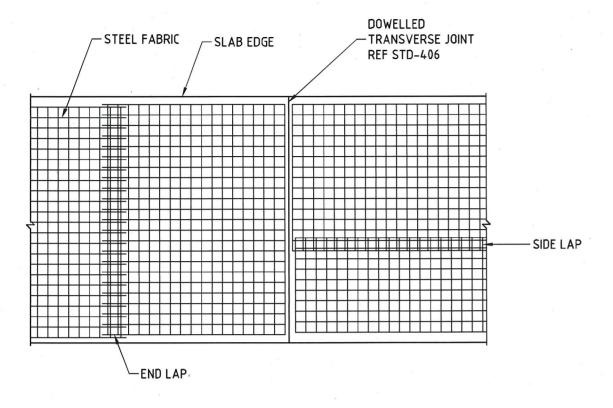
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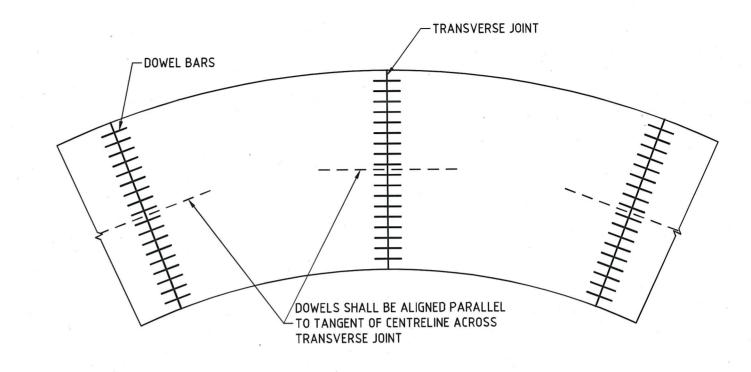
Dir. Assets & Facilities

JOINTED REINFORCED CONCRETE PAVEMENT TRANSVERSE JOINT DETAIL

AS SHOWN DRG. NO. STD-406

SHEET 1 OF 1





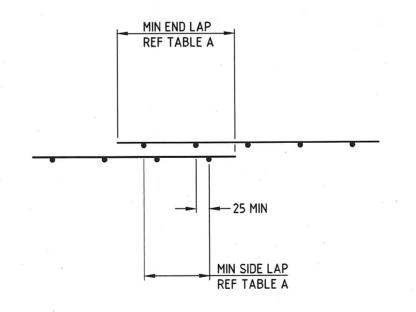
PLAN

TRANSVERSE JOINTS ON CURVES

MINIMUM LAP

FABRIC REF NO'S	CROSS WIRE SPACING mm	MIN END LAP mm	MIN SIDE LAP mm
RL1218 to RL718	200	425	225
RL928 to RL828	250	525	275
SL81	100	225	125
SL102 to SL42	200	425	225

TABLE A



LAP LENGTH DETAIL

Dir. Assets & Facilities Date

NOTES

AS SHOWN DRG.

- RECTANGULAR MESH SHALL BE ALIGNED WITH THE CLOSER SPACED WIRES PARALLEL TO THE PAVEMENT CENTRELINE.
- STEEL FABRIC SHALL BE LOCATED IN THE TOP THIRD OF THE BASE AND SHALL HAVE A MINIMUM COVER OF 50mm. REFER TO SPECIFICATIONS FOR DETAILS OF STEEL FABRIC.

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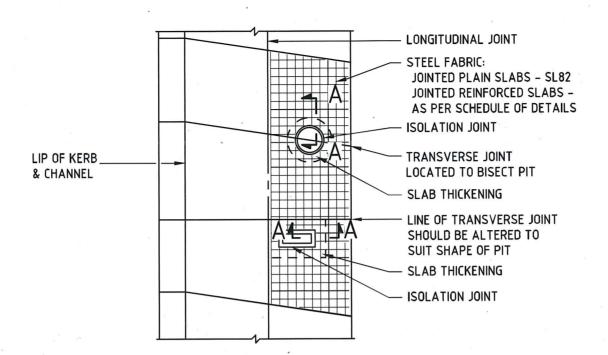
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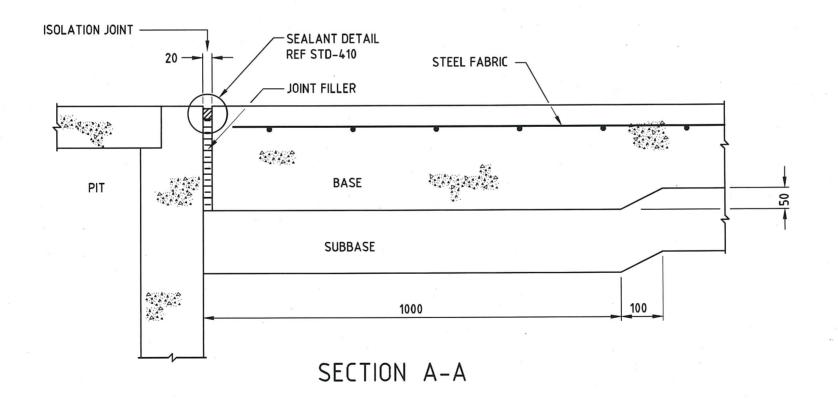
JOINTED REINFORCED CONCRETE PAVEMENT

STD-407

REINFORCEMENT AND JOINT DETAIL



PREFERRED POSITIONING OF SLAB OPENINGS



NOTE

STEEL FABRIC SHALL BE LOCATED IN THE TOP THIRD OF THE BASE AND SHALL HAVE A MINIMUM COVER OF 50mm.

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	Initials	Date	CAD Reference
Designed	CAP WORKS	AUG 2009	STD-408_CP-SLAB OPENINGS
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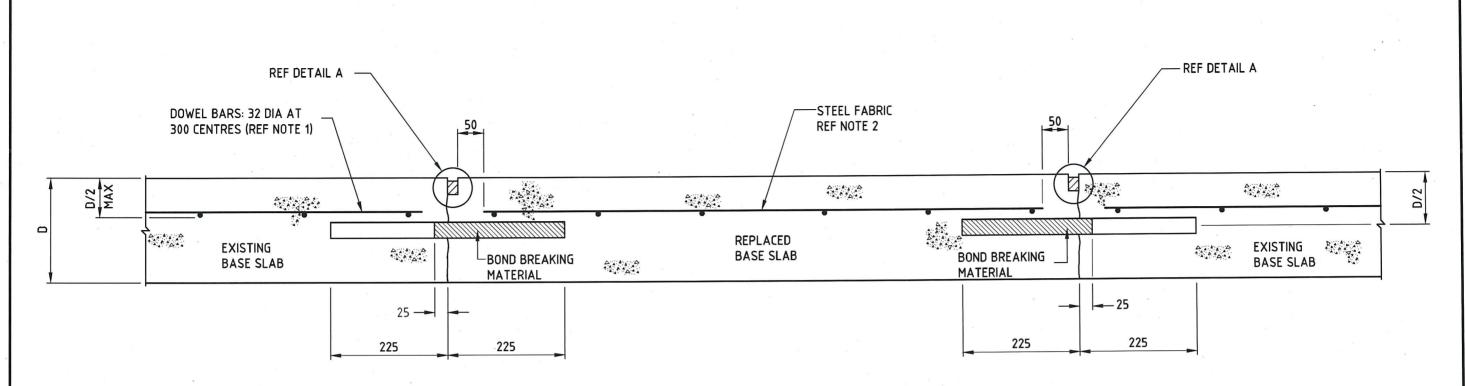
Dir. Assets & Facilities Date

16.01.12

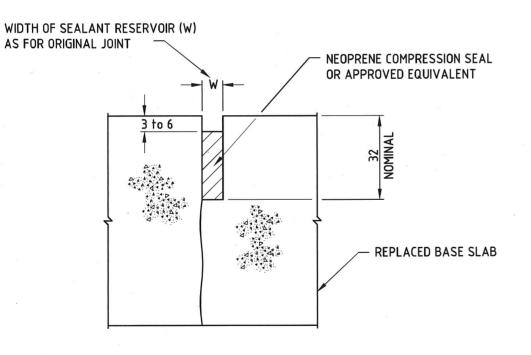
JOINTED PLAIN & REINFORCED CONCRETE PAVEMENT

TREATMENT OF SLAB OPENINGS

AS SHOWN DRG. STD-408



TRANSVERSE JOINTS



DETAIL A

NOTES:

- DOWEL BARS SHALL BE:
 - SECURELY POSITIONED PARALLEL TO PAVEMENT CENTRELINE AND FINISHED SURFACE
 - PART COATED AS SHOWN WITH APPROVED BOND BREAKING MATERIAL
- STEEL FABRIC:
 - SL82 FABRIC SHALL BE SPECIFIED FOR REPLACED SLABS IN JOINTED PLAIN CONCRETE PAVEMENTS. FOR JOINTED REINFORCED PAVEMENTS REPLACEMENT FABRIC SHALL SUIT THE REPLACEMENT TRANSVERSE JOINT SPACING.
- 3. REINFORCEMENT SHALL BE LOCATED IN THE TOP THIRD OF THE BASE SLAB AND SHALL HAVE A MINIMUM COVER OF 50mm.
- 4. LONGITUDINAL JOINTS:
 TIE BARS AT LONGITUDINAL JOINTS SHALL BE REINSTATED IN ACCORDANCE WITH
 STD-411.

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	Initials	Date	CAD Reference	I
Designed	CAP WORKS	AUG 2009	STD-409_CP-SLAB REPLACE	
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JOINTED PLAIN PAVEMENT
SLAB REPLACEMENT

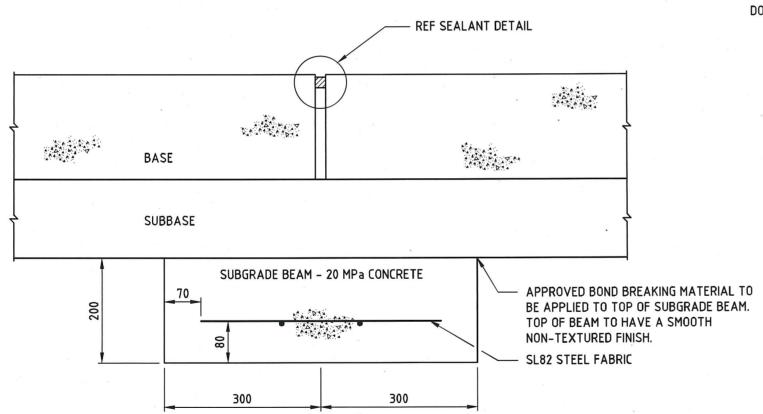
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DRG. NO. STD-409

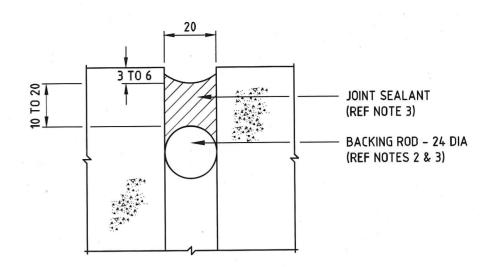
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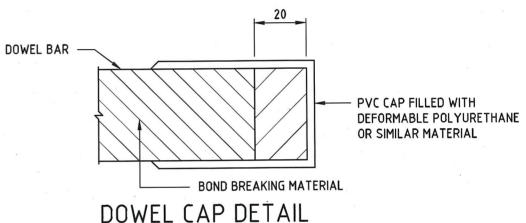
DOWELLED EXPANSION JOINT



EXPANSION JOINT WITH SUBGRADE BEAM



SEALANT DETAIL - EXPANSION JOINT



NOTES:

CAD Reference

DOWEL BARS SHALL BE:

SCALE:

AS SHOWN

- -SECURELY POSITIONED PARALLEL TO PAVEMENT CENTRELINE AND FINISHED
- -PART COATED AS SHOWN WITH APPROVED BOND BREAKING MATERIAL.
- BACKING ROD SHALL BE MADE OF POLYETHELENE FOAM OR APPROVED EQUIVALENT. ALTERNATIVE MATERIAL AND SHAPE MAY BE APPROVED.
- AN APPROVED NEOPRENE COMPRESSION SEAL CONFORMING TO AS2628 MAY BE USED INSTEAD OF A FIELD MOULDED SEALANT AND BACKING ROD.
- AN APPROVED SEALANT SHALL BE INSTALLED ALONG THE TOP AND DOWN THE VERICAL EDGES OF THE EXPANSION JOINT.
- REINFORCEMENT SHALL BE LOCATED IN THE TOP THIRD OF THE BASE AND SHALL HAVE A MINIMUM COVER OF 50mm.





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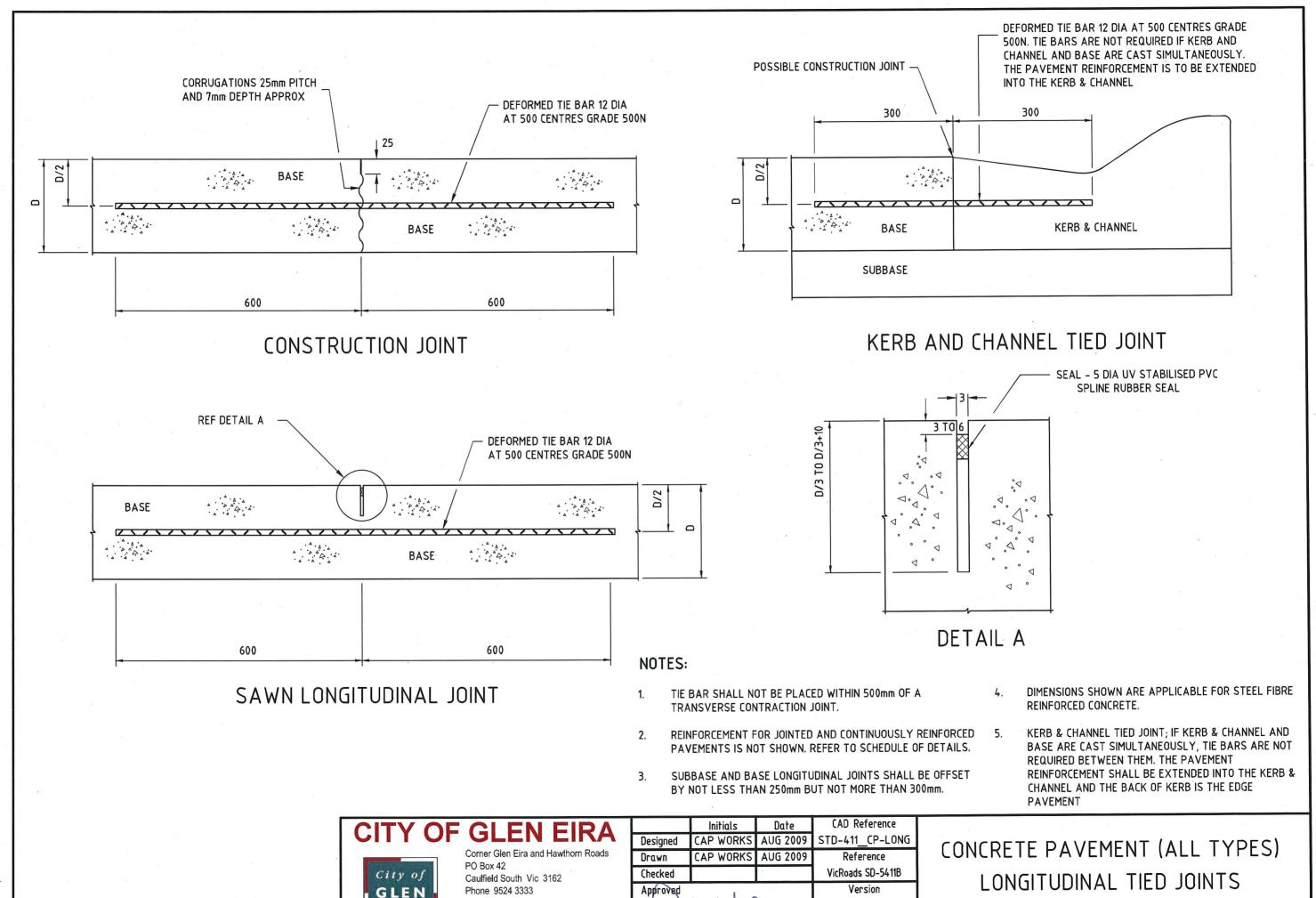
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CONCRETE PAVEMENT (ALL TYPES)
EXPANSION JOINT DETAIL	

STD-410

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Date

16.01.12

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E-Mail mail@gleneira.vic.gov.au

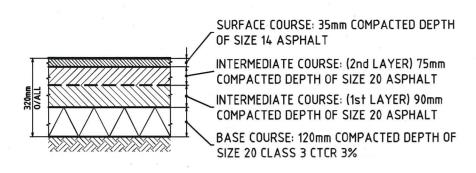
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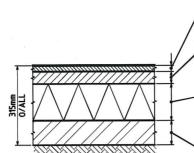
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1 OF 1

STD-411



ROAD PAVEMENT CONSTRUCTION DETAIL (ARTERIAL ROAD)

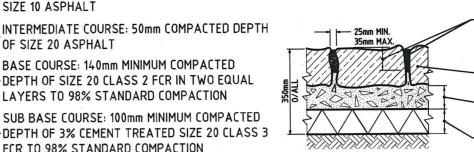


SIZE 10 ASPHALT INTERMEDIATE COURSE: 50mm COMPACTED DEPTH OF SIZE 20 ASPHALT BASE COURSE: 140mm MINIMUM COMPACTED -DEPTH OF SIZE 20 CLASS 2 FCR IN TWO EQUAL LAYERS TO 98% STANDARD COMPACTION SUB BASE COURSE: 100mm MINIMUM COMPACTED

FCR TO 98% STANDARD COMPACTION

SURFACE COURSE: 25mm COMPACTED DEPTH OF

ROAD PAVEMENT CONSTRUCTION DETAIL '2' (LOCAL STREET)



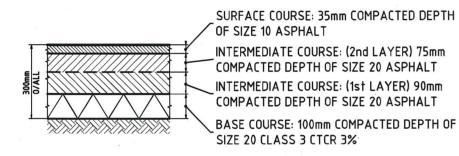
JOINTING: 100mm MINIMUM DEPTH OF CHARCOAL COLOURED QUARTER MINUS CONCRETE 25 MPa COLOURING TO BE ACHIEVED ONLY BY THE ADDITION OF 8.3% IRON OXIDE BY WEIGHT OF CEMENT

BLUESTONE PITCHERS

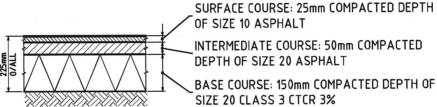
BEDDING: 100mm NOMINAL DEPTH OF 25MPa

BASE COURSE: 100mm COMPACTED DEPTH OF CLASS 2 CRUSHED ROCK

ROAD PAVEMENT CONSTRUCTION DETAIL (BLUESTONE RUMBLE STRIP)



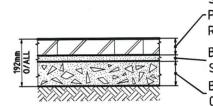
ROAD PAVEMENT CONSTRUCTION DETAIL (ARTERIAL ROAD SIDE STREETS)



OF SIZE 10 ASPHALT INTERMEDIATE COURSE: 50mm COMPACTED DEPTH OF SIZE 20 ASPHALT

BASE COURSE: 150mm COMPACTED DEPTH OF SIZE 20 CLASS 3 CTCR 3%

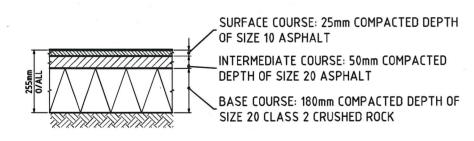
ROAD PAVEMENT CONSTRUCTION DETAIL '3' (LOCAL STREET)



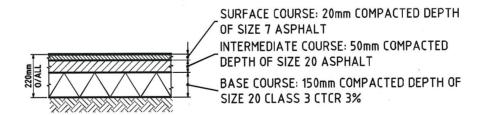
SURFACE COURSE: 67mm THICK BRICK -PAVERS BUTT JOINTED (NUBRIC 'BEVELLED RUSTIC' OR APPROVED EQUILIVALENT) BEDDING: 25mm COMPACTED DEPTH SAND/CEMENT (5:1) MORTAR

BASE COURSE: 100mm DEPTH OF 25MPa CONCRETE

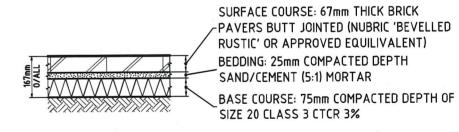
BRICK PAVING DETAIL '1' (ROAD PAVEMENT)



ROAD PAVEMENT CONSTRUCTION DETAIL '1' (LOCAL STREET)



ROAD PAVEMENT CONSTRUCTION DETAIL (CAR PARK / PARKING BAYS)



BRICK PAVING DETAIL '2' (FOOTWAY AREAS)

CITY OF GLEN EIRA



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Dir. Assets & Facilities Date		16.01.12,		

PAVEMENT SECTIONS DESIGN GUIDE

SCALE: AS SHOWN

STD-412

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