### STANDARD DRAWINGS BY OTHERS

### **Main Roads**

For all Main Roads Drawings refer to the hyperlinked Web Site

http://www.mainroads.qld.gov.au/MRWEB/Prod/Content.nsf/b495dab138a6b17a4a256a42001c8f4f/4a2390f764ec17884a256cc900062196!OpenDocument

For road/drainage elements where there is no Burnett Shire Standard Drawing refer to Main Roads Standard Drawings.

Local Government standard drawings take precedence over those provided by Department of Main Roads where applicable.

#### WSA - Water Services Association of Australia

For all WSA Codes and Associated Drawings refer to the hyperlinked Web Site

https://www.wsaa.asn.au/

Please note that the Codes contain the Standard Drawings: WSA 02-2002 V2.3 Sewerage Code of Australia WSA 03-2002 V2.3 Water Supply Code of Australia

WSA have also produced specifications, which are the **default** requirements for products and materials referenced in the Sewerage Code of Australia, WSA 02 and the Water Supply Code of Australia, WSA 03.

Local Government specifications/standard drawings take precedence over those provided by WSA and Aus-Spec where applicable.

In cases, where the Local Government procedures differ to the WSA drawings, comment has been provided relevant to these differences on the following sheets.

### STANDARD DRAWINGS from WSA 03-2002 - 2.3 WATER

Drawing	Title	Burnett Shire Comment / Requirement
PIPELINE LA	YOUT	
WAT-1100	Design Layouts Typical Locality Plan	
WAT-1101	Design Layouts Typical Site Plan	<ul> <li>Main in Cul-D-Sac to be looped near entrance</li> <li>Show non intersections</li> </ul>
WAT-1102	Typical Mains Construction Reticulation Main Arrangements	<ul> <li>Do not use Copper services</li> <li>Do not use DI tapped connectors</li> <li>Do not use PVC Fittings</li> <li>Use SS bolts throughout</li> </ul>
WAT-1103	Typical Mains Construction Distribution and Transfer Mains	Use Flanged offtakes in DI and GRP Fittings
WAT-1104	Typical Mains Construction DN 63 PE Cul-de-Sac Arrangement	<ul> <li>Main size to be a minimum of NB 100mm</li> <li>Do not use Detail A2 or Detail B</li> </ul>
WAT-1105	Typical Mains Construction Connection to Existing Mains	Do not use Wrap offtakes
WAT-1106	Property Services Single Service Main to Meter	<ul> <li>Conduit to laid from boundary to boundary.</li> <li>Kerb marker to be a brass insert with a stamped W</li> </ul>
WAT-1107	Property Services Split Service Main to Meter	<ul><li>Conduit to laid from boundary to boundary</li><li>Connections to be established at side boundary alignment</li></ul>
WAT-1108	Property Services Connection to Main	<ul><li>Do not use pre-tapped DI Connector</li><li>Do not use Wrap offtakes</li></ul>
WAT-1109	Property Services Above Ground Meter Assembly Arrangement	All domestic meters are to be installed below ground level with a Burnett Shire Council standard polyethylene meter box and lid
EMBEDME	NT / TRENCHFILL AND RESTRAINTS	
WAT-1200	Soil Classification Guidelines And Allowable Bearing Pressures for Anchors and Thrust Blocks	Apply standard soil classification practices
WAT-1201	Embedment & Trenchfill Typical Arrangement	
WAT-1202	Standard Embedment All Pipe Types	
WAT-1203	Special Embedments Inadequate and Poor Foundation	Timber not to be used for permanent support
WAT-1204	Special Embedments Concrete, Geotextile and Cement Stabilised Systems	
WAT-1205	Thrust Block Details Concrete Blocks	
WAT-1206	Thrust Block Details Timber 8 Recycled Plastic Blocks	<ul><li>Timber thrust not acceptable</li><li>Use WAT 1205</li></ul>
WAT-1207	Thrust and Anchor Blocks Gate Valves and Vertical Bends	
WAT-1208	Restrained Joint System DN 100 to DN 375 DI Mains	
WAT-1209	Trench Drainage Bulkheads and Trenchstop	
WAT-1210	Trench Drainage . Typical Systems	

### STANDARD DRAWINGS from WSA 03-2002 - 2.3 WATER (cont)

Drawing	Title	Burnett Shire Comment / Requirement
EMBEDME	NT / TRENCHFILL AND RESTRAINTS	
WAT-1211	Buried Crossings Under Obstructions	
WAT-1212	Buried Crossings Major Roadways	
WAT-1213	Buried Crossings Railways	
WAT-1214	Buried Crossings Bored & Jacked Encasing Pipe Details	
INSTALLA	TION PRACTICES/ STRUCTURES	
WAT-1300	Valve and Hydrant Identification Identification Markers & Marker Posts	Do not use hydrant marker posts Refer BSC Drawing W401 Bases for scour valve posts are to be concreted to a min depth of 300mm
WAT-1301	Typical Valve & Hydrant Installation Valve Arrangement	
WAT-1302	Typical Valve & Hydrant Installation Hydrants and Air Relief Valves	Do not use fittings with combined hydrant and isolating valve
WAT-1303	Typical Surface Fitting Installation Gate Valve Surface Boxes Non Trafficable	
WAT-1304	Typical Surface Fitting Installation Gate Valve Surface Boxes Trafficable	
WAT-1305	Typical Surface Fitting Installation Hydrant Surface Boxes Trafficable and Non Trafficable	
WAT-1306	Typical Surface Fitting Installation Hydrant Surface Boxes Trafficable	
WAT-1307	Typical Appurtenance Installation Scour Arrangements	
WAT-1308	Typical Appurtenance Installation Valve Chambers	
WAT-1309	Typical Appurtenance Installation Pressure Reducing Valves (PRV)	Above ground bypass preferred
WAT-1310	Aerial Crossings Aqueduct	
WAT-1311	Aerial Crossings Aqueduct Protection Grille	
WAT-1312	Aerial Crossings Bridge Crossing Concepts	
WAT-1313	Flanged Joints Bolting Details	

### STANDARD DRAWINGS from WSA 03-2002 - 2.3 WATER (cont)

Drawing	Title	Burnett Shire Comment / Requirement
		7
FABRICAT	ON DETAILS	
WAT-1400	Typical Steel Pipe Jointing Butt Welding of Joints	
WAT-1401	Typical Steel Pipe Jointing Rubber Ring Joint Spigot Bands	
WAT-1402	Typical Steel Pipe Jointing Welded Pipe Collars	
WAT-1403	Typical Steel Fabrication Bends	
WAT-1404	Typical Steel Fabrication Access Opening for Pipes >-DN 750	
WAT-1405	Typical Steel Fabrication Dismantling and Flexible Joints	
WAT-1406	Typical Steel Fabrication Valve Connection 8 Bypass	
WAT-1407	DI Installation Valve Bypass Arrangement DI and GRP Pipe	
WAT-1408	Joint Corrosion Protection Cement Mortar Lined Steel Pipe DN 300 to DN 1200	
WAT-1409	Hydrant Installation Fittings PE Assemblies	

### STANDARD DRAWINGS from WSA 02-2002- 2.2 SEWERAGE

Drawing	Title	Burnett Shire Comment / Requirement
SEW- 1100	Design Layouts Typical Locality & Site Plan	
SEW-1101	Design Layouts Longitudinal Sections	
SEW-1102	Design Layouts Connection to Existing Sewer Schedule of Works	
SEW-1103	Pipe laying Typical Arrangements	Use Manhole at changes of direction
SEW-1104	Property Connection Details Sewer in Road Reserve	Use single jump-up to sewer main
SEW-1105	Property Connection Details Sewer in Easements & Inside Property	
SEW-1106	Property Connection Details 10 Interface Method	Avoid Vertical Riser if possible
SEW-1107	Property Connection Details Buried Interface Method	
SEW-1108	Property Connection Details "Y" Branch & Around Obstructions	
SEW-1109	Property Connection Details Private Property & Marking Systems	<ul><li>Use a concrete surround</li><li>bolted</li><li>Screw-On Trap</li></ul>
EMBEDMEI	NT / TRENCHFILL AND SUPPORT SYSTEMS	
SEW- 1200	Soil Classification Guidelines And Allowable Bearing Pressures for Bulkheads	Apply standard soil classification practices
SEW-1201	Embedment and Trenchfill Typical Arrangements	
SEW-1202	Standard Embedment Flexible & Rigid Pipes	
SEW-1203	Special Embedment Inadequate Foundations Requiring Over Excavation & Replacement	
SEW-1204	Special Embedment Support Utilising Piles	Timber not to be used for permanent support
SEW-1205	Special Embedment Concrete & Stabilised Supports	
EMBEDMEI	NT / TRENCHFILL AND SUPPORT SYSTEMS (cont)	
SEW-1206	Trench Drainage Bulkheads & Trench stop	
SEW-1207	Trench Drainage Typical Systems	
SEW-1208	Verticals & Near Verticals Exposed & Concealed Methods	

### STANDARD DRAWINGS from WSA 02-2002- 2.2 SEWERAGE (cont)

Drawing	Title	Burnett Shire Comment / Requirement
ACCESS S	TRUCTURES	
SEW-1 300	Maintenance Holes Sewers <- DN 300 Precast Types P1 & P2	No ladder or step irons to be provided in Maintenance Holes
SEW-1301	Maintenance Holes Sewers <_ DN 300 Cast Insitu Types C1 & C2	
SEW-1302	Maintenance Holes Pipe Connection Details	
SEW-1303	Maintenance Holes Sewers _< DN 300 Changes in Level Details	<ul> <li>Do not use external Drop Junction</li> <li>Manhole size to be adjusted to accommodate internal Drop Junction</li> </ul>
SEW-1304	Maintenance Holes For Sewers _< DN 300 Typical Channel Arrangements	
SEW-1305	Maintenance Holes Typical Channel Details	
ACCESS S	TRUCTURES	
SEA1306	Maintenance Holes Alternative Drop Connections	Top Bend to have horizontal clearing access
SEW-1307	Maintenance Holes Step Irons & Ladders	No ladder or step irons to be provided in Maintenance Holes
SEW-1308	Maintenance Holes Typical MH Cover Arrangements	
SEW-1309	Maintenance Holes Sewers DN 375 to DN 750	
SEW-1310	Maintenance Holes Permanent Formwork >_ DN 375	
SEW-1311	Maintenance Holes Depth to Invert 6 m to 15 m	No ladder or step irons to be provided in Maintenance Holes
SEW-1312	Maintenance Holes Depth to Invert > 15 m	No ladder or step irons to be provided in Maintenance Holes
SEW-1313	Maintenance Shafts Typical Installation	
SEW-1314	Maintenance Shafts MS & Variable Bend Installations	
SEW-1315	Maintenance Shafts TMS and Connection Installations	
SEW-1316	Maintenance Shafts Typical MS Cover Arrangements	
SEW-1317	Maintenance Holes MH Connection Details DN 110 to DN 450 PE Pipe	

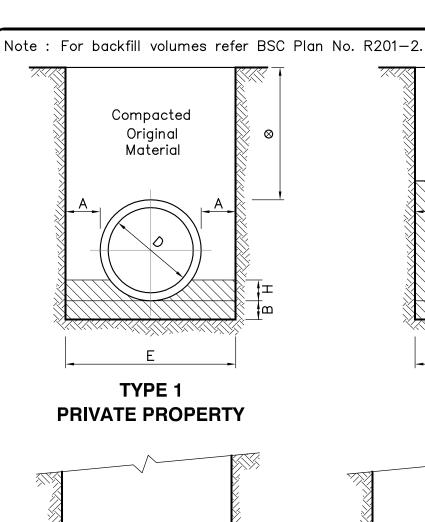
### STANDARD DRAWINGS from WSA 02-2002- 2.2 SEWERAGE (cont)

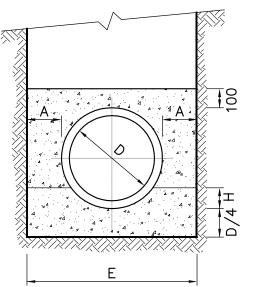
Drawing	Title	Burnett Shire Comment / Requirement
SPECIAL CR	DSSINGS 1 STRUCTURES ARRANGEMENTS	
SEW-1400	Buried Crossings Syphon Arrangement	
SEW-1401	Buried Crossings Railways	
SEW-1402	Buried Crossings Major Roadways	
SEW-1403	Buried Crossings Bored & Jacked Encasing Pipe Details	
SEW-1404	Aerial Crossings Aqueduct	
SEW-1405	Aerial Crossings Aqueduct Protection Grille	
SEW-1406	Aerial Crossings Bridge Crossing Concepts	
SEW-1407	Ventilation Systems Induct Vent	
SEW-1408	Ventilation Systems Educt Vent	
SEW-1409	Water Seal Arrangements Mains Type	
SPECIAL CR	DSSINGS 1 STRUCTURES ARRANGEMENTS (cont)	
SEW-1410	Water Seal Arrangements Maintenance Hole System	
SEW-1411	Water Seal Arrangements Twin Maintenance Hole System	
SEW- 1412	Emergency Relief Structures Typical Arrangement DN 150 to DN 375	
CONNECTI	ONS TO EXISTING SYSTEMS	
SEW-150C	Insertions & Repair Systems Cut-in Methods	
SEW-1501	Insertions & Repair Systems Insertion of Junctions	
SEW-1502	Insertions & Repair Systems Maintenance Structures	

### BURNETT SHIRE COUNCIL STANDARD DRAWINGS

### DRAINAGE

	Bedding And Backfilling
Number	Title /Topic
D201-1	Excavation, Bedding and Backfilling of Concrete Pipes - Sheet 1 of 2.
D201-2	Excavation, Bedding and Backfilling of Concrete Pipes - Sheet 2 of 2.
D202	Excavation, Bedding and Backfilling of Precast Box Culverts.
	Catchpit
D211-1	Bro-Pit Set out and Treatment to Kerb Type KC1.
D211-2	Bro-Pit Set out and Treatment to Kerb Types KC1 And KC2.
D211-3	Bro-Pit Set out and Treatment to Kerb Types KC1, KC2 And KC3 on Curves.
	Field Inlet
D221	Field Inlet / Grated Gully Pit Profiles and Dimensions

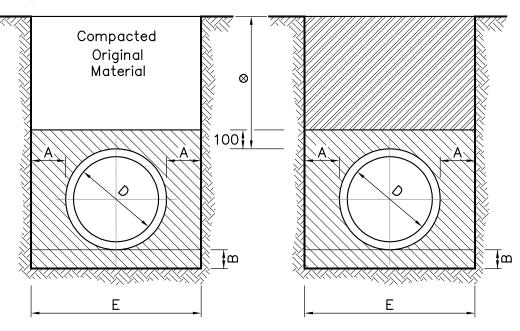




TYPE 5 **CONCRETE OR GRAVEL SURROUND** 

- 1. Selected backfill in all cases shall be carried through to the wings and continued 300 thick for the length and height of the wings.

  2. Bedding compaction: \* Cohesive material 95%
- standard compaction, \* Non-cohesive material to have density index of 70 min, refer AS1289.E5.1, \* Sand compacted by flooding and vibrators.
- 3. Backfill compaction :
- \* Crusher dust 75mm run with vibrator.



TYPE 2 **FOOTPATHS** 

CBR 15 and Geofabric

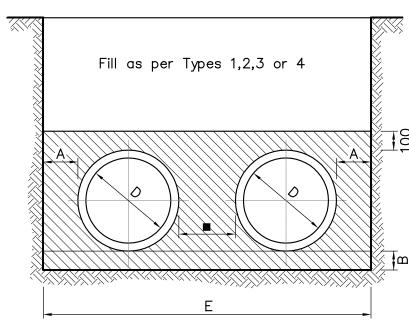
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TYPE 6

**BEDDING IN** 

**POOR GROUND** 

TYPE 3 **ROAD SHOULDER DRIVEWAYS** 



**TYPE 7** 

**BEDDING OF MULTIPLE PIPES** 

- \* Gravel 300mm layer under pavment 95% standard compaction.
- \* Natural Material 90% standard compaction.
- \* Max. densities determined by tests to AS1289.5.1.1.
- 4. Refer to project drawings for types to be adopted. 5. Type U & H1 to conform to AS 3725.
- 6. All dimensions in millimetres.

#### BEDDING AND HAUNCH MATERIAL Gravel, loam, sand or mixture

AS Sieve size	% Passing by mass
19.0	100
2.36	40 — 100
0.425	15 — 70
0.075	3 — 30

# 100 | | 100 Asphalt-TYPE 4

**PAVEMENT** 

Nominal	Min	Haunch	Bedding	E (1	m)
Dø	Α	H	В	Des	Max
300	300	36	100	1.0	1.1
375	300	45	100	1.1	1.2
450	300	53	100	1.1	1.3
525	300	61	100	1.2	1.5
600	300	69	100	1.3	1.6
675	300	77	100	1.4	1.7
750	300	85	100	1.5	1.8
825	300	94	100	1.6	1.9
900	300	103	100	1.6	1.9
1050	300	120	100	1.8	2.1
1200	300	135	100	2.0	2.2
1350	300	150	100	2.1	2.4
1500	300	169	100	2.3	2.7
1650	330	184	150	2.3	2.9
1800	360	200	150	2.8	3.1
1950	390	222	150	3.1	3.3
2100	420	239	150	3.4	3.5

#### LEGEND

- Depth as approved by Works Engineer.
- Cover as per manufacturers specification.
- Saw cut existing pavement.
- 300 when pipe D is  $\leq$ 600, 600 when pipe D is 600 to 1800, 900 when pipe D is ≥1800.
- Crusher dust.
- Lean mix concrete backfill, 1:15 mix.
- Sand to bedding & haunch material table

Scales:	Α	Revision to details	MLP 7/04	drawn	Org signed by BDF 05/98
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#### **BURNETT SHIRE** COUNCIL

Original signed by General Manager of Engineering Operations



#### **EXCAVATION, BEDDING AND BACKFILLING OF CONCRETE PIPES- SHEET 1 OF 2**

Drawing No. D201-1

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Nominal D ø mm	Volume of Sand per Lineal Metre m <sup>3</sup>
300	0.131
375	0.151
450	0.157
525	0.178
600	0.200
675	0.223
750	0.248
825	0.274
900	0.281
1050	0.337
1200	0.395
1350	0.457
1500	0.502
1650	0.697
1800	0.816
1950	0.953
2100	1.092

### VOLUME OF SAND FOR BACKFILL TYPE 1

AS PER BSC PLAN NO. R201-1

Nominal D ø mm	Volume of Sand per Lineal Metre m <sup>3</sup>
300	0.659
375	0.773
450	0.803
525	0.921
600	1.044
675	1.174
750	1.310
825	1.451
900	1.454
1050	1.749
1200	2.067
1350	2.409
1500	2.569
1650	3.065
1800	3.717
1950	4.415
2100	5.188

### VOLUME OF SAND FOR BACKFILL TYPES 2,3,4 & 6.

AS PER BSC PLAN NO. R201-1

Nominal	Wall	Width of trench		trench Depth from bas	
D Ø mm	Thickness mm	Desired mm	Maximum mm	Types 1,2, 3,4,6&7	Type 5
300	31	1000	1100	131	131
375	35	1100	1200	135	135
450	42	1100	1300	142	155
525	41	1200	1500	141	172
600	44	1300	1600	144	194
675	48	1400	1700	148	217
750	51	1500	1800	151	239
825	54	1600	1900	154	260
900	57	1600	1900	157	282
1050	64	1800	2100	164	237
1200	70	2000	2200	170	370
1350	76	2100	2400	176	414
1500	76	2300	2700	176	451
1650	83	2300	2900	233	496
1800	89	2800	3100	239	539
1950	102	3100	3300	252	590
2100	114	3400	3500	264	639

NOTE: ALL VOLUMES CALCULATED ON DESIRED TRENCH WIDTH.

#### **EXCAVATION DETAILS**

Scales:	Α	Revision to details	MLP 7/04	drawn	Org signed by BDF 05/98
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BURNETT SHIRE COUNCIL

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## EXCAVATION, BEDDING AND BACKFILLING OF CONCRETE PIPES- SHEET 2 OF 2

Drawing No. D201-2

Note: For backfill types refer BSC Plan No. R201—1.

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### VOLUME OF CONCRETE FOR BACKFILL TYPE 5

Volume of

Concrete per Lineal Metre

m³

0.131

0.151

0.171

0.216

0.265

0.319

0.379

0.444

0.481 0.630

0.795 0.956

1.135

1.301

1.656 2.000

2.367

Nominal

mm

300

375

450

525

600

675

750

825

900

1050 1200

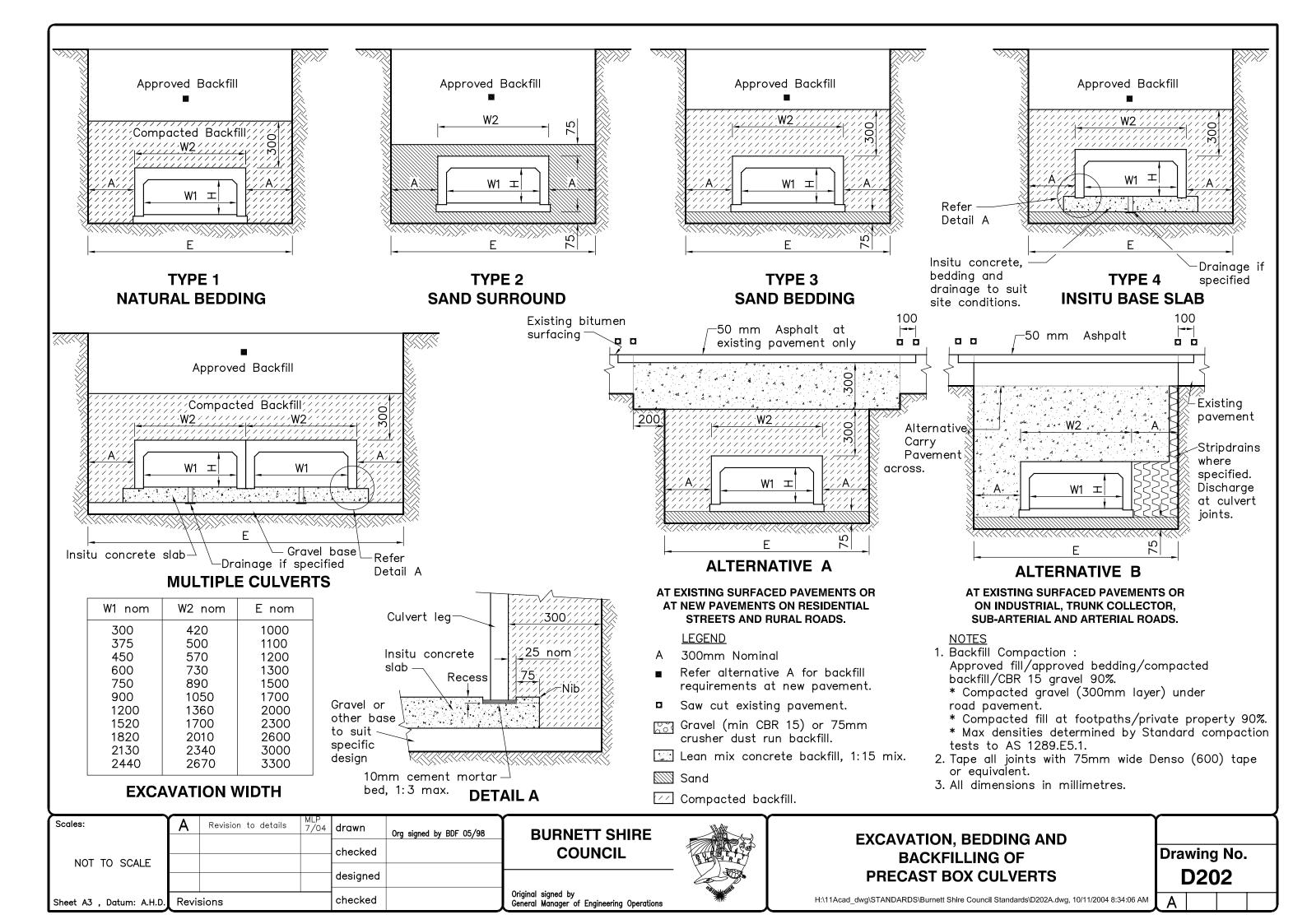
1350 1500

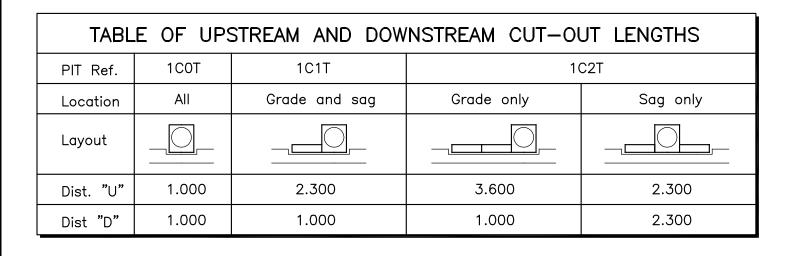
1650

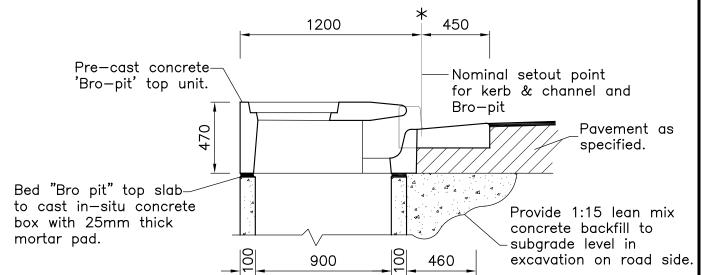
1800

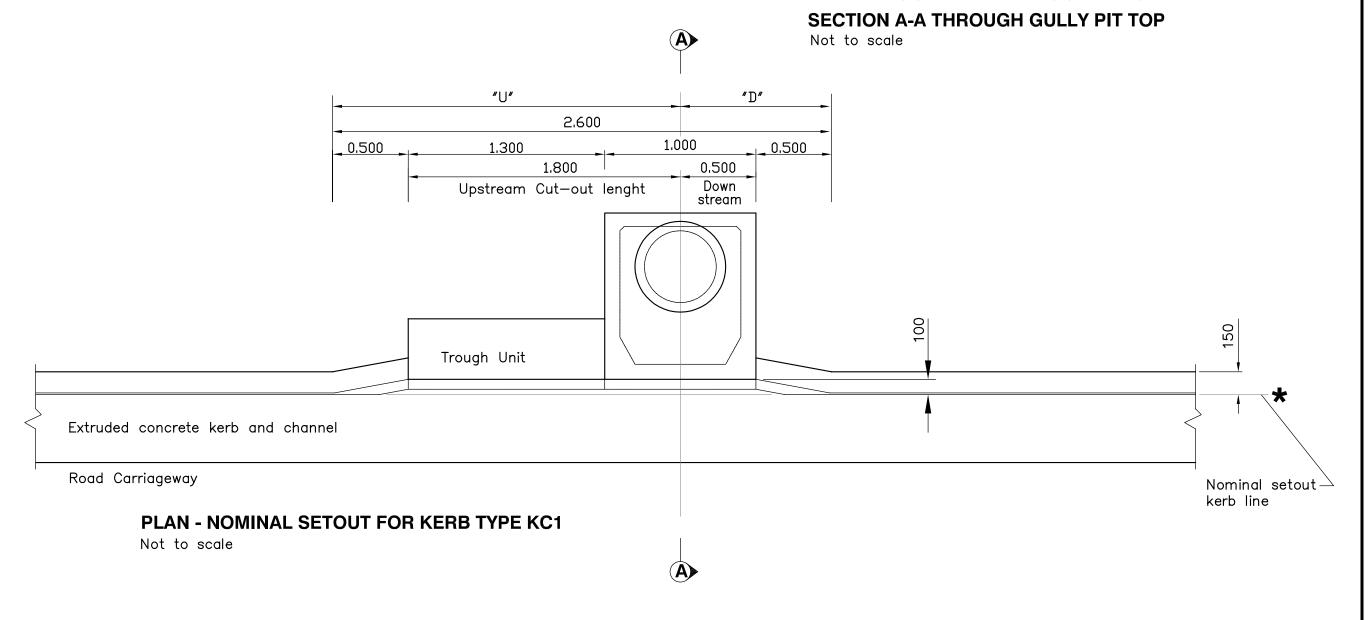
1950 2100

AS PER BSC PLAN NO. R201-1









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### BURNETT SHIRE COUNCIL

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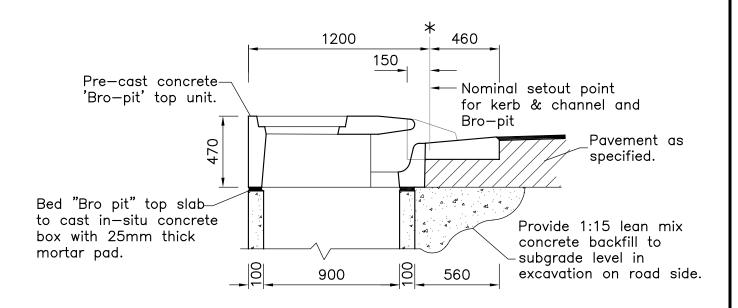


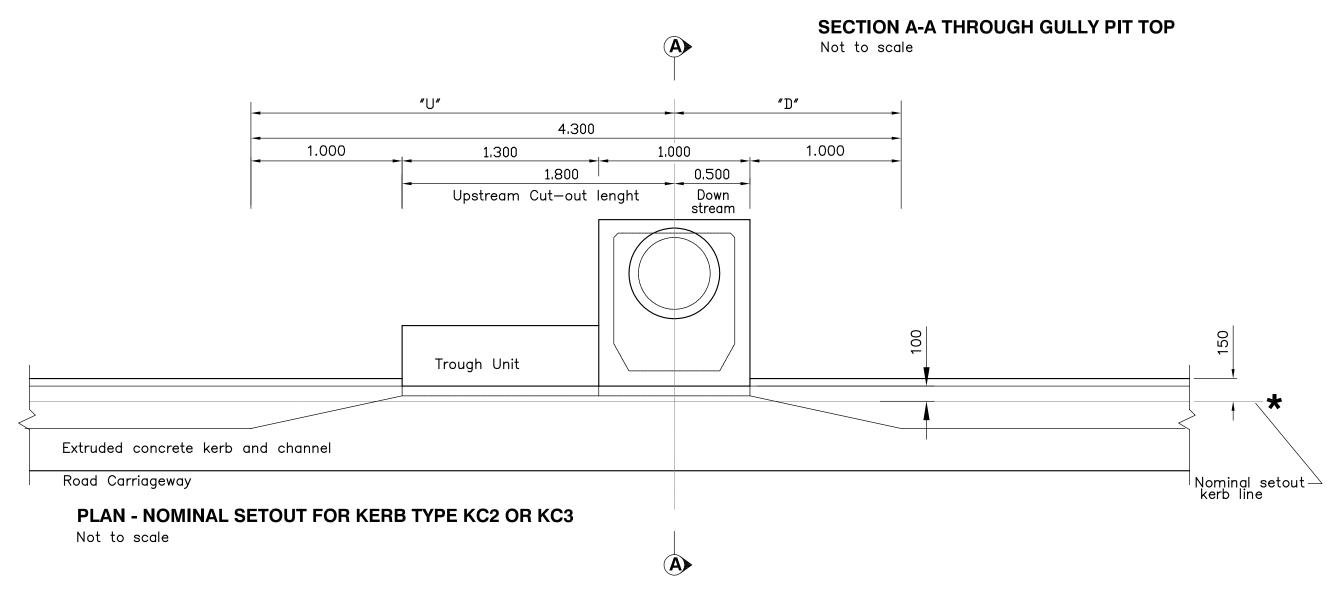
### BRO-PIT SETOUT AND TREATMENT TO KERB TYPE KC1

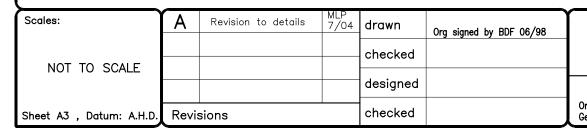
Drawing No. D211-1

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TABLE OF UPSTREAM AND DOWNSTREAM CUT-OUT LENGTHS						
PIT Ref.	1C0T	1C1T	10	C2T		
Location	All	Grade and sag	Grade only	Sag only		
Layout						
Dist. "U"	1.500	2.800	4.100	2.800		
Dist "D"	1.500	1.500	1.500	2.800		







### BURNETT SHIRE COUNCIL

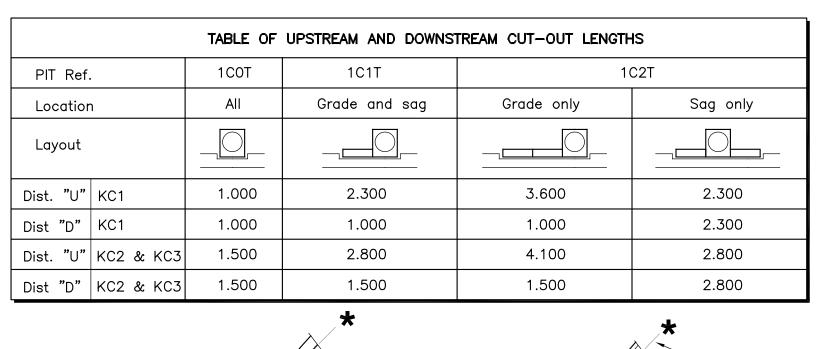
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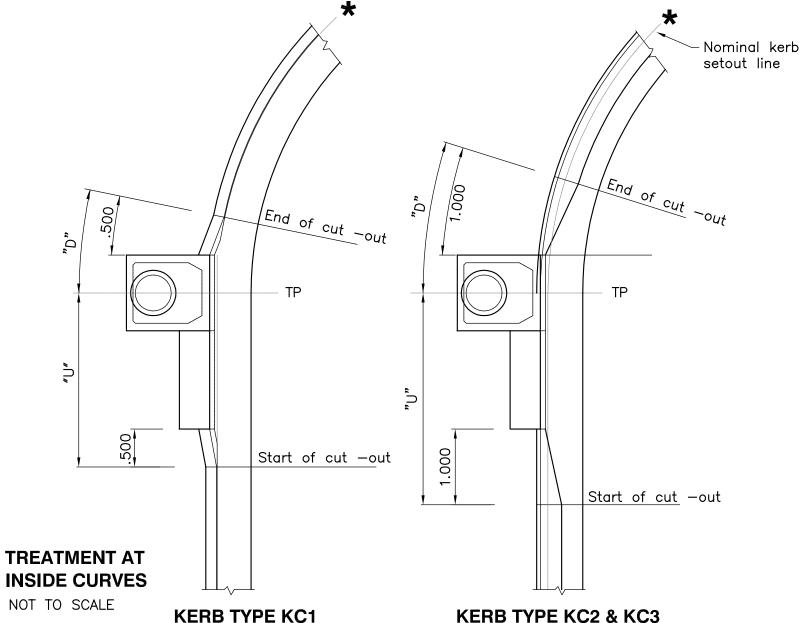


### BRO-PIT SETOUT AND TREATMENT TO KERB TYPE KC2 & KC3

Drawing No. D211-2

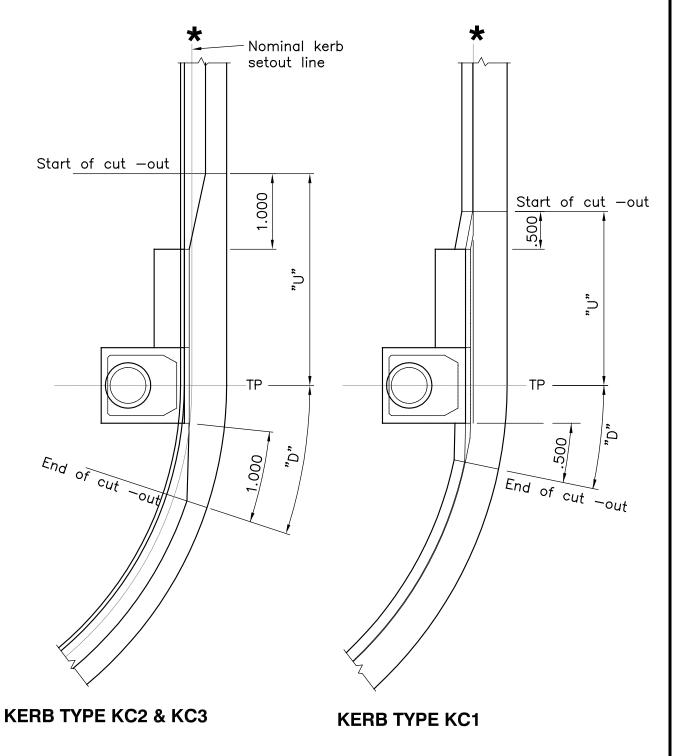
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NOTE: All setout details as per Standard drawing R35-1 and R35-2.



#### TREATMENT AT OUTSIDE CURVES

NOT TO SCALE

Scales: 7/04 drawn Revision to details Org signed by BDF 06/98 checked NOT TO SCALE designed

Revisions

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**BURNETT SHIRE** COUNCIL

**KERB TYPE KC2 & KC3** 

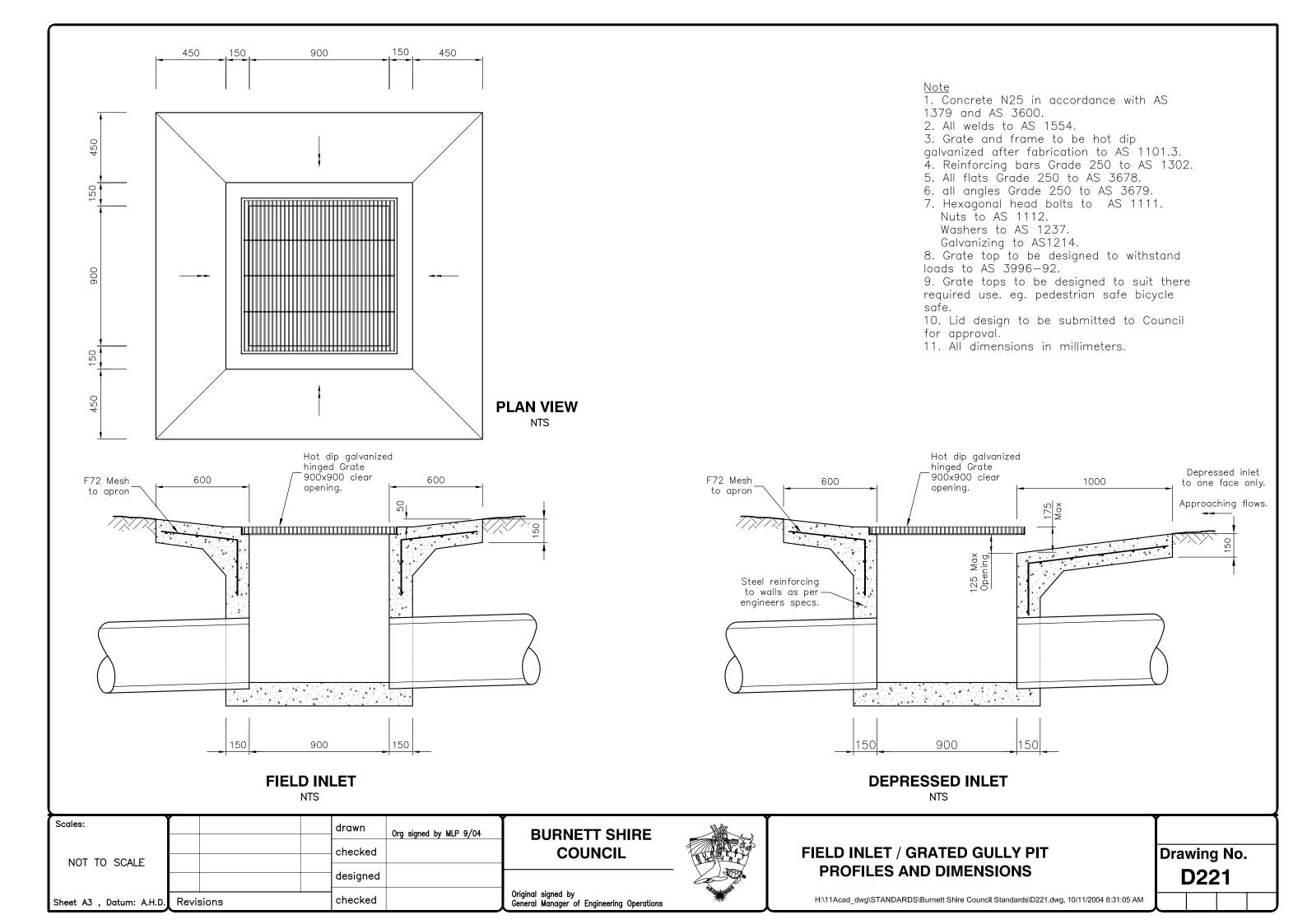
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**BRO-PIT SETOUT AND TREATMENT** TO KERB TYPES KC1, KC2 & KC3 **ON CURVES** 

Drawing No. D211-3

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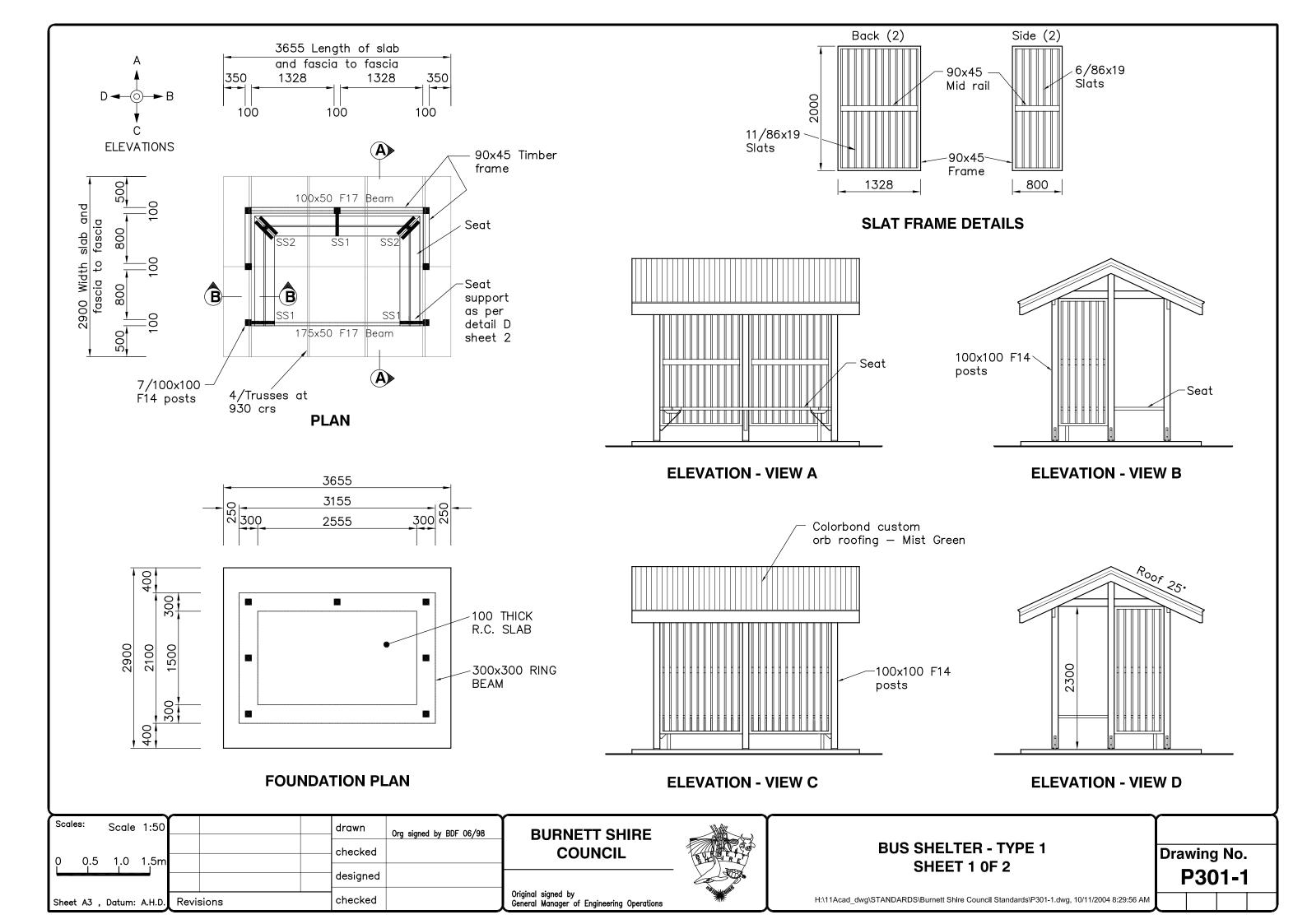
### BURNETT SHIRE COUNCIL STANDARD DRAWINGS

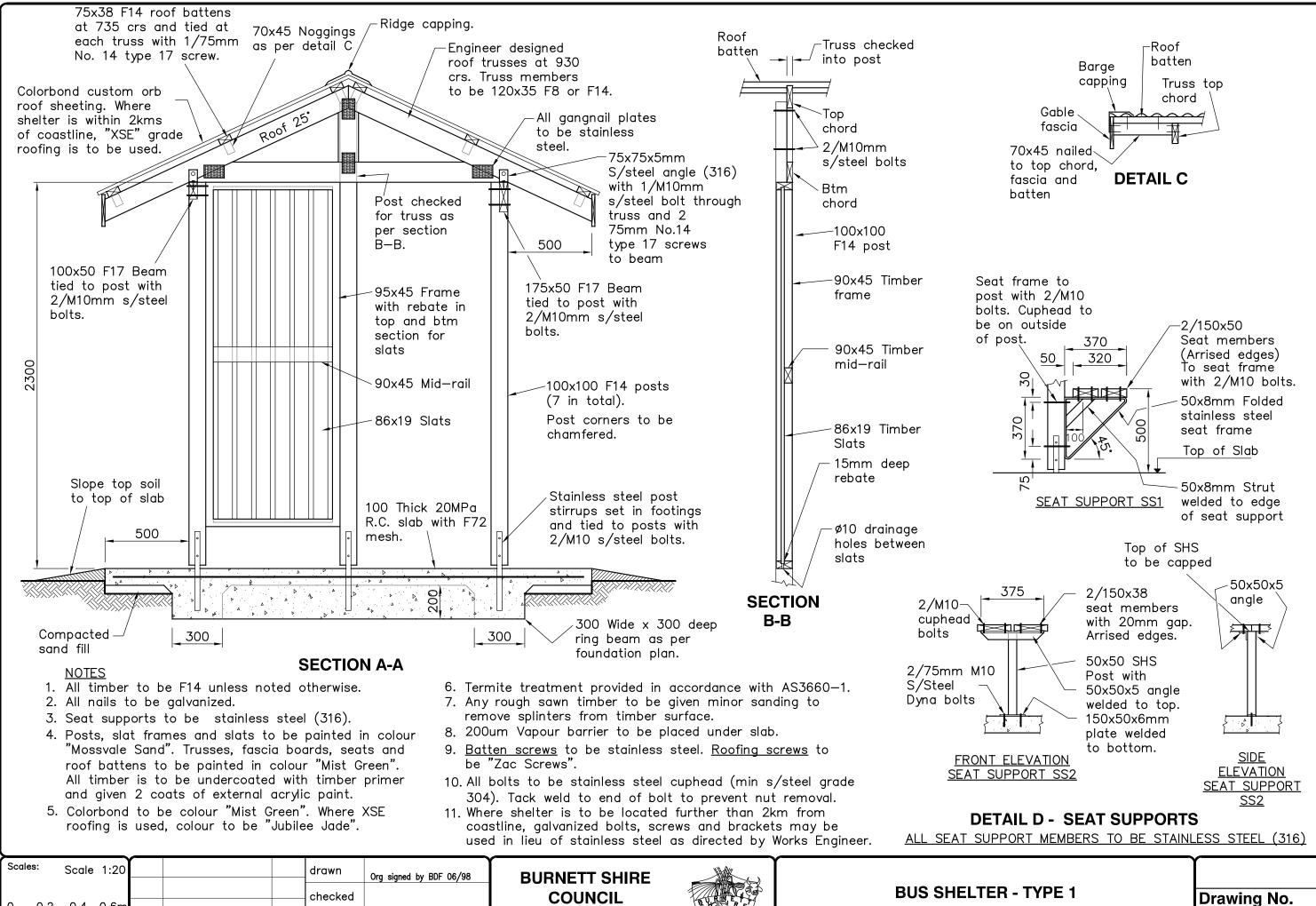
### **PARKS**

PAKN	
Number	Title / Topic
	Shelters
P301-1	Typical Bus Shelter - Type 1 - Sheet 1 of 2
P301-2	Typical Bus Shelter - Type 1 - Sheet 2 of 2
P303-1	Gazebo Shelter - Type 1 - Sheet 1 of 2
P303-2	Gazebo Shelter - Type 1 - Sheet 2 of 2
P305-1	Rectangular Shelter - Type 1 - Sheet 1 of 2
P305-2	Rectangular Shelter - Type 1 - Sheet 2 of 2
P306-1	Gazebo Shelter - Type 2 - Sheet 1 of 2
P306-2	Gazebo Shelter - Type 2 - Sheet 2 of 2
P307-1	Picnic Table Shelter - Type 1 - Sheet 1 of 2
P307-2	Picnic Table Shelter - Type 1 - Sheet 2 of 2
P308-1	Rectangular Shelter - Type 2 - Sheet 1 of 2
P308-2	Rectangular Shelter - Type 2 - Sheet 2 of 2
P309-1	Rotunda - Type 1 - Sheet 1 of 3
P309-2	Rotunda - Type 1 - Sheet 2 of 3
P309-3	Rotunda - Type 1 - Sheet 3 of 3
P311-1	Bus Shelter - Type 3 - Sheet 1 of 2
P311-2	Bus Shelter - Type 3 - Sheet 2 of 2
P312-1	Rectangular Skillion Roof Shelter - Type 3 - Sheet 1 of 4
P312-2	Rectangular Skillion Roof Shelter - Type 3 - Sheet 2 of 4
P312-3	Rectangular Skillion Roof Shelter - Type 3 - Sheet 3 of 4
P312-4	Rectangular Skillion Roof Shelter - Type 3 - Sheet 4 of 4

### PARKS (continued)

Number	Title / Topic
	Footbridges and Boardwalks
P304	Timber Footbridge Using Girder Poles
P310	1.4m Wide Lowset Boardwalk on Sleepers.
	Park Furniture
P320	Brick BBQ with Concrete Top - Single Hotplate
P321	Brick BBQ With Concrete Top - Double Hotplate
	Toilets and Amenities
P330	Layout of Toilet Fixtures for Disabled Toilets.
P331-1	Male/Female Amenities Block - Type 1 Layout Plan Sheet 1 of 6
P331-2	Male/Female Amenities Block - Type 1 Elevations Sheet 2 of 6
P331-3	Male/Female Amenities Block - Type 1 Section A-A Sheet 3 of 6
P331-4	Male/Female Amenities Block - Type 1 Foundation Plan Sheet 4 of 6
P331-5	Male/Female Amenities Block - Type 1 Notes Sheet 5 of 6
P331-6	Male/Female Amenities Block - Type 1 Toilet Fixtures Sheet 6 of 6
P335	Locking Plate For Septic Tank Lid
P337	Double Toilet Roll Holder
P338-1	Male/Female Amenities Block - Elevations Sheet 1 of 8
P338-2	Male/Female Amenities Block - Floor Plan Sheet 2 of 8
P338-3	Male/Female Amenities Block - Foundation Plan Sheet 3 of 8
P338-4	Male/Female Amenities Block - Section A-A Plan Sheet 4 of 8
P338-5	Male/Female Amenities Block - Framing Plan Sheet 5 of 8
P338-6	Male/Female Amenities Block - Bench And Basin Plan Sheet 6 of 8
P338-7	Male/Female Amenities Block - Toilet Fixtures And Notes Sheet 7 of 8
P338-8	Male/Female Amenities Block - Foundation Details Sheet 8 of 8





Original signed by General Manager of Engineering Operations

0.4 0.6m

Revisions

Sheet A3, Datum: A.H.D.

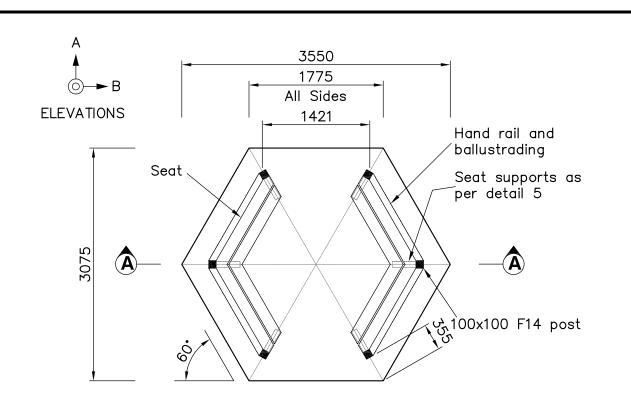
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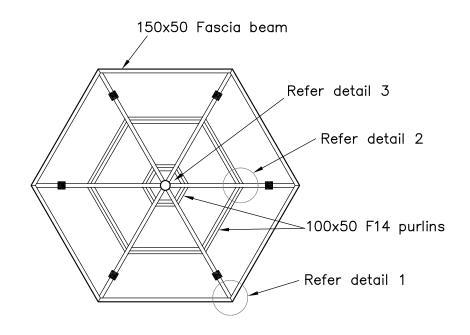
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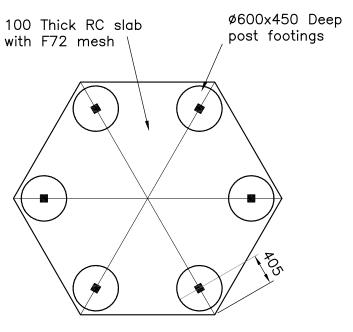
SHEET 2 OF 2

P301-2

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#### **PLAN VIEW**

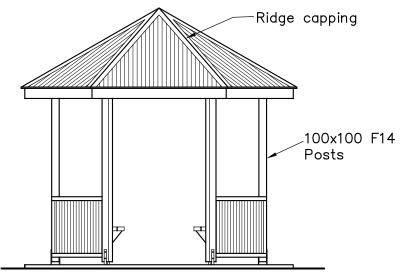
Scale 1:50

#### **ROOF FRAMING PLAN**

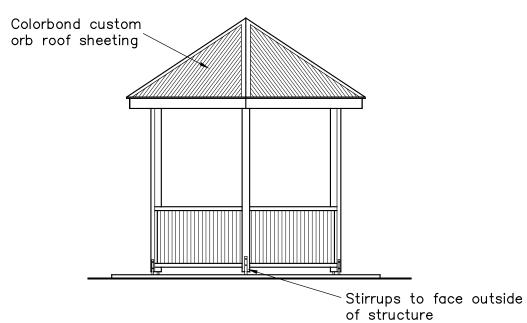
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#### **FOUNDATION PLAN**

Scale 1:50



### **ELEVATION - VIEW A** Scale 1:50



#### **ELEVATION - VIEW B**

Scale 1:50

Scales: Scale 1:50		drawn	Org signed by BDF 09/98
0 0.5 1.0 1.5m		checked	
		designed	
Sheet A3 , Datum: A.H.D.	Revisions	checked	

#### **BURNETT SHIRE** COUNCIL

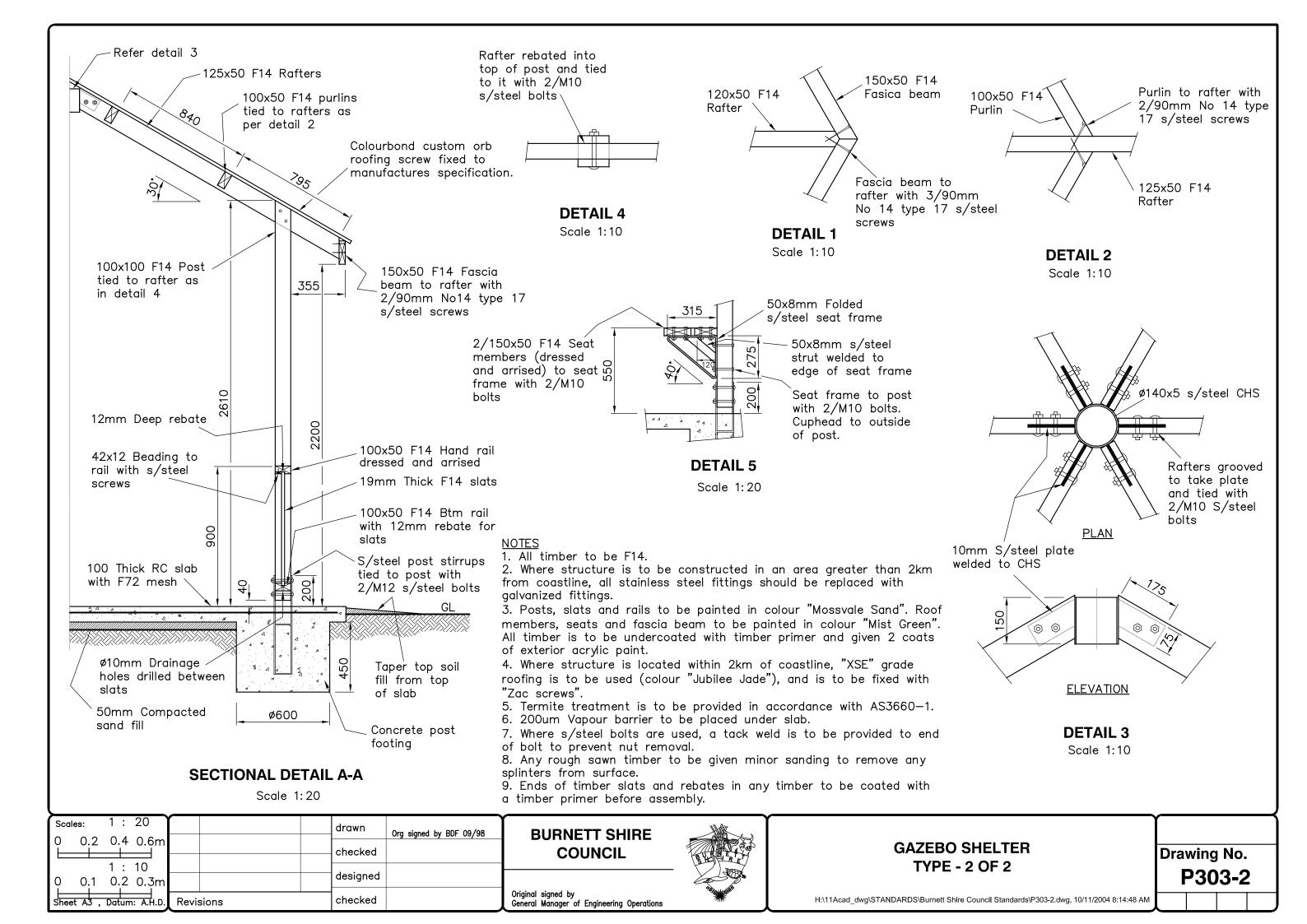
Original signed by General Manager of Engineering Operations

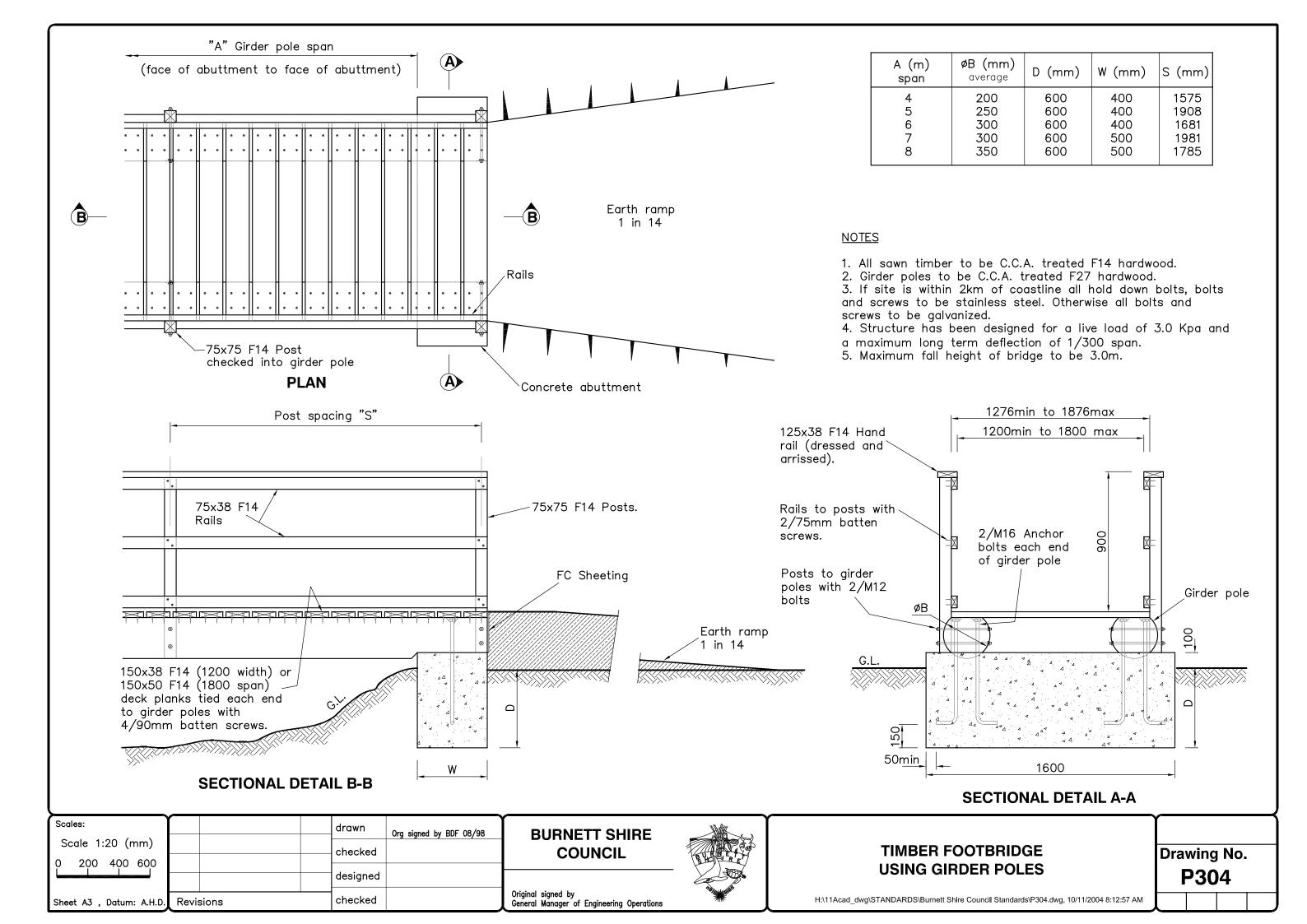


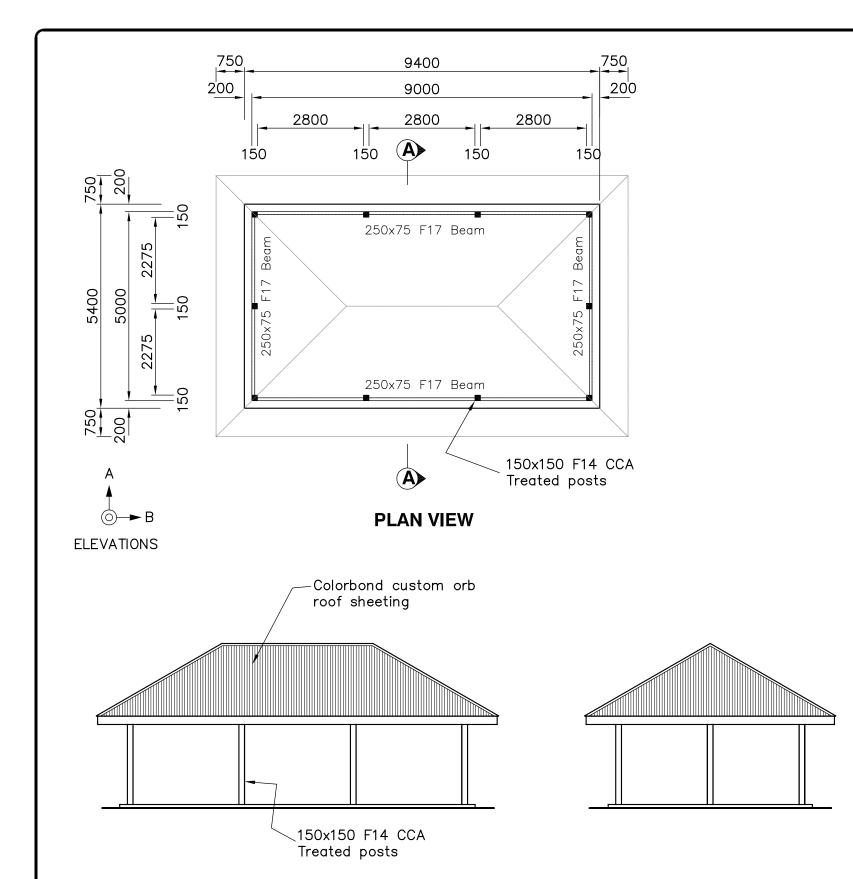
**GAZEBO SHELTER TYPE - 1 OF 2** 

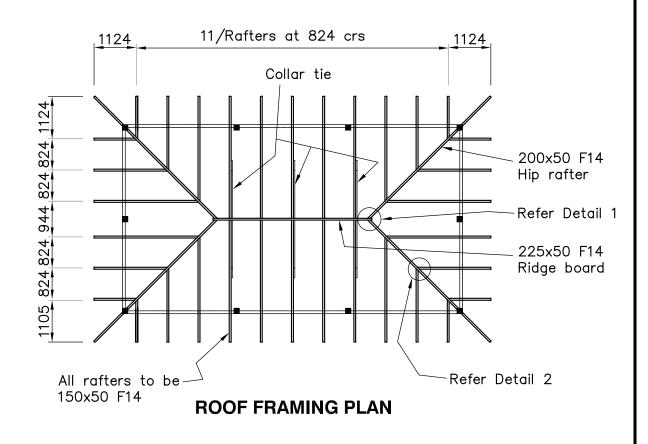
Drawing No. P303-1

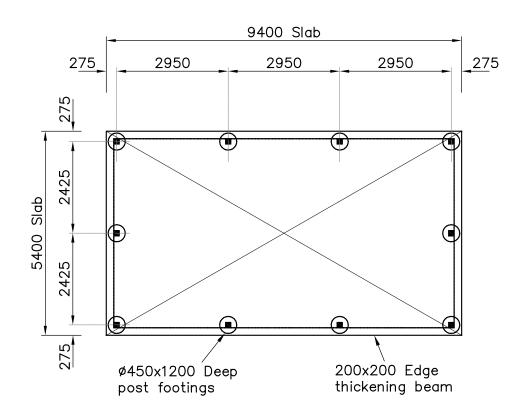
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#### **FOUNDATION PLAN**

Scale 1:100	drawn Org signed by BDF 09/98
0 1 2 3m	checked
	designed
Sheet A3 , Datum: A.H.D. Revisions	checked

**ELEVATION - VIEW A** 

### BURNETT SHIRE COUNCIL

**ELEVATION - VIEW B** 

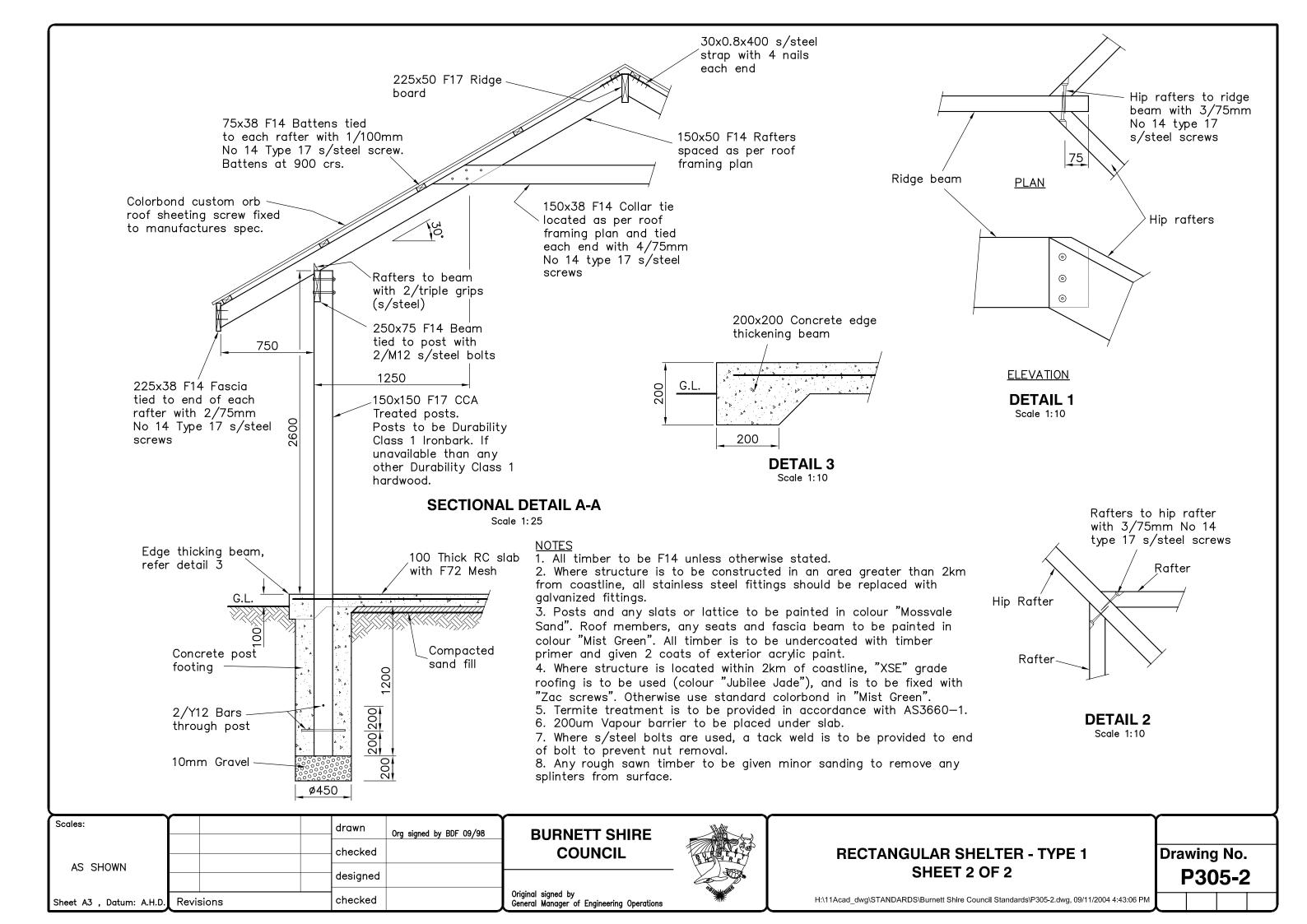
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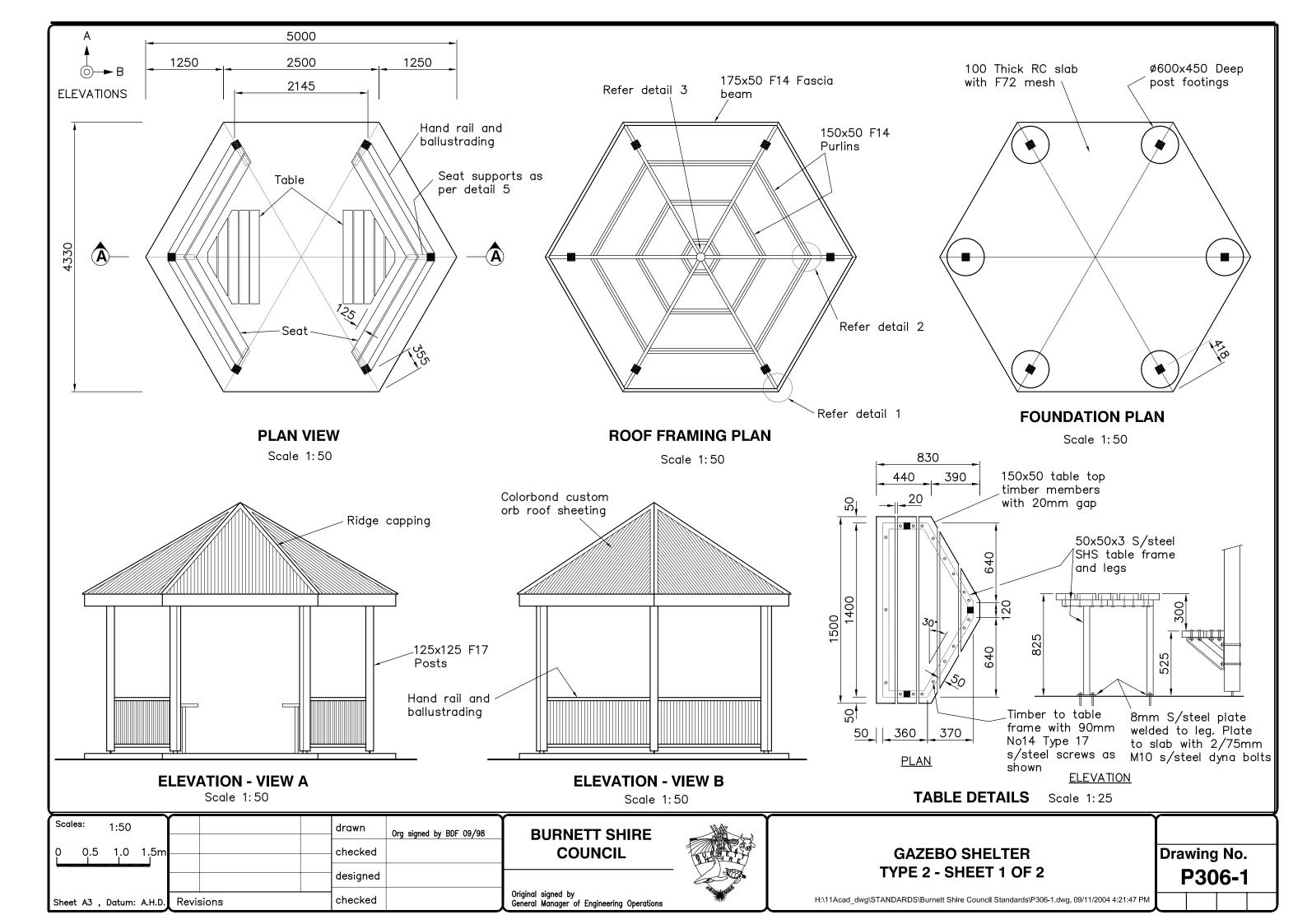


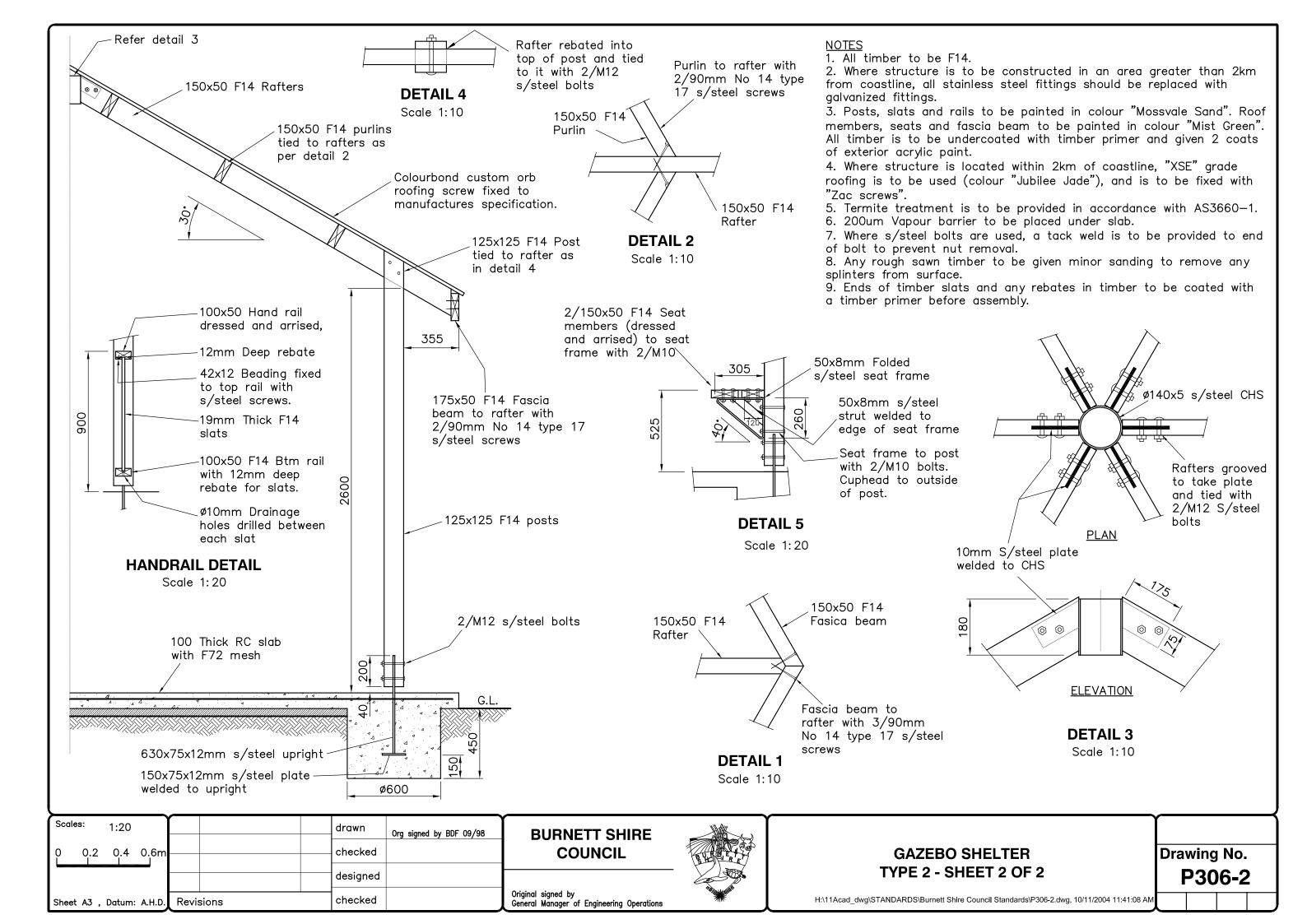
#### RECTANGULAR SHELTER - TYPE 1 SHEET 1 OF 2

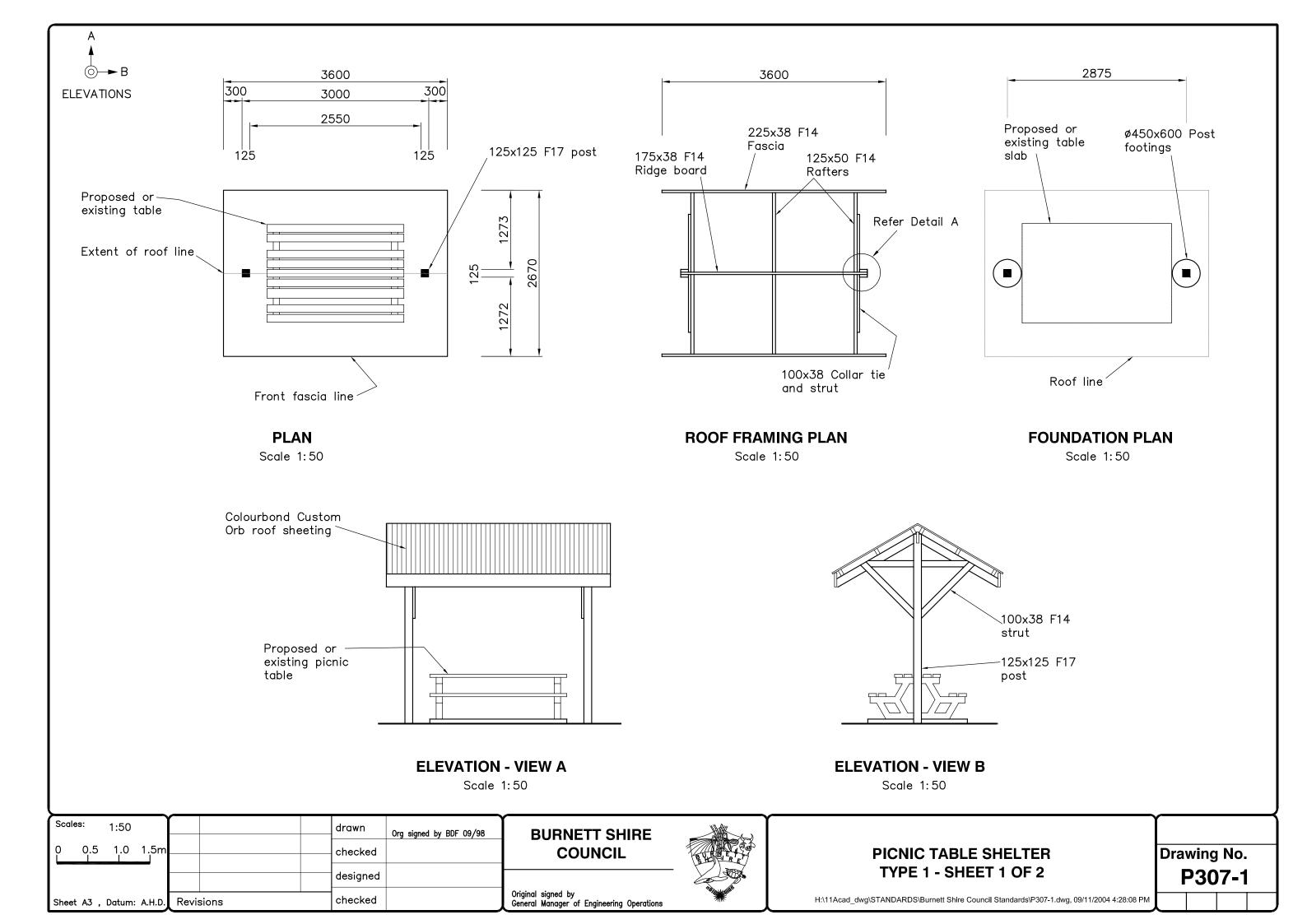
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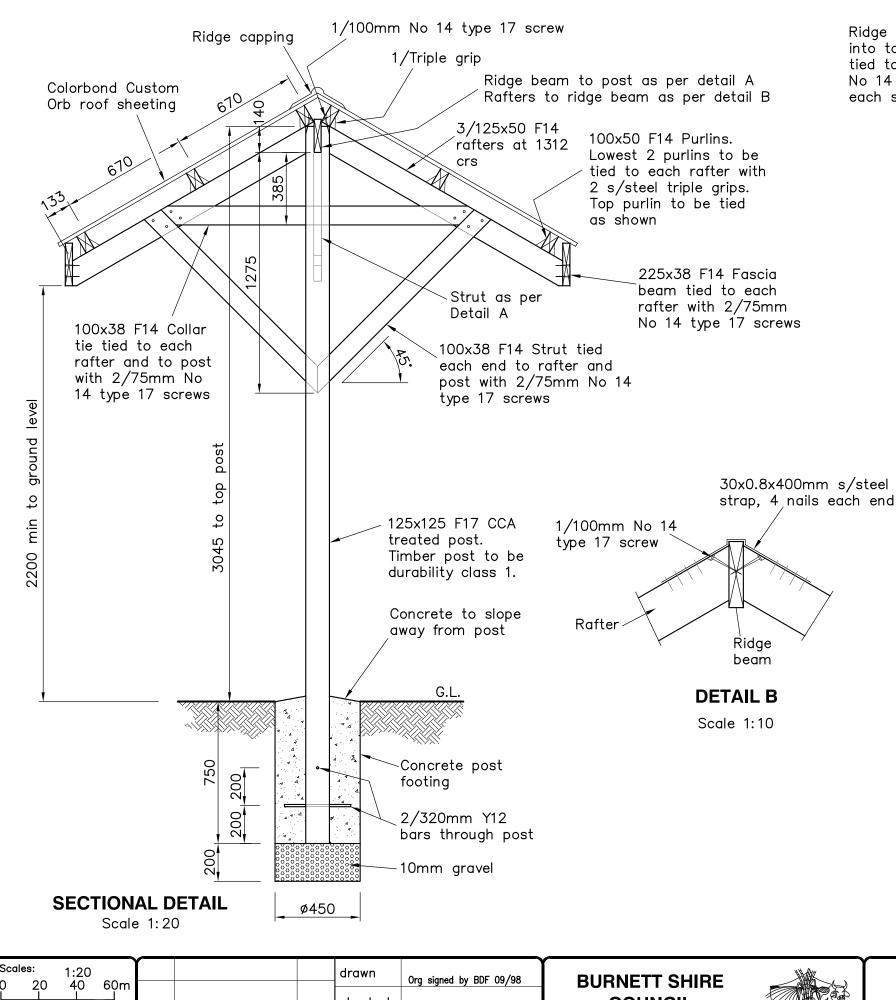
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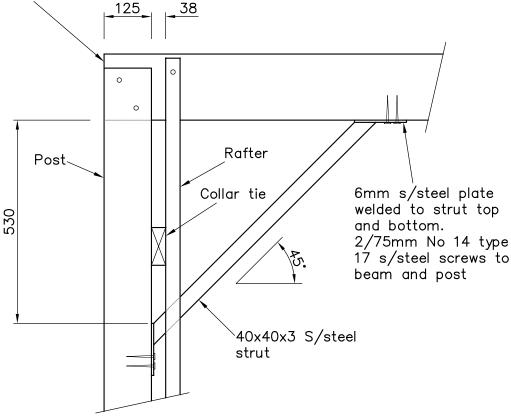






Ridge board mortised into top if post and tied to it with 2/75mm No 14 type 17 screws

each side

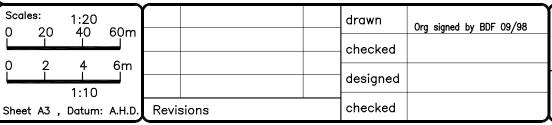


#### **DETAIL A**

Scale 1:10

#### **NOTES**

- 1. All timber to be F14 unless otherwise stated.
- 2. Where structure is to be constructed in an area greater than 2km from coastline, all stainless steel fittings should be replaced with galvanized fittings.
- 3. Posts, struts and collar ties to be painted in colour "Mossvale Sand". Roof members, and fascia beam to be painted in colour "Mist Green". All timber is to be undercoated with timber primer and given 2 coats of exterior acrylic paint.
- 4. Where structure is located within 2km of coastline, "XSE" grade roofing is to be used (colour "Jubilee Jade"), and is to be fixed with "Zac screws".
- 5. Termite treatment is to be provided in accordance with AS3660-1.
- 6. Where s/steel bolts are used, a tack weld is to be provided to end of bolt to prevent nut removal.
- 7. Any rough sawn timber to be given minor sanding to remove any splinters from surface.
- 8. Any rebates in timber to be coated with a timber primer before assembly.



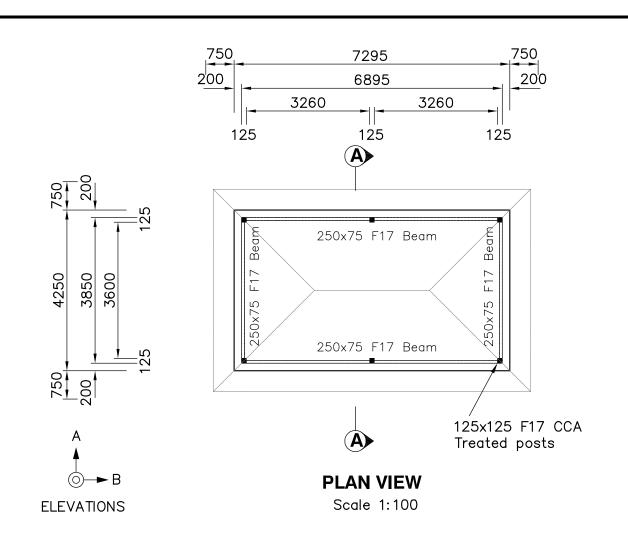
### COUNCIL

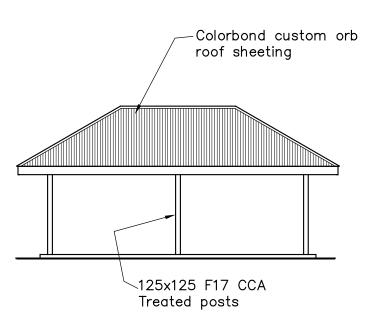
Original signed by General Manager of Engineering Operations

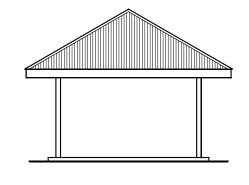


#### **PICNIC SHELTER** TYPE 1 - SHEET 2 OF 2

Drawing No. P307-2

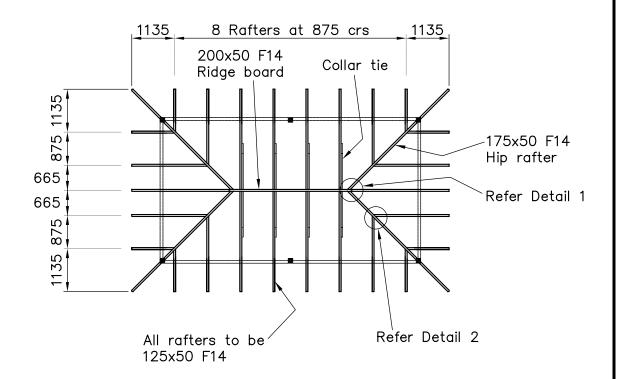






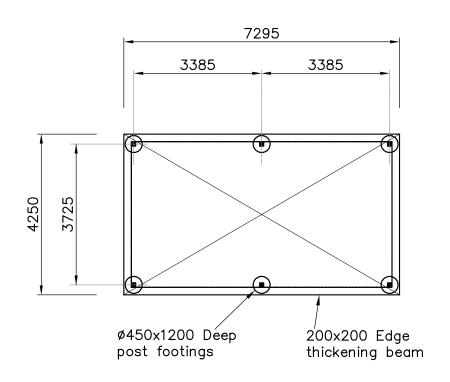
**ELEVATION - VIEW A** 

**ELEVATION - VIEW B** 



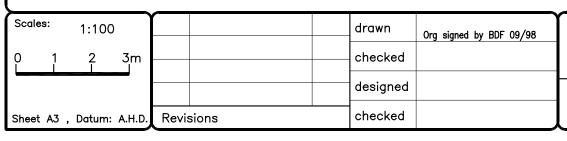
#### **ROOF FRAMING PLAN**

Scale 1:100



#### **FOUNDATION PLAN**

Scale 1:100



### BURNETT SHIRE COUNCIL

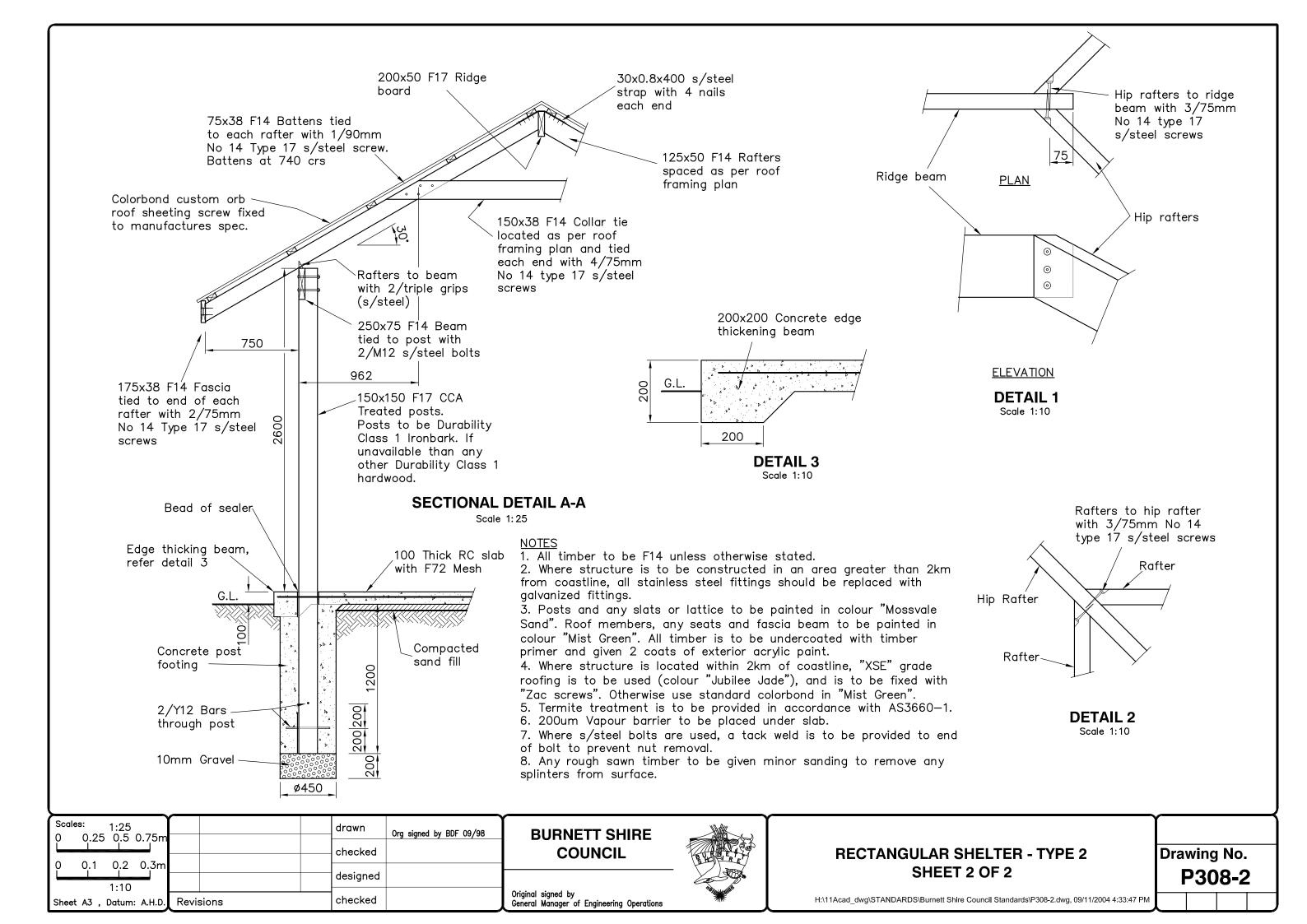
Original signed by General Manager of Engineering Operations

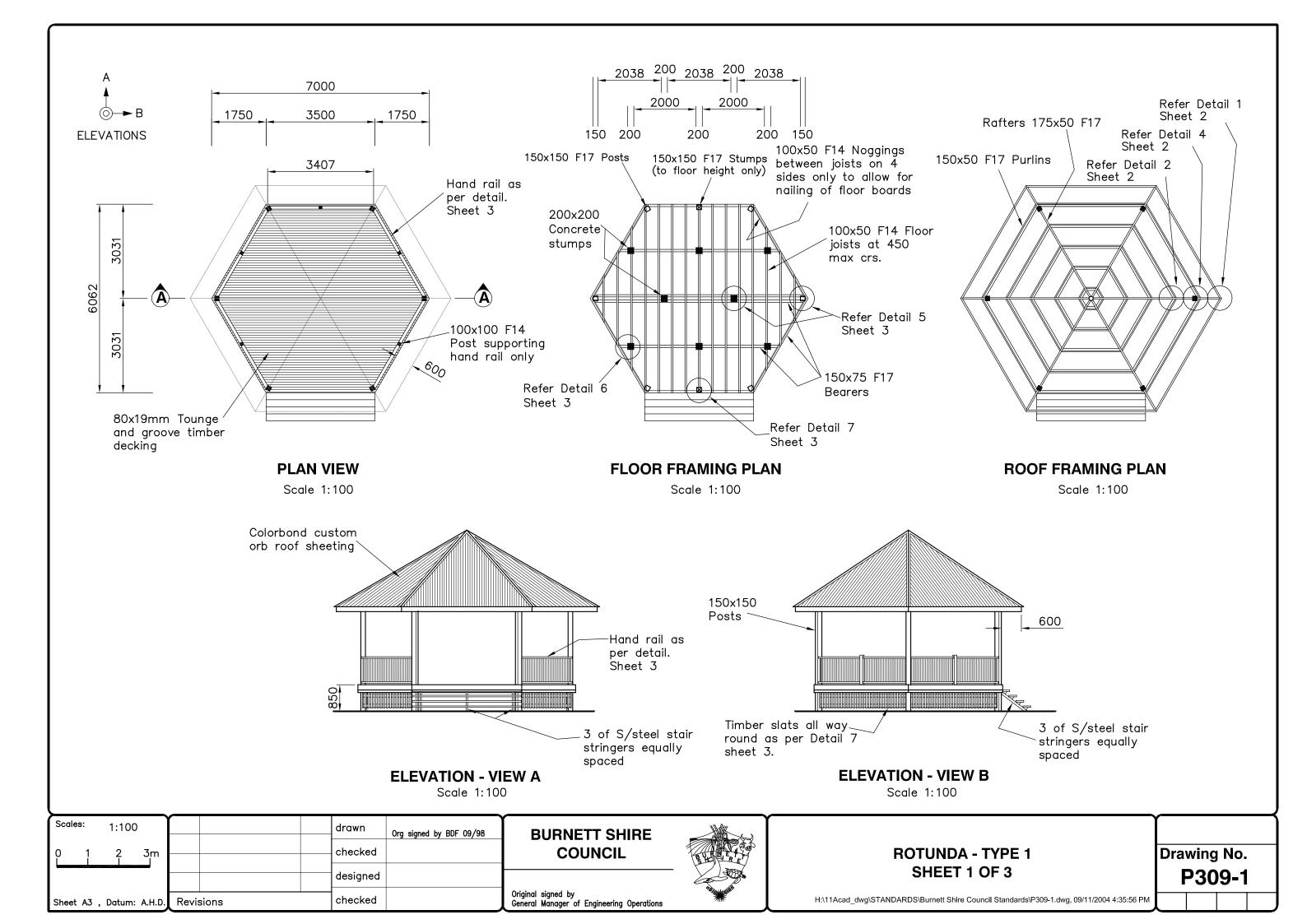


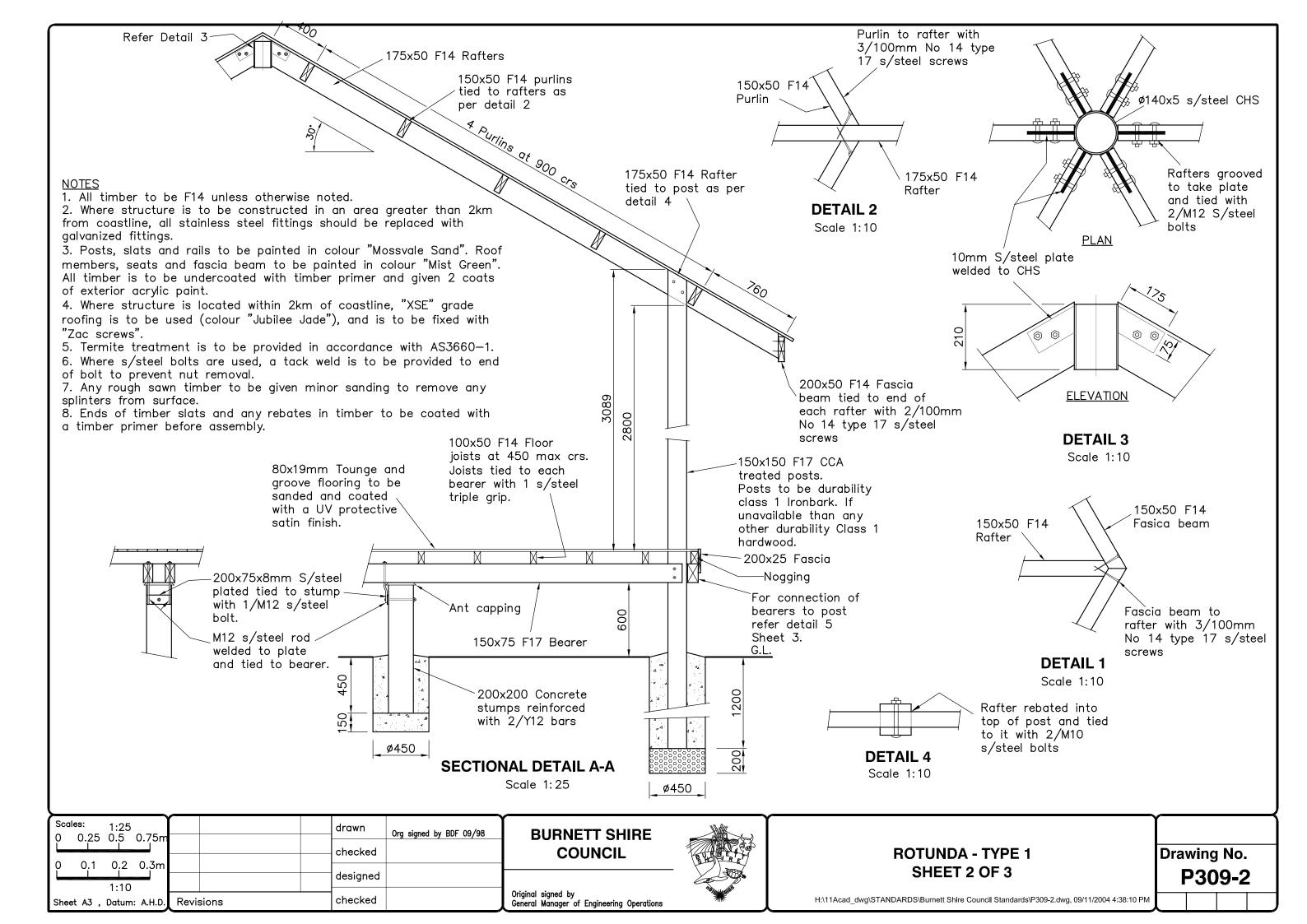
#### RECTANGULAR SHELTER - TYPE 2 SHEET 1 OF 2

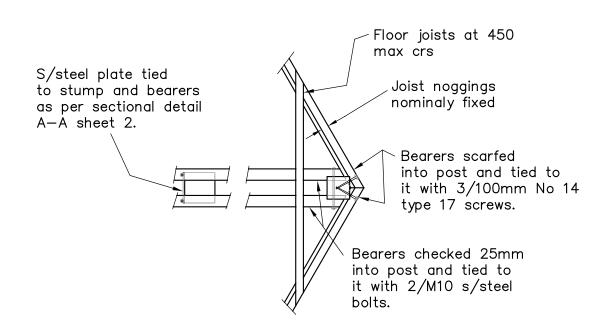
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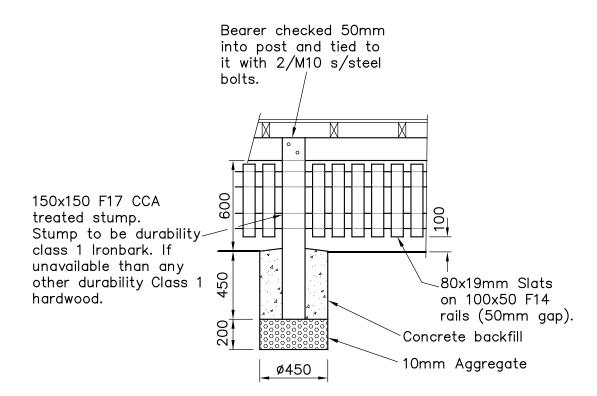




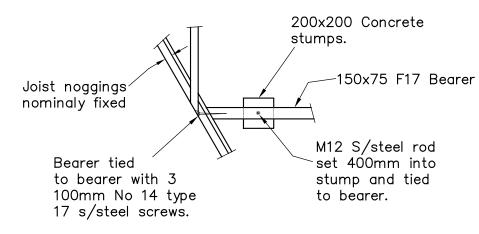




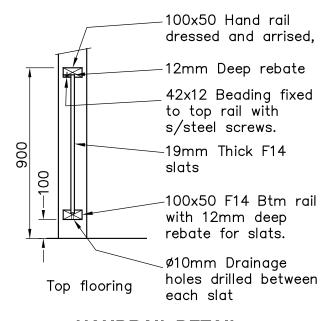
**DETAIL 5**Scale 1:25



**DETAIL 7**Scale 1: 25



**DETAIL 6**Scale 1:25



HANDRAIL DETAIL
Scale 1: 20

### Scales: 1:25 0 0.25 0.5 0.75m 0 0.2 0.4 0.6m 1:20 Sheet A3 , Datum: A.H.D. Revisions drawn Org signed by BDF 09/98 checked designed checked

### BURNETT SHIRE COUNCIL

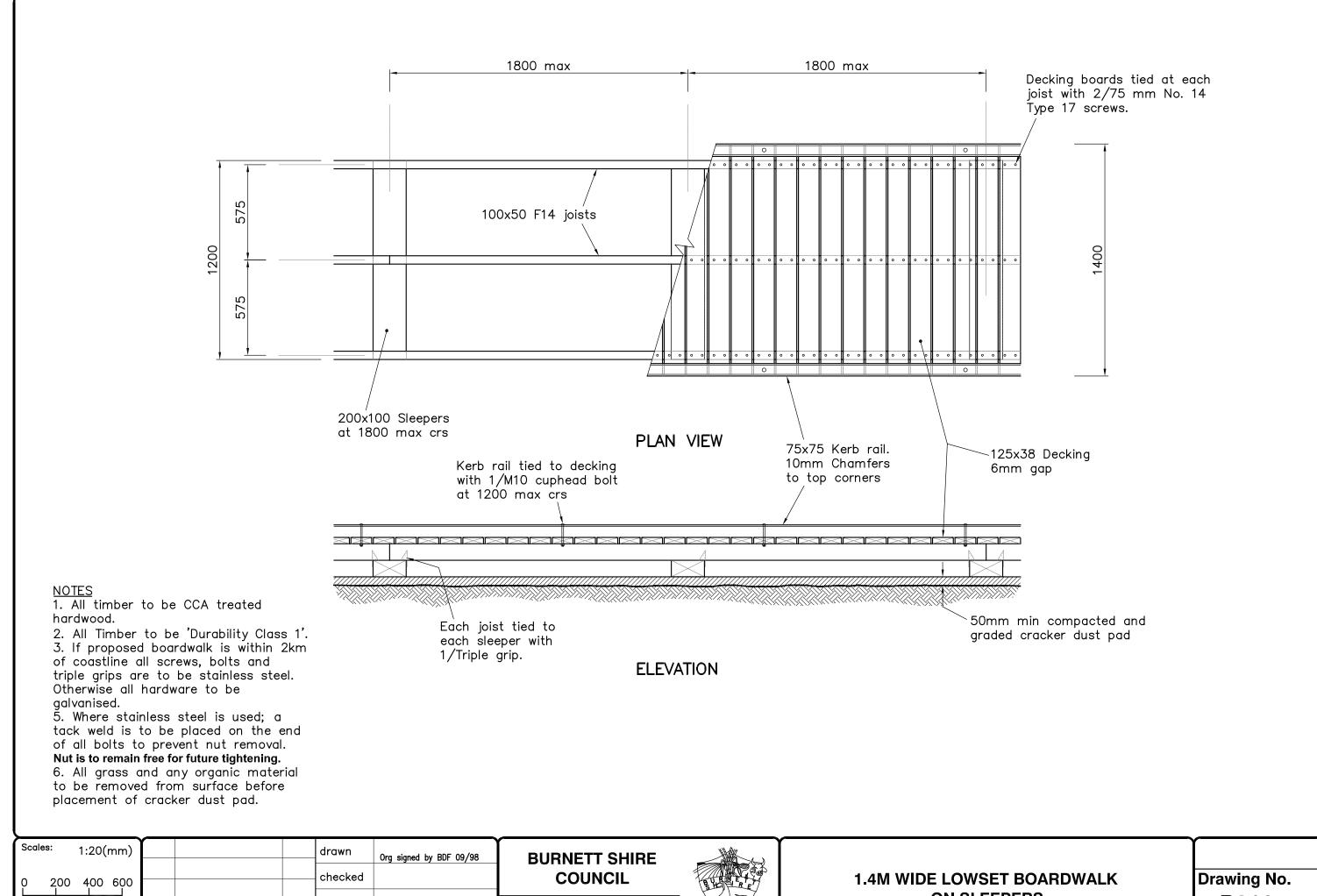
Original signed by General Manager of Engineering Operations



### ROTUNDA - TYPE 1 SHEET 3 OF 3

Drawing No. **P309-3** 

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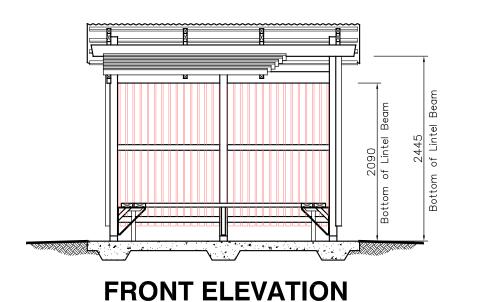
Original signed by General Manager of Engineering Operations

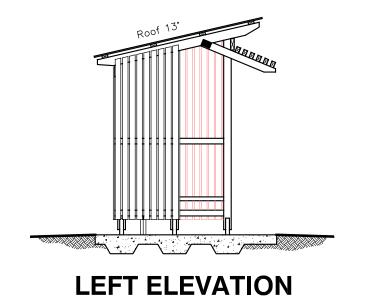


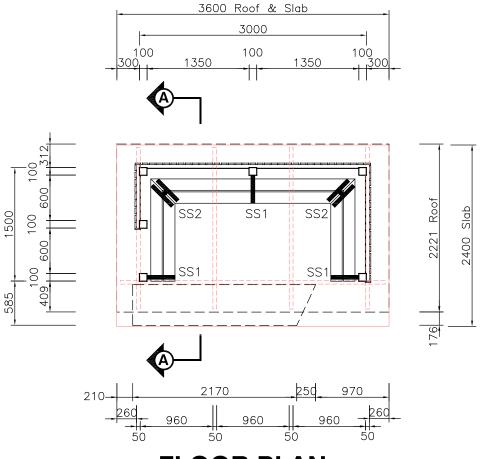
### **ON SLEEPERS**

P310

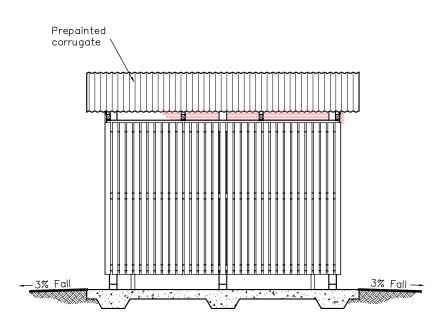
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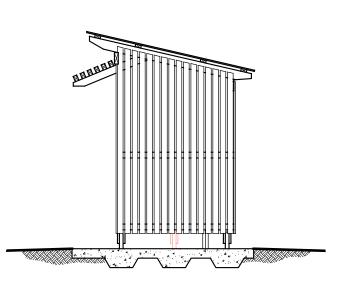




FLOOR PLAN SCALE 1:50



**SCALE 1:50** 



**SCALE 1:50** 

3600
3200
200
300, 1150 300, 1150 300
Floor thickening Y12 Rod Edge of slab

2x 6m Y12 Rod used to surround mesh

F82 Mesh

REAR ELEVATION SCALE 1:50

RIGHT ELEVATION SCALE 1:50

**FOUNDATION PLAN** SCALE 1:50

				_
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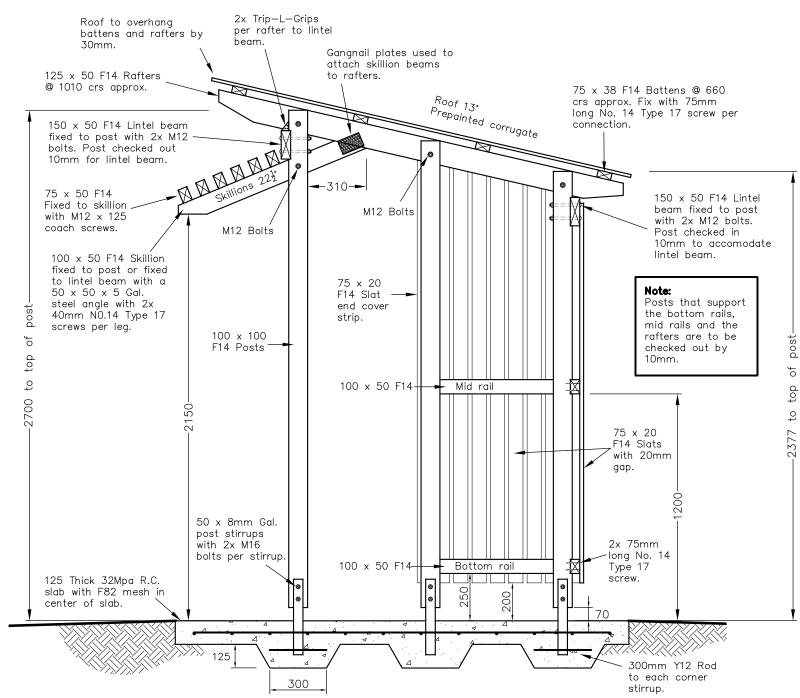
BURNETT SHIRE COUNCIL

Original signed by General Manager of Engineering Operations

BUS SHELTER - TYPE 3
SHEET 1 of 2
ELEVATIONS AND FLOOR PLANS

Drawing No. **P311-1** 

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### NOTES:

- 1. All timber is to be F14 H3 treated unless noted otherwise.
- 2. All timber edges are to be arissed. Rough sawn timber to be given minor sanding to remove splinters from timber surface.
- 3. Posts, slats and rails to be painted in Dulux colour "Mossvale Sand". Rafters, skillions, lintel beams and roof battens to be painted in Colorbond colour "Wilderness". All timber except skillion battens are to be undercoated with timber primer and given two coats of external acrylic paint. Skillion battens are to be coated with intergrain "UVC" according to manufacturer's specifications.
- 4. Prepainted corrugate to be colour "Wilderness" or equal.

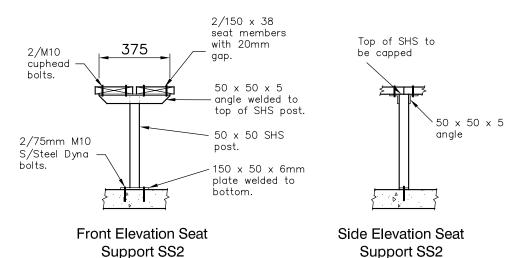
### **SECTION A-A**

**SCALE 1:20** 

- 5. Termite treatment provided in accordance with AS3660-1.
- 6. 200um Vapour barrier to be placed under slab.
- 7. All bolts, nails, screws, steel angles, seat supports and post stirrups are to be galvanized.
- 8. Structure & slab designed to be relocatable by removing top structure, inserting M16 bolts in each corner stirrup and with a D-shackle connection, lift slab using the corner stirrups. Before structure is removed, brace the front & left sides at the base to ensure stability.

## Seat frame to post with 2/M10 bolts. Cuphead to be on outside of post. 2/150 x 50 Seat members (arissed edges) to seat frame with 2/M10 bolts. 50 x 8mm Folded stainless steel seat frame. Top of Slab 50 x 8mm Strut welded to edge of seat support.

### Seat Support SS1



### **DETAIL B - SEAT SUPPORTS**SCALE 1:20

### NOTES FOR SHELTERS WITHIN 500m FROM COAST

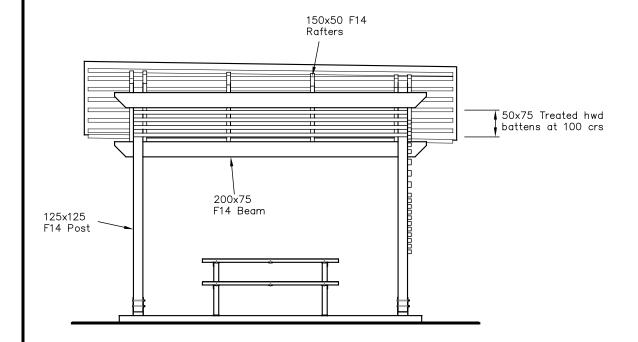
- 1. If the structure is within 500m from the coastline then all steel bolts, screws, nail plates, steel angles, post stirrups & nails shall be Stainless Steel at marine grade 316.
- 2. Seat supports to be stainless steel (316).
- 3. Roof sheeting to be prepainted 'ULTRA' or G7 corrugate with "ZAC4" roof screws to suit. Colour to be "Wilderness". Batten Srews to be stainless steel.
- 4. All bolts to be stainless steel cuphead (min grade 304).
- 5. Skillion battens to be coated with Intergrain product "UVC" to manufacturer's specs. including four final coats of "UVC".

### 

### BUS SHELTER - TYPE 3 SHEET 2 of 2 SECTION AND DETAILS

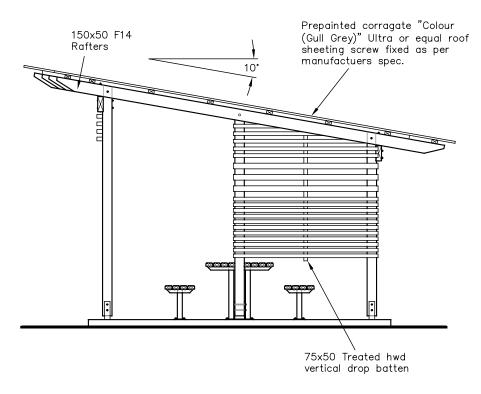
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**ELEVATION - VIEW B** 

SCALE 1:50



**ELEVATION - VIEW A** 

SCALE 1:50

### **NOTES**

### **CONCRETE WORK**

- 1. All concrete work is to be executed in accordance with the current edition of :
  - AS 3600 SAA concrete structures code.
  - AS 1379 Ready mixed concrete.
- 2. Characteristic compressive strength of the concrete (F'C) must not be less than 32 MPa at 28 days u.n.o.
- 3. The maximum size of aggregate shall be 20mm.
- 4. Concrete slump shall be 80mm  $\pm$  15.
- 5. All concrete to be vibrated.
- 6. Plastic chairs to be used to support reinforcement and give the correct concrete cover.
- 7. All top soil and upper strata containing organic matter is to be removed. 'D' class pad to be placed and compacted to 95 M.M.D.D. in accordance with AS 1289 E 2.1.
- 8. Area below slab to be treated in accordance with AS 3660 for termite protection.
- 9. Council's electrician John Kennedy Ph. (07)41505587 is to be contacted in regard to possible conduit placement prior to pouring of any concrete.

### **STRUCTURE**

- 1. Roof sheeting to be equivalent to "Ultra" Colorbond custom orb colour ("Gull Grey") fixed with roofing screws to manufacturers specification.
- 2. All fixings including nails, screws, bolts, straps, brackets, post stirrups and grab rails to be stainless steel. All stainless steel to be marine grade 316 (except for roof sheeting screws).

### **TIMBER**

- 1. All timber to be F14 unless noted otherwise on plans.
- 2. All timber to be H3 treated.
- 3. All cuts, end grains and joins in timber must be sanded and primed before joining.
- 4. All visible timber to be arrissed including end cuts on purlins and beams.
- 5. All timber to have sanded edges.

### **ELECTRICAL**

1. Electrical work will be carried out by council electrician contact John Kennedy (07) 41505587.

### PAINTING

- 1. Bearers to be painted in colour Dulux "Wedgewood".
- 2. Posts to be painted in colour Dulux "Corio Blue".
- 3. Roof battens to be painted in colour Dulux "Anoteck XT Silver Grey".
- 4. Rafters and Fearure Battens to be painted in colour Dulux "Seared Earth".
- 5. Picnic table frames to remain unpainted. Timber tops and seats to be painted "Corio Blue".
- 6. All timber is to be undercoated with timber primer and given 2 coats of external acrylic paint.

Scales:	1 : 50		drawn	Org signed by MLP 01/05
0 0.5	0.1 1.5m		checked	
			designed	Org signed by RMC 01/05
Sheet A3 ,	Datum: A.H.D.	Revisions	checked	,

### BURNETT SHIRE COUNCIL

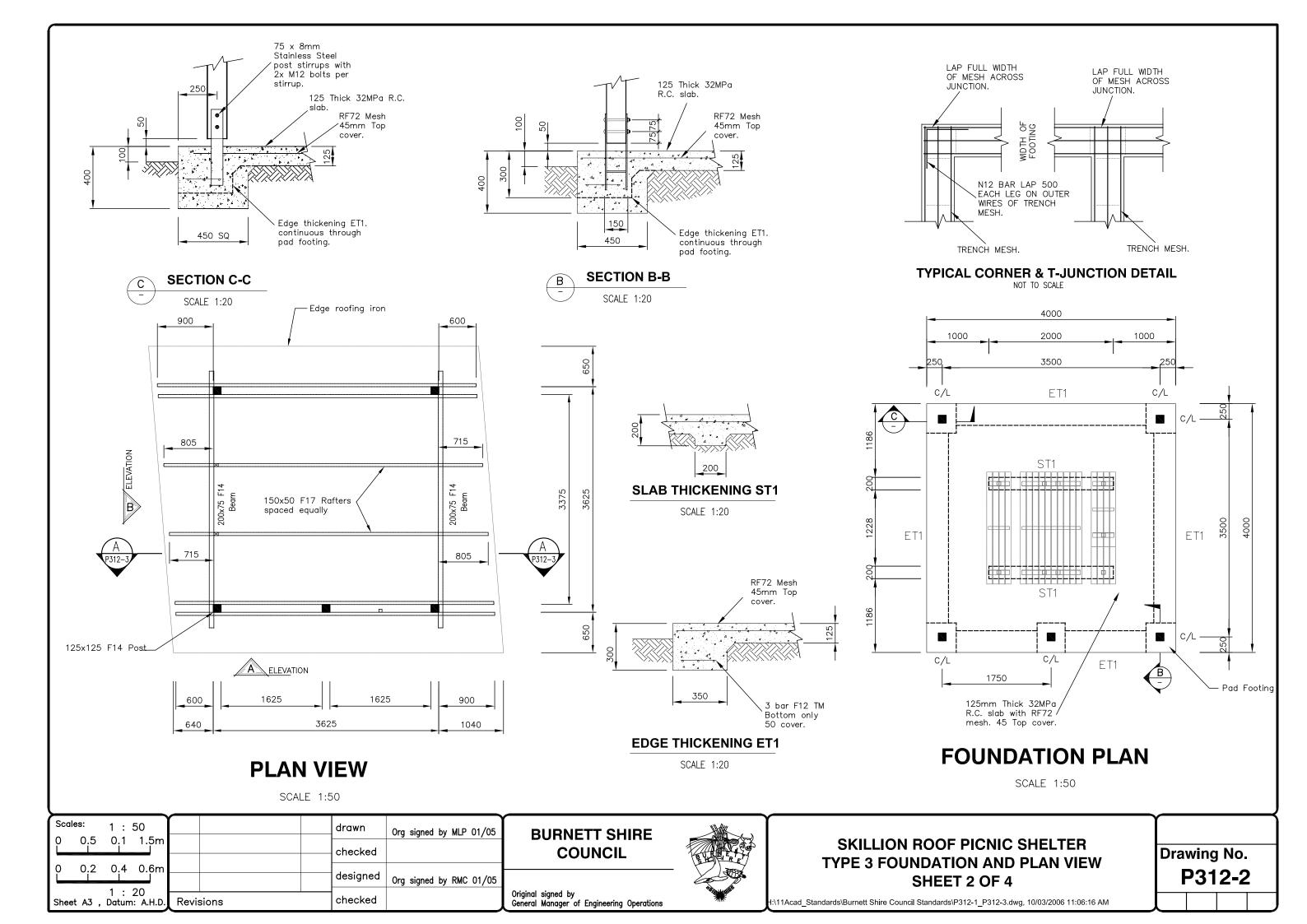
Original signed by General Manager of Engineering Operations

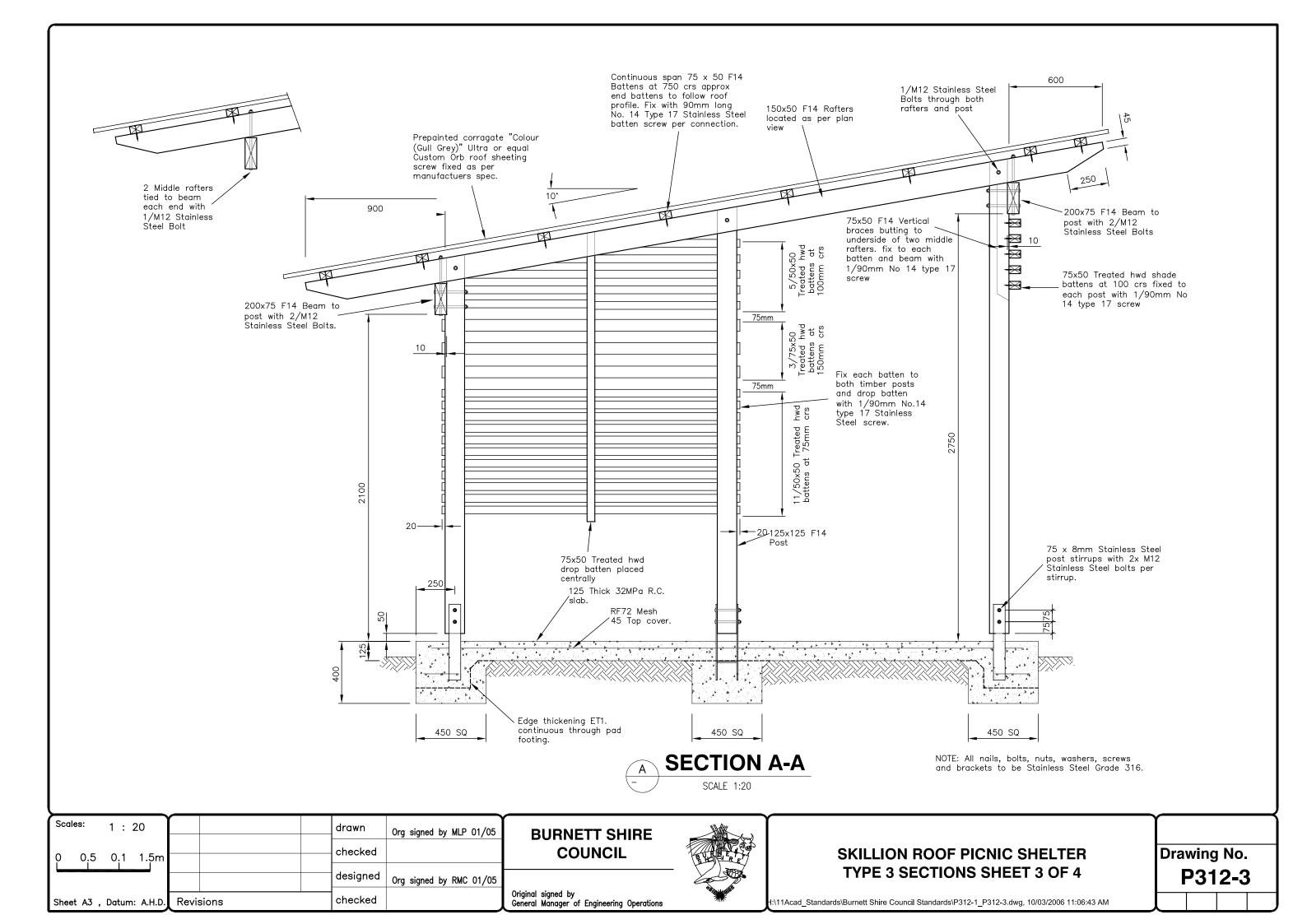


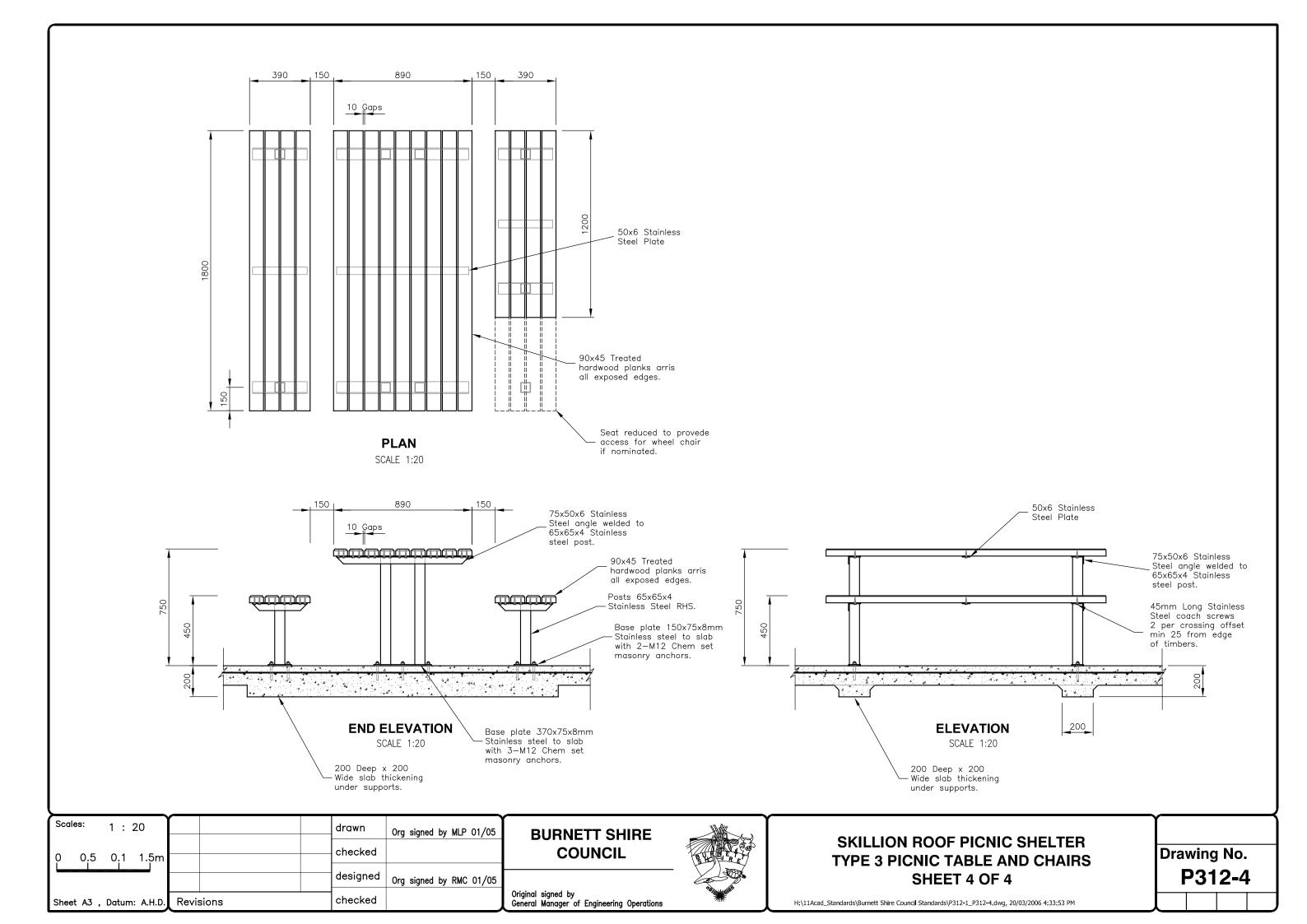
### SKILLION ROOF PICNIC SHELTER TYPE 3 ELEVATIONS SHEET 1 OF 4

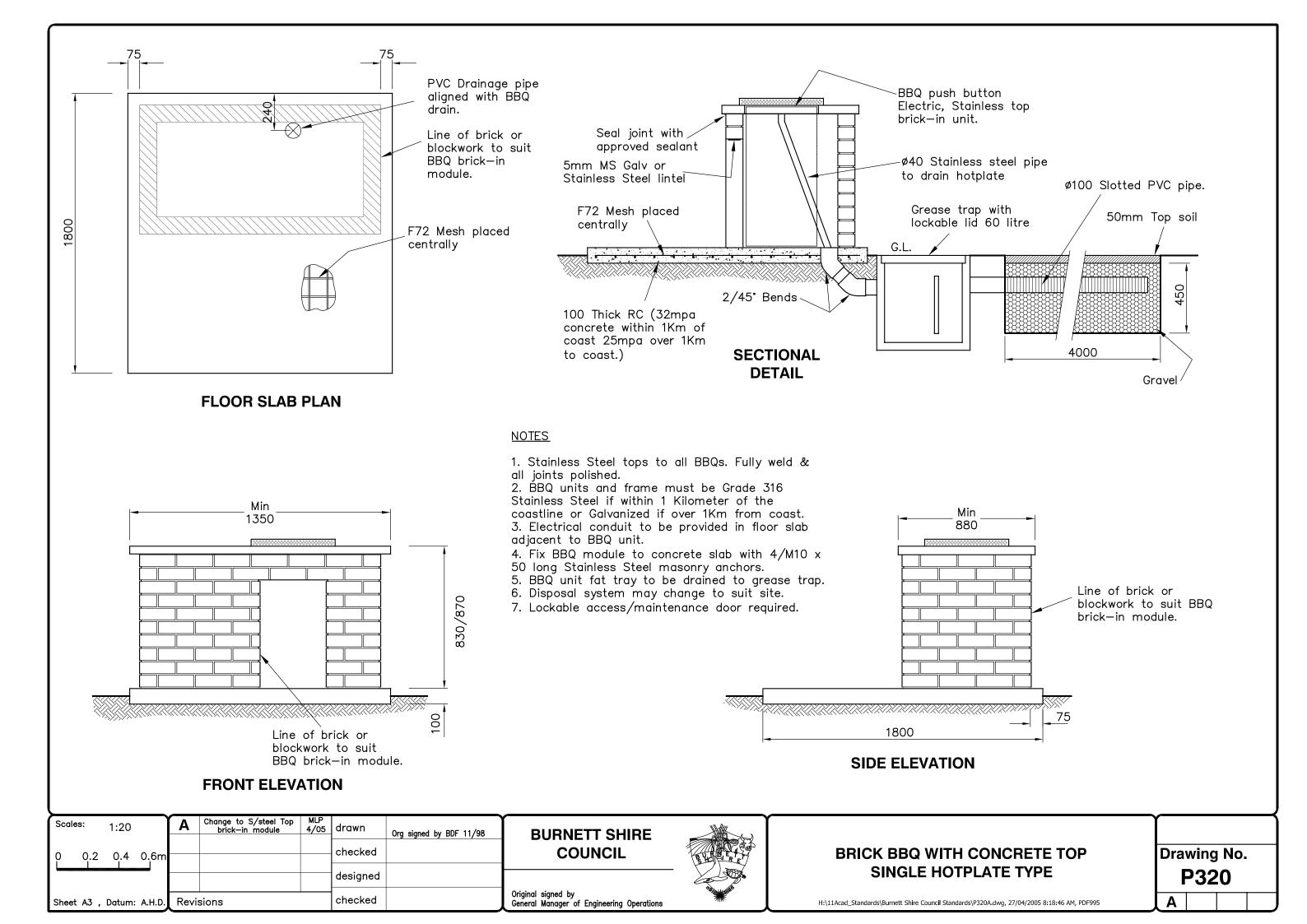
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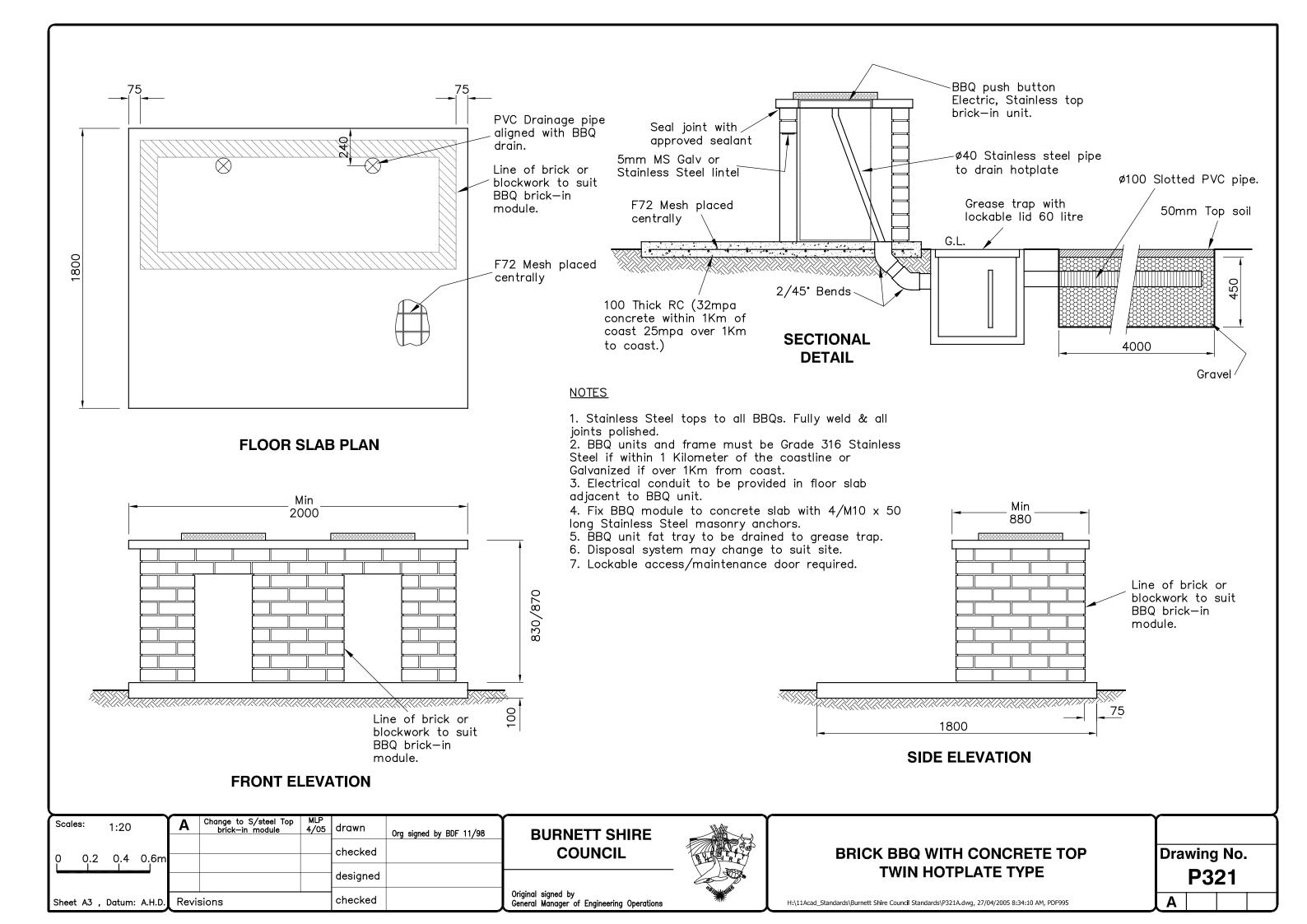
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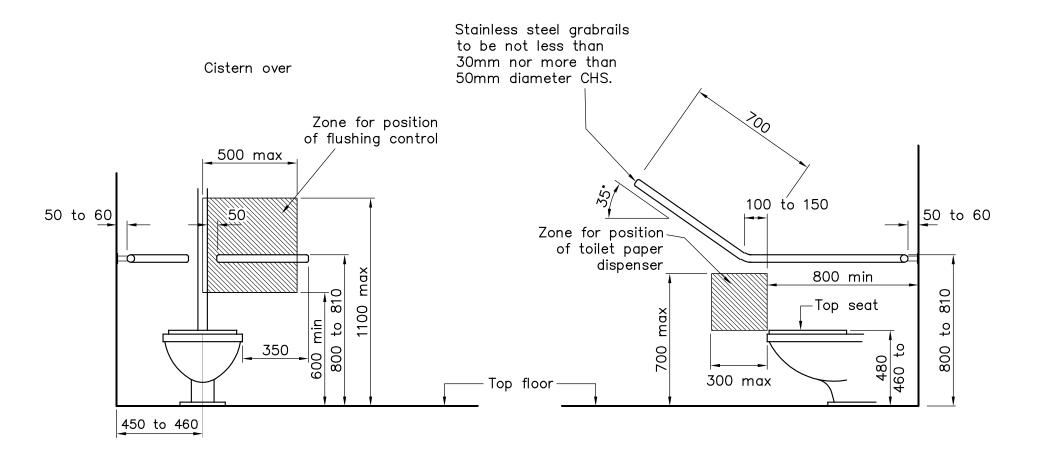












### WC FRONT ELEVATION

### WC SIDE ELEVATION

**Note**: Details and dimensions for toilet in opposite corner to that shown to be mirror reversed.

Scales:	1:20		drawn	Org signed by BDF 06/99	
0 0.2	0.4 0.6m		checked		
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Sheet A3 ,	Datum: A.H.D.	Revisions	checked		O G

### BURNETT SHIRE COUNCIL

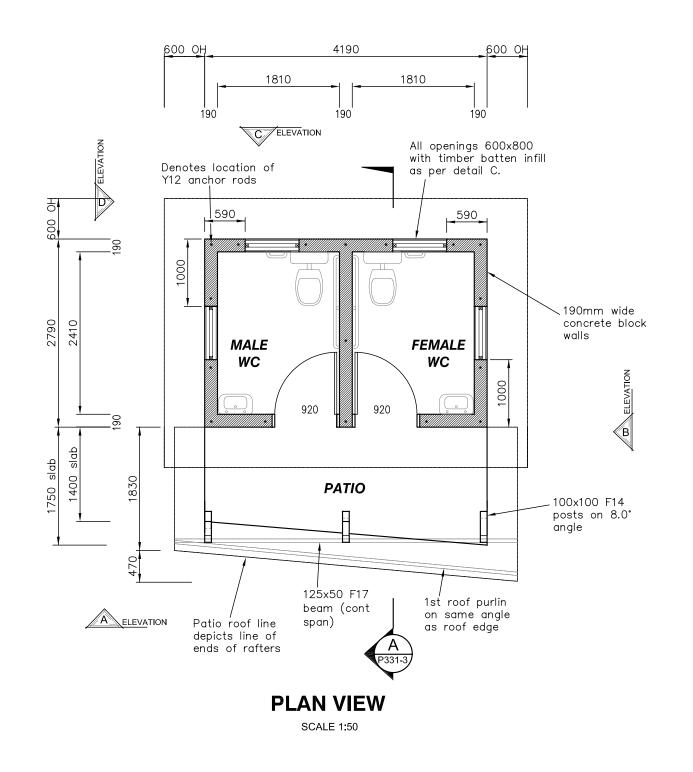
COUNCIL

Original signed by
General Manager of Engineering Operations

### TOILET FIXTURE LOCATIONS FOR DISABLED PERSON'S TOILET

Drawing No. **P330** 

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### **W50C**

### Bracing calculations

Wind force in direction a = 11.3 kN

Racking resistance supplied by 190mm wide reinforced concrete block wall = 47.6 kN

Wind force in direction b = 13 kNracking resistance supplied by reinforced concrete block walls = 32.2kN

All cores containing anchor rods to be filled with 15 MPa grout.

### **BRACING CALCULATIONS**

Scales: Org signed by BGC 11/04drawn checked designed | Org signed by RMC 11/04 checked Sheet A3 , Datum: A.H.D.

### **BURNETT SHIRE** COUNCIL

Original signed by General Manager of Engineering Operations



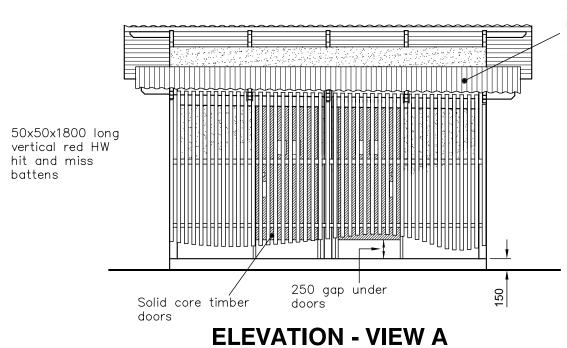
MALE/FEMALE AMENITIES BLOCK - TYPE 1 **FLOOR PLAN** SHEET 1 of 6

STANDARD DRAWING

ASSOCIATED PLAN NUMBERS P331-1 TO P331-6

Drawing No. P331-1

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Prepainted Custom Orb roof sheeting. Roofin spot "Ultra" or MRI "G7". (colour "Wilderness")

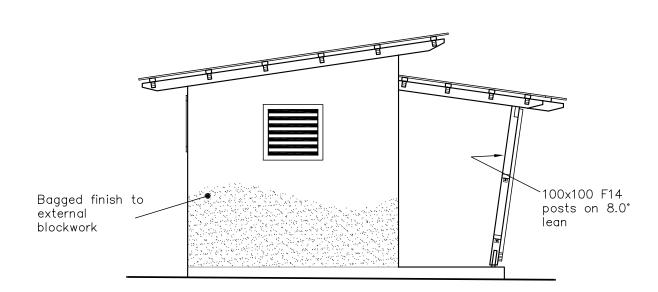
> 50x50x1800 approx long vertical red hw hit and miss battens

Cut blockwork on rake on rake Support for battern outrigger only.

Bagged finish to external blockwork

### **ELEVATION - VIEW B**

SCALE 1:50



**SCALE 1:50** 

# Prepainted Custom Orb roof sheeting. Roofin spot "Ultra" or MRI "G7". (colour "mist green") 1 sheet of grey polycarbonate custom orb 600x800 opening with batten in fill

### **ELEVATION - VIEW D**

SCALE 1:50

### **ELEVATION - VIEW C**

SCALE 1:50

## Scales: drawn Org signed by BGC 11/04 0 0.5 1 1.5m checked 1:50 designed Org signed by RMC 11/04 Sheet A3 , Datum: A.H.D. Revisions

### BURNETT SHIRE COUNCIL

Original signed by General Manager of Engineering Operations



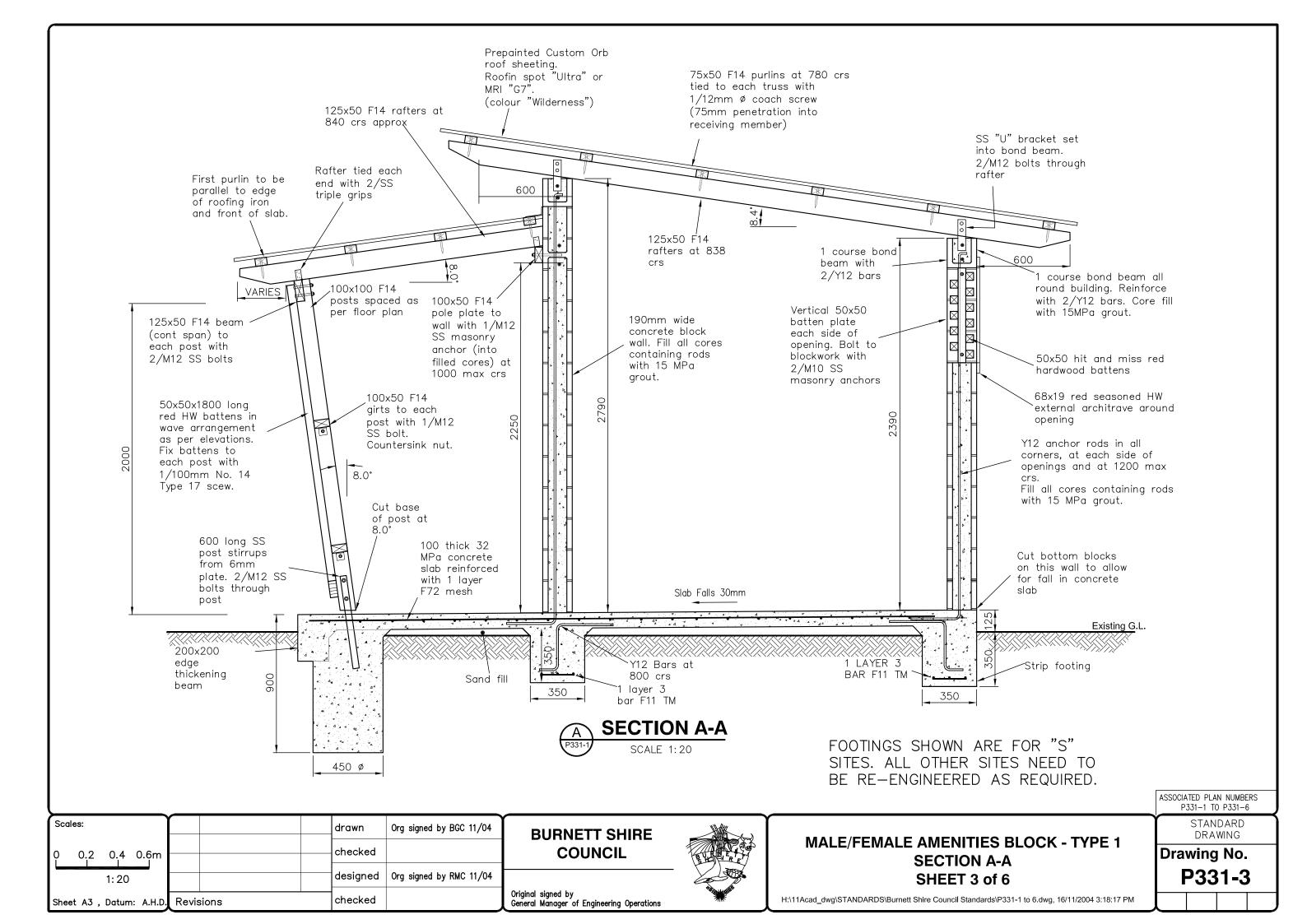
### MALE/FEMALE AMENITIES BLOCK - TYPE 1 ELEVATIONS SHEET 2 of 6

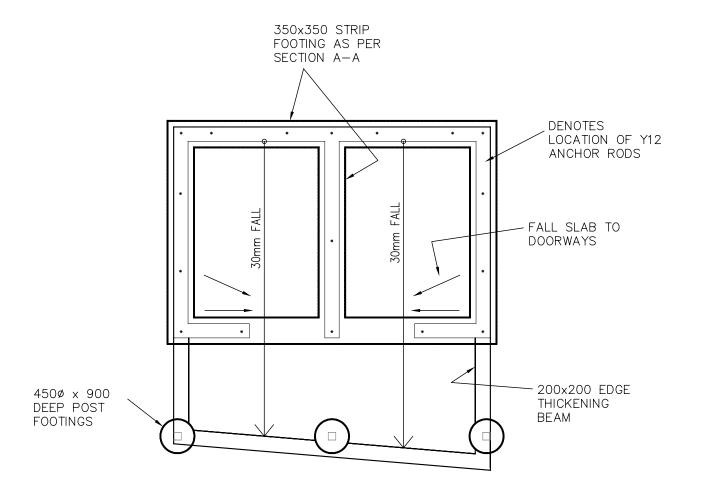
STANDARD DRAWING

ASSOCIATED PLAN NUMBERS P331-1 TO P331-6

Drawing No. **P331-2** 

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### **FOUNDATION PLAN**

SCALE 1:50

Scales:		drawn	Org signed by BGC 11/04
0 0.5 1 1.5m		checked	
1: 50		designed	Org signed by RMC 11/04
Sheet A3 , Datum: A.H.D.	Revisions	checked	

### **BURNETT SHIRE** COUNCIL

Original signed by General Manager of Engineering Operations

### MALE/FEMALE AMENITIES BLOCK - TYPE 1 **FOUNDATION PLAN** SHEET 4 of 6

STANDARD DRAWING

ASSOCIATED PLAN NUMBERS P331-1 TO P331-6

Drawing No.

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P331-4

### **NOTES**

### Plumbing fixtures - signs - fittings

- 1. Wall basins Concorde 500, 1 tap hole white with D200 brackets.
- 2. Tapware ram easyclean ceramic disc with lever handle.
- 3. Toilet suites (disabled) Concorde care pan white. Concorde mid—level cistern with extended flush pipe. Paramount single flap toilet seat white.
- 4. Toilet roll holders (2 in total) are available from council and hung by builder.
- 5. Signs to be supplied by council and hung by builder on doors. Signs include : 1  $\times$  'mens', 1  $\times$  'ladies', 2  $\times$  disabled persons.
- 6. Door indicator locks (refer DWG. No. P336) will be supplied by council and fitted by builder.

Note — plumbing fixtures are as specified from tradelink plumbing supplies for disabled persons. Fittings equal to those specified are required if another supplier is used.

### Concrete work

- 1. All concrete work is to be executed in accordance with the current edition of : AS 3600 SAA concrete structures code.
  - AS 1379 Ready Mixed Concrete.
- 2. Characteristic compressive strength of the concrete (F'c) must not be less than 32 MPa at 28 days U.N.O.
- 3. The maximum size of aggregate shall be 20mm.
- 4. The concrete shall slump test at not less than 25mm and not more than 100mm.
- 5. All concrete to be vibrated.
- 6. Plastic chairs to be used to support reinforcement and give the correct concrete cover.
- 7. All top soil and upper strata containing organic matter is to be removed. 'D' class pad to be placed and compacted to 95 M.M.D.D. In accordance with AS 1289 E 2.1.
- 8. Area below slab to be treated in accordance with as 3660 for termite protection.
- 9. Floor slab to fall as indicated on drawing No. 80023.
- 10. Council's electrician is to be contacted in regard to possible conduit placement prior to pouring of any concrete.

### Structure

- 1. All external walls to be 190mm wide concrete blockwork. Blockwork to have bagged finish.
- 2. Roof sheeting to be colorbond "ultra" custom ORB or MRI "G7" (colour 'Wilderness') fixed with zac screws to manufacturers specification. Note: roofing may require an order lead time of approximately 3 weeks.
- 2. All fixings including nails, screws, bolts, straps, brackets, post stirrups and grab rails to be stainless steel. All stainless steel to be marine grade 316.

### Timber

- 1. All timber to be F14 unless noted otherwise on plans.
- 2. All timber to be H3 treated.
- 3. All cuts, end grains and joins in timber must be primed or sealed before joining.

- 3. Doors to be solid timber. All doors to have stainless steel indicator bolts as specified by a council design office representative. Self closing stainless steel hinges to be placed on doors (i.e., hold door in closed position when not in use).
- 5. All visible timber to be arrissed including end cuts on purlins and beams.
- 6. Small rubber adhesive pads to be fixed to door jamb to reduce noise from slamming doors.

### **Painting**

- 1. All blockwork to bagged and painted with 1 coat of sealer/undercoat and two top coats of gloss acrylic in the following colours:
- \* Dulux 'Mary Janes' external block walls.
- \* Dulux 'Mossvale Sand' all interior walls.
- \* Colourbond colour 'Wilderness' rafters, beam, doors and posts.
- \* all feature battens, external window architraves and purlins to be finished in one of the following coating systems:
- (i) wash all timber with "Intergrain Timber Restorer", prime timber with one saturation coat of "Intergrain Dimension 4" all round (including all cuts, end grains, etc.) and finish with three top coats of "Intergrain DWD".

<u>Or</u>

(ii) wash all timber with "Woodmans Wood Wash", prime timber with one saturation coat of "Woodmans Prime—all" all round (including all cuts, end grains, etc.) and finish with three top coats of "Woodmans Decks".

### Plumbing / drainage

- 1. Sewerage to be treated through a sand filtration system using a 6000 litre concrete primary tank with outlet filtration. System to be capable of sustaining a 1260 (averaged over a 7 day period) litres per day treatment.
- 2. All plumbing and drainage to comply with the sewerage and water supply act, sewerage and water law, australian standards 3500 and council requirements.
- 3. No hot water will be supplied to amenities block.
- 4. One external keyed tap is to be fitted to outside of building as directed by design office.

### Electrica

1. Electrical work to carried out or directed by council electrician.

ASSOCIATED PLAN NUMBERS P331-1 TO P331-6

> STANDARD DRAWING

Drawing No. **P331- 5** 

 Scales:
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 Org signed by BGC 11/04

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 Org signed by RMC 11/04

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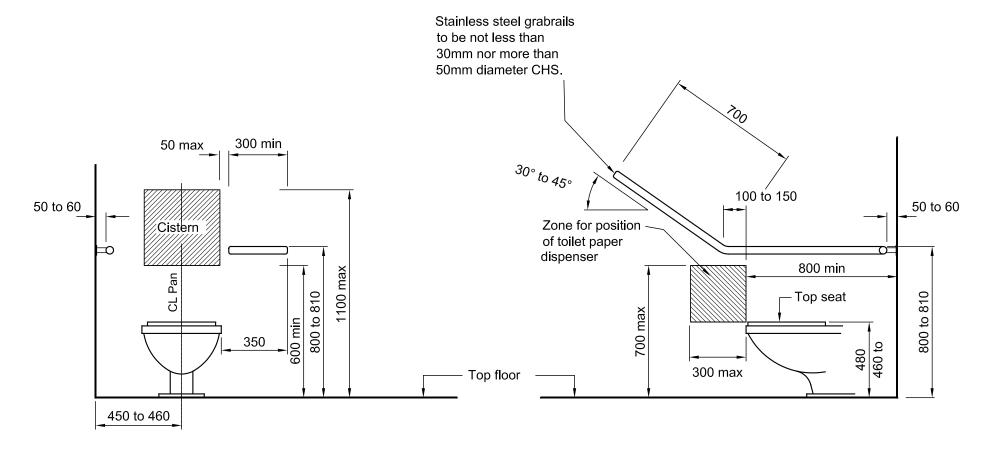
BURNETT SHIRE COUNCIL

Original signed by General Manager of Engineering Operations



### **NOTES**

- 1. Any light switches, power points or door handles in disabled persons toilet to be 900 to 1100 above finished floor level.
- 2. Front of hand basin to be 770 to 800 to top of basin above finished floor level.
- 3. Lever type tap handle to be used in disabled persons hand basin.
- 4. Clear space of 290mm min is to be provided between finished floor level and underside of pipework (below basin).



### **WC FRONT ELEVATION**

### WC SIDE ELEVATION

### **FEMALE TOILET FIXTURES LAYOUT**

MIRROR REVERSE FOR MALE TOILET

Scales: Org signed by BGC 11/04 drawn checked designed | Org signed by BGC 11/04 checked Revisions Sheet A3, Datum: A.H.D.

**BURNETT SHIRE** COUNCIL

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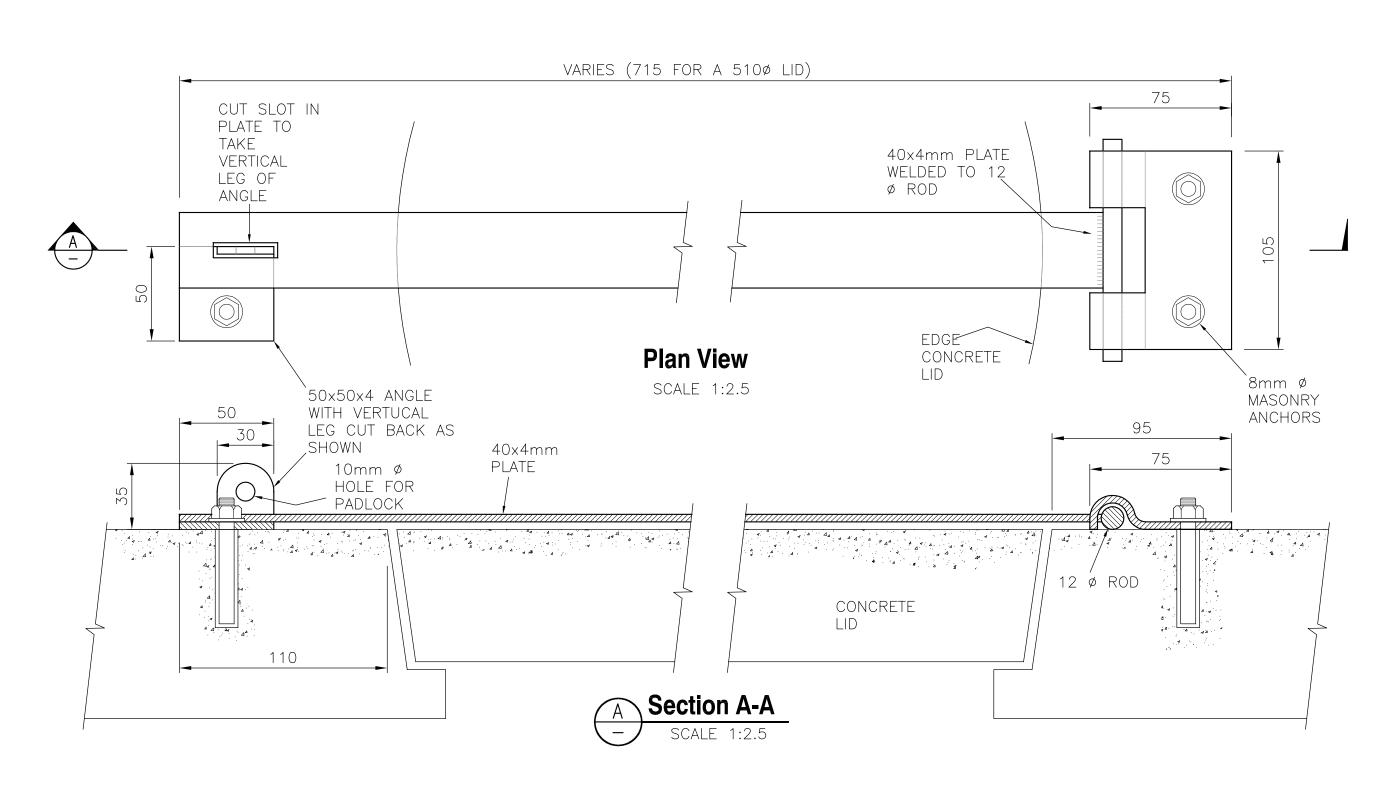
### MALE/FEMALE AMENITIES BLOCK - TYPE 1 **TOILET FIXTURES LAYOUT** SHEET 6 of 6

STANDARD DRAWING

ASSOCIATED PLAN NUMBERS P331-1 TO P331-6

Drawing No. P331-6

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### NOTE:

If structure is to be within 2km of coast line, than all steel & bolts are to be stainless steel grade 316.

\* Hinge to be only used in areas that are restricted access area to the public.

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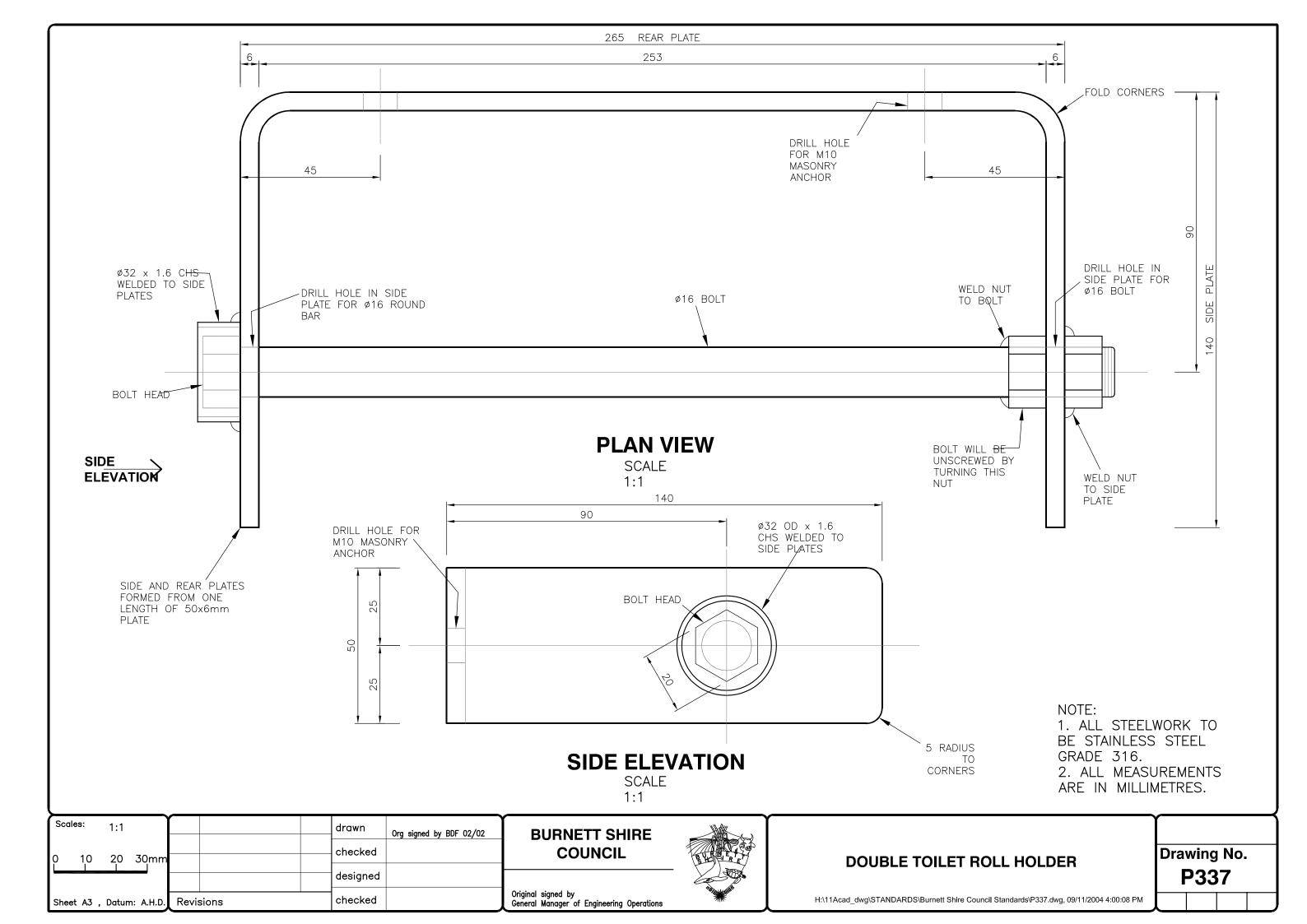
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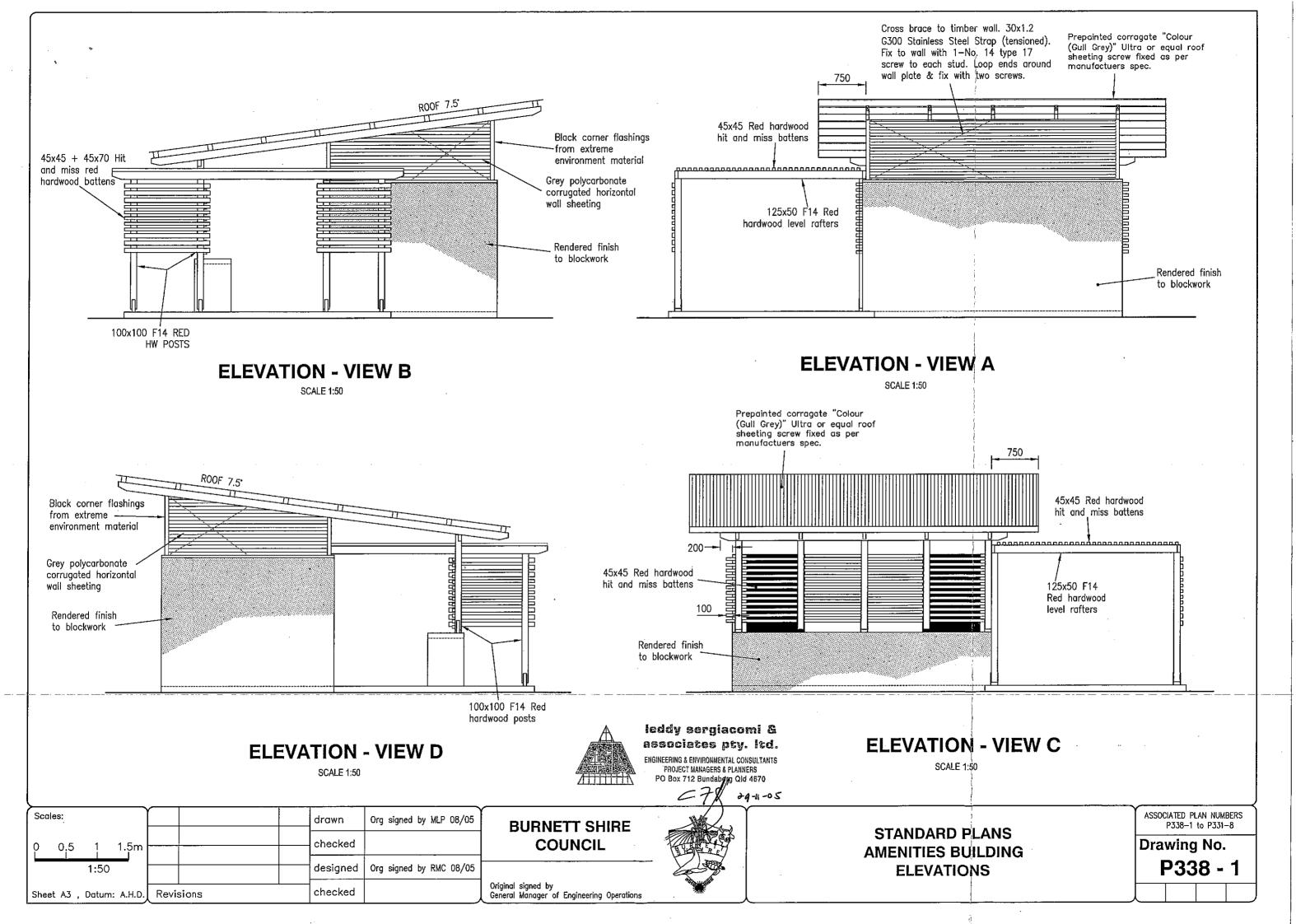


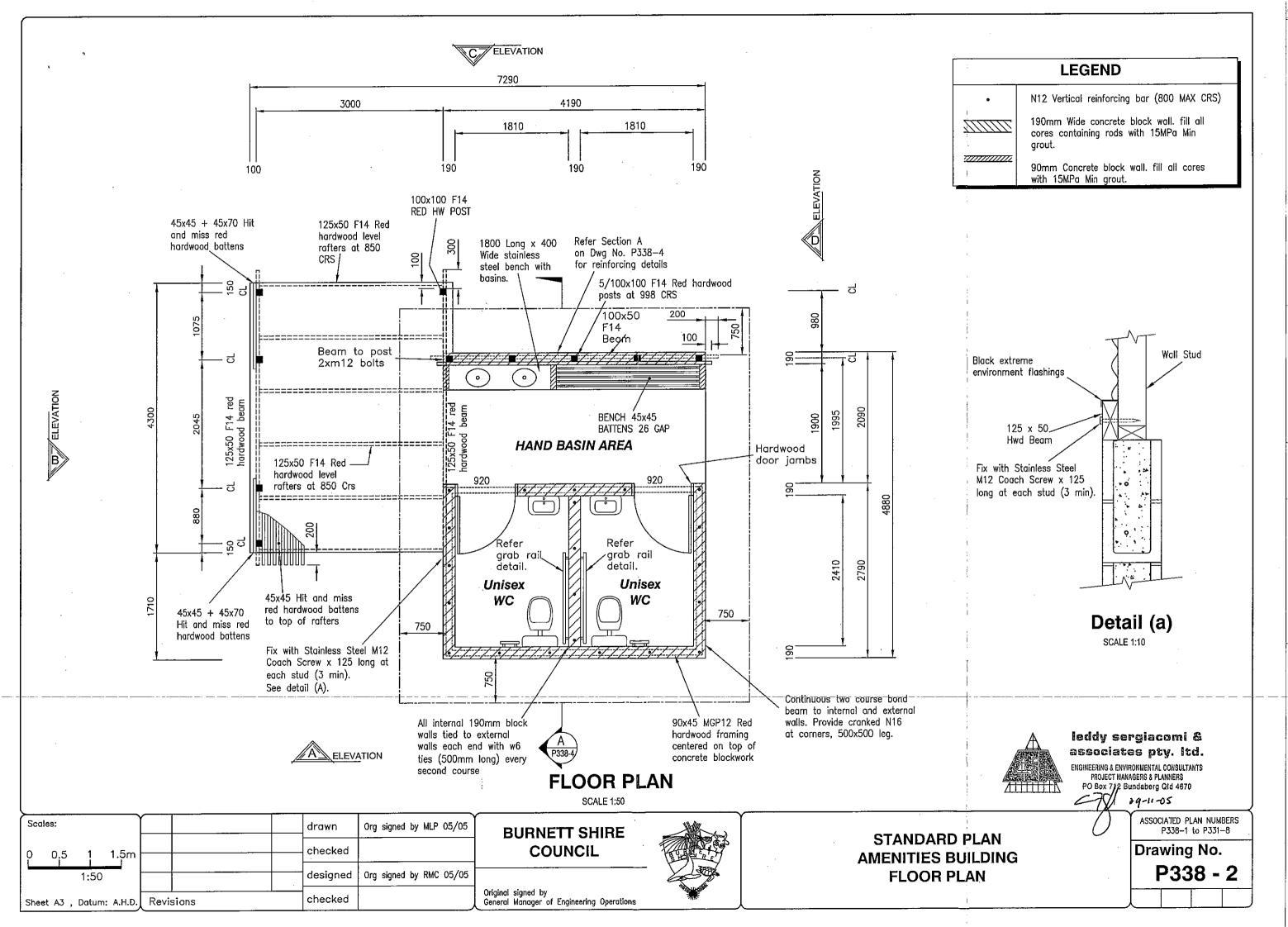
### HINGED LOCKING PLATE FOR CONCRETE SEPTIC TANK LID

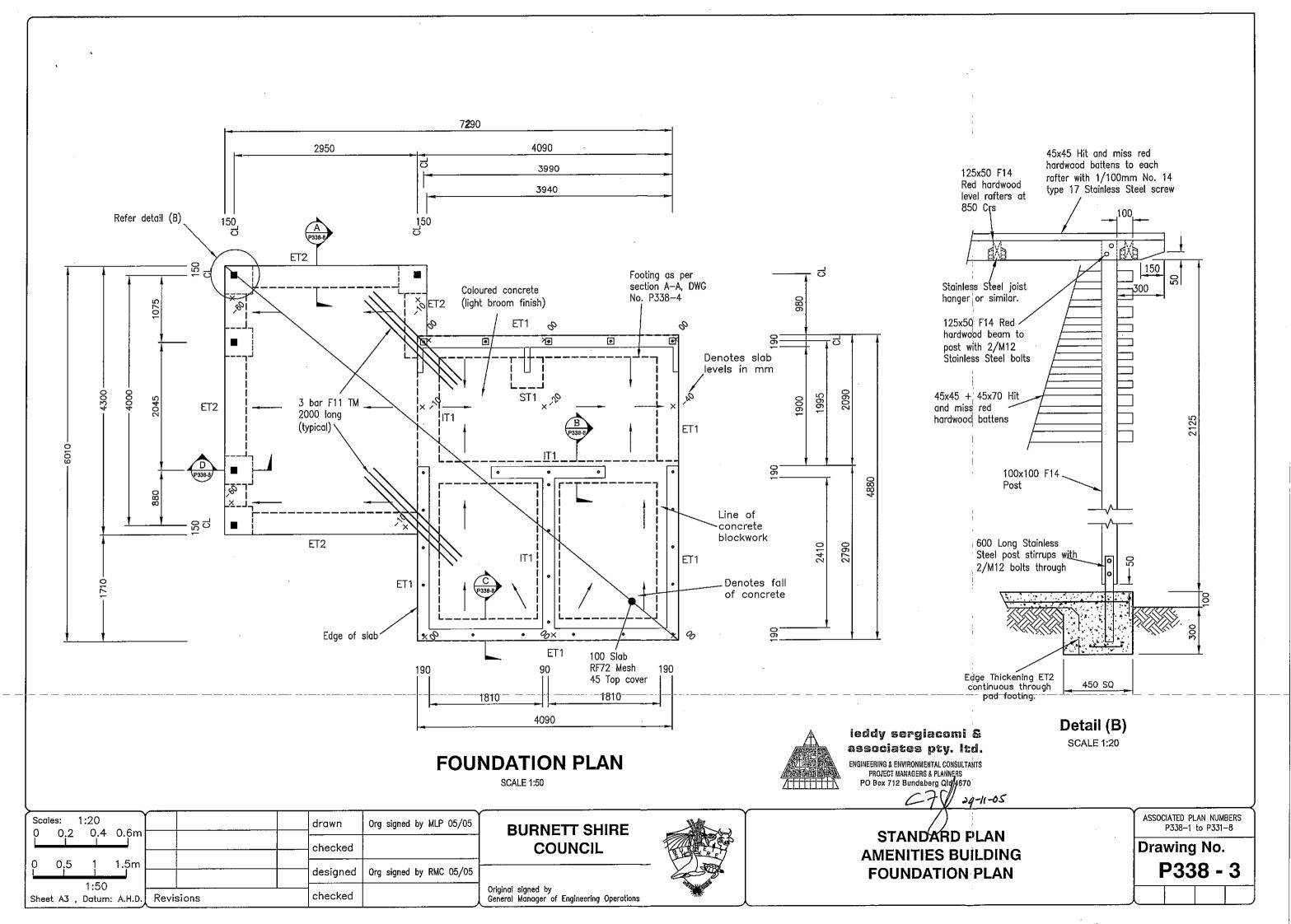
Drawing No. **P335** 

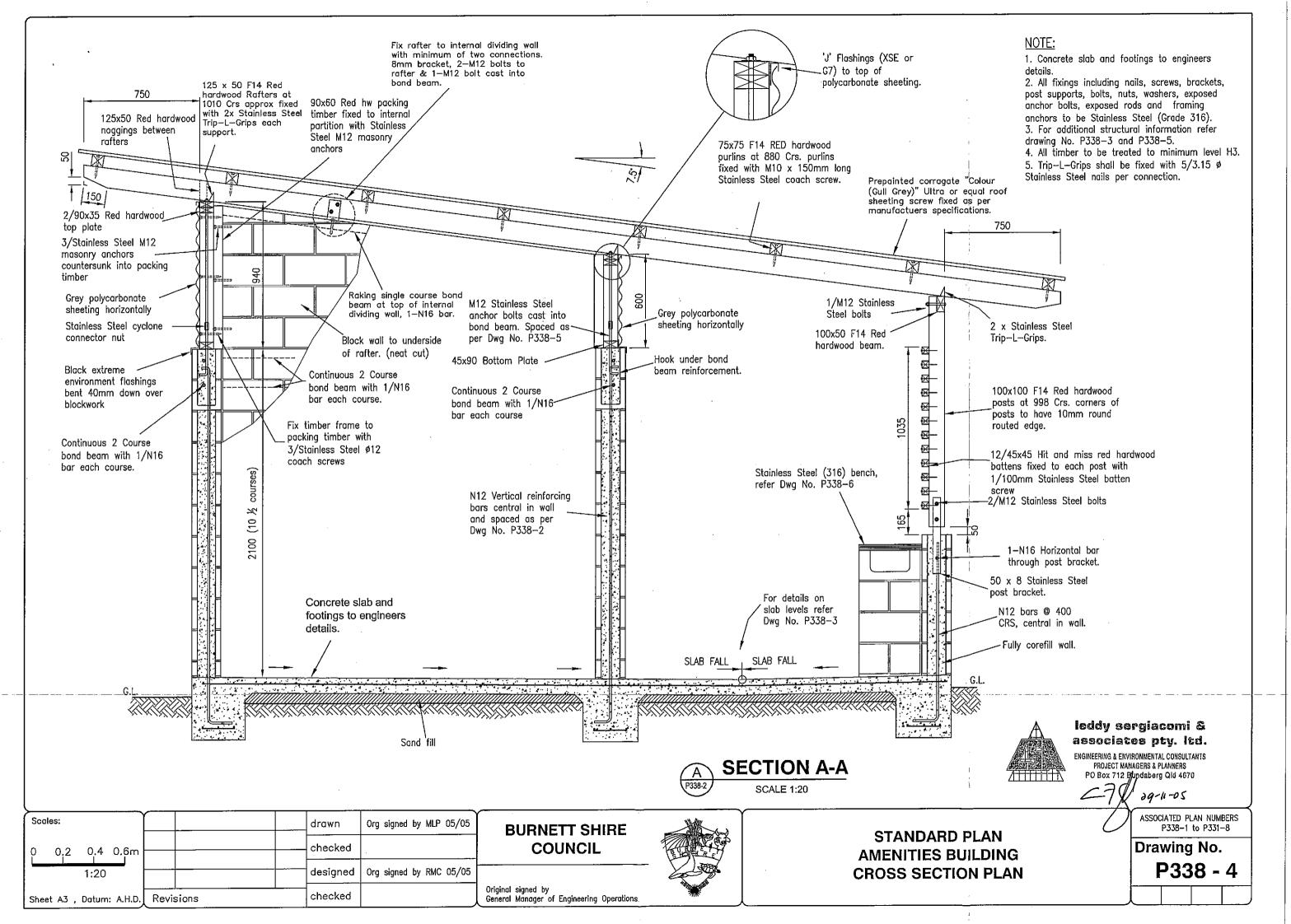
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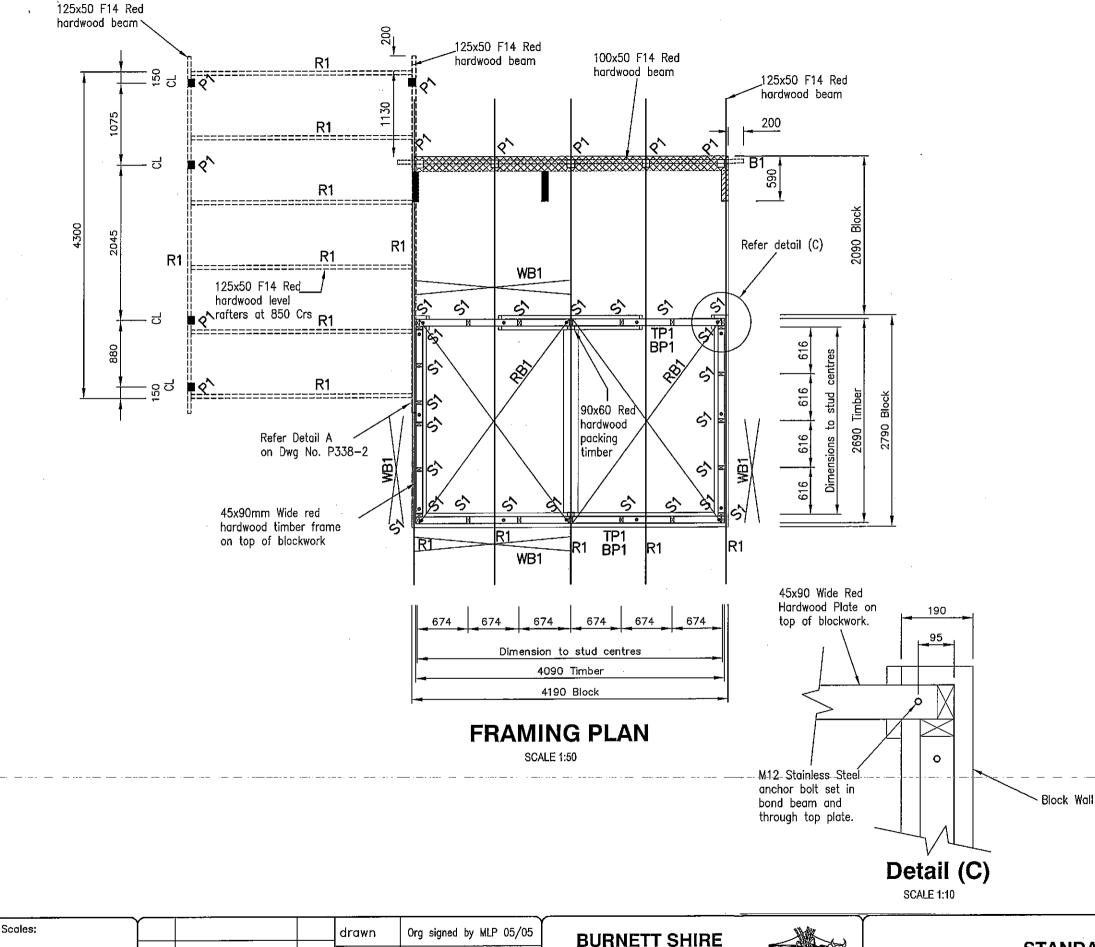












COUNCIL

Original signed by General Manager of Engineering Operations

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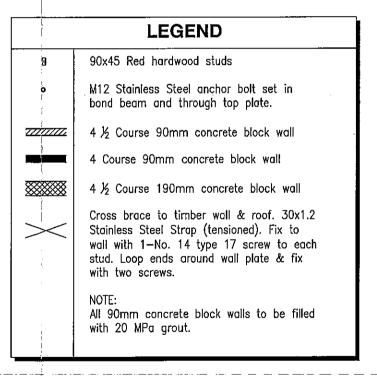
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Sheet A3 , Datum: A.H.D.

Revisions

Org signed by RMC 05/05

### **TOILET BLOCK FRAMING LEGEND MEMBER MARK** R1 125x50 F14 Rafters B1 100x50 F14 Beam P<sub>1</sub> 100x100 F14 Post. S<sub>1</sub> 45x90 Red Hardwood Studs TP1 35x90 Red Hardwood Top Plate X 2 BP1 45x90 Red Hardwood **Bottom Plate** RB<sub>1</sub> Roof Brace See legend below WB<sub>1</sub> Wall Brace See legend below





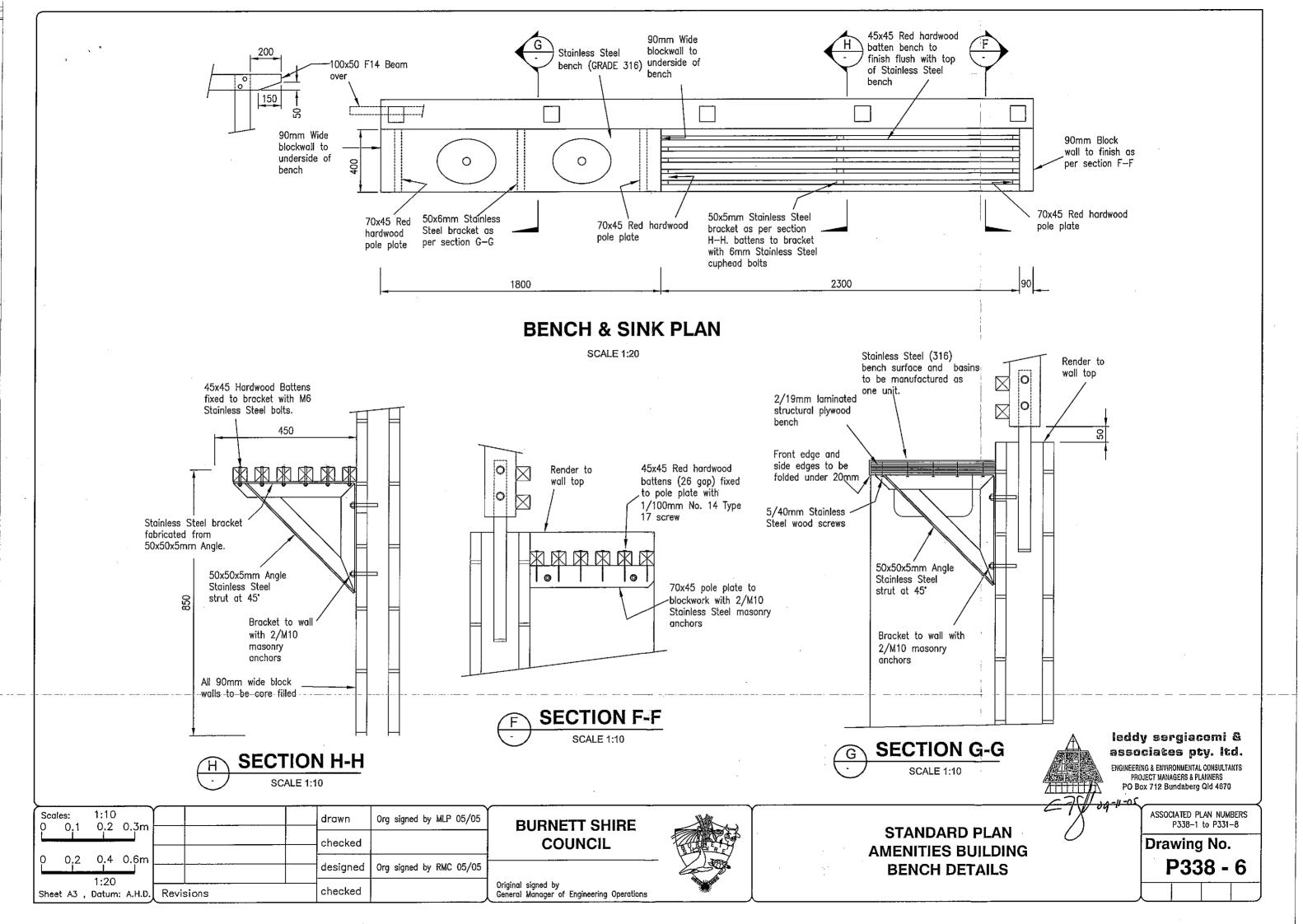
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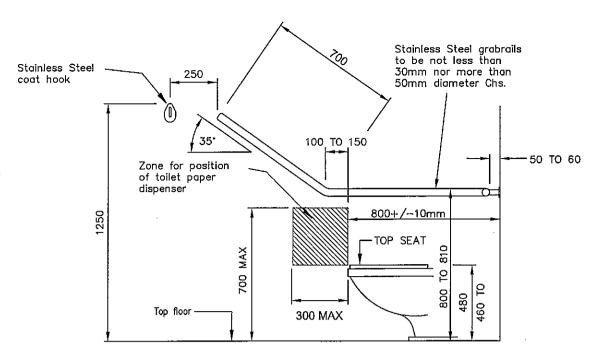
ENGINEERING & ENVIRONMENTAL CONSULTANTS
PROJECT MANAGERS & PLANNERS
PO Box 712 Bandaberg QId 4670

29-11-05

STANDARD PLAN AMENITIES BUILDING FRAMING PLAN ASSOCIATED PLAN NUMBERS P338-1 to P331-8

Drawing No. **P338 - 5** 





WC SIDE ELEVATION

GRAB RAIL Scale 1:20

### Plumbing fixtures and fittings

1. Wall basins Concorde 500, 1 Tap hole white with D200 brackets.

2. The clearance under the washbasins when fitted in the confines of the unisex cubicle must conform with AS1428.1—2001 Figure 23. Front of hand basin to be 770 to 800 to top of basin above finished floor level.

3. Tapware Ram Easyclean ceramic disc with lever handle.

4. Toilet suites Concorde care pan white. Concorde mid—level cistern with extended flush pipe. Paramount single flap toilet seat white.

5. Toilet roll holders will be supplied by Council and hung by builder. Holders to be fixed with 2/M10 stainless steel bolts that pass through 90mm concrete block wall.

6. Stainless steel (grade 316) benches and basins to be manufactured as one unit. Each basin to have 1 tap hole and 1 spout hole.

NOTE — Plumbing fixtures are as specified from Tradelink Plumbing Supplies. Fittings equal to those specified are required if another supplier is used.

### Concrete Work

- 1. Before placement of slab, builder to confer with project manager in relation to placement of any pipework or conduit for pump room.
- All concrete work is to be executed in accordance with the current edition of:
   AS 3600 SAA Concrete Structures Code.
   AS 1379 Ready Mixed Concrete.
- 3. Characteristic compressive strength of the concrete (F'c) must not be less than 32 MPa at 28 days U.N.O.

4. The maximum size of aggregate shall be 20mm.

5. The concrete shall slump test at not less than 25mm and not more than 100mm.

6. All concrete to be vibrated.

- 7. Plastic chairs to be used to support reinforcement and give the correct concrete cover.

  8. All top soil and upper strata containing organic matter is to be removed. Crusher
- 8. All top soil and upper strata containing organic matter is to be removed. Crusher dust pad to be placed and compacted to 95 M.M.D.D. in accordance with AS 1289 E 2.1.
  9. Area below slab to be treated in accordance with AS 3660 for termite protection.

10. Floor slab to fall as indicated on Drawing No. (P338-3).

- 11. WC CONCRETE FLOORS TO BE BROOM FINISHED WITH LIGHT NYLON BROOM.
- 12. Hand basin area/walkway slab to be light broom finished coloured concrete (CCS colour "Biscuit" mixed into concrete by concrete supplier).

### Structure

1. All external walls to be 190mm wide concrete blockwork. Blockwork to have rendered finish.

2. Roof sheeting to be Corrugated Zincalume for extreme environment (Metal Roofing Industries 'G8' or BHP 'XSE'). Sheeting to be fixed with screws to manufacturers specification.

NOTE: Extreme environment roofing may require an order lead time of approximately 3 weeks.

3. All flashings to be extreme environment standard (Metal Roofing Industries 'G8' or BHP 'XSE').

4. All fixings including nails, screws, bolts, nuts, washers, exposed anchor bolts and rods, grab

rails and framing anchors to be stainless steel. All stainless steel to be marine grade 316.

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associates pty. itd.

**ENGINEERING & ENVIRONMENTAL CONSULTANTS** 

PROJECT MANAGERS & PLANNERS PO Box 712 Bundaberg Qld 4670

Toilet roll holder

fixed with 2/m10

Strinless Steel bolts

passing through wall-

### Timber

- 1. All timber to be F14 unless noted otherwise on plans.
- 2. All timber to be treated to a minimum Level of H3.
- 3. All cuts, end grains and joins in timber MUST be primed before joining.

3. All timber to be belt sanded to remove splinters.

4. All timber to be arrised including all exposed end cuts.

- 5. Doors to be solid timber. All doors to have stainless steel indicator bolts. Self closing stainless steel hinges to be placed on doors (i.e., hold door in closed position when not in use).
- 6. Door jambs to be hardwood.

### Painting

<u>OR</u>

- 1. All external blockwork including seat base to have a light textured rendered finish and painted with 1 coat of sealer/undercoat and two top coats of gloss acrylic (Bristol colour "Golden Fleece").
- 2. Internal blockwork to be painted with 1 coat of sealer/undercoat and two top coats of gloss acrylic (Bristol colour "Ice Cap").
- 3. Rafters, purlins, posts, beam's, stud framing and batten screens to have either of the following timber treatments:
- \* wash all timber with "Intergrain Timber Restorer", prime timber with one saturation coat of "Intergrain Dimension 4" all round (including all cuts, end grains, etc.) and finish with three top coats of "Intergrain DWD".

\* wash all timber with "Woodmans Wood Wash", prime timber with one saturation coat of "Woodmans Prime—all" all round (including all cuts, end grains, etc.) and finish with three top coats of "Woodmans Decks".

4. Doors, seat timber and bench timber to have one coat of timber primer and two top coats of gloss acrylic (Bristol colour "Night Tide").

### WC FRONT ELEVATION

450 TO 460

GRAB RAIL Scale 1:20

### Drainage and Water Connection

Flushing control to be placed on centre—line of pan.

flushing control should be not

300

50

lower than 600 above floor

level or higher than 1100

above floor level

Stainless Steel

Grab rail

coat hook

50 TO 60

50 TO 60

1. All plumbing and drainage to comply with the Sewerage and Water Supply Act, Sewerage and Water Law, Australian Standards 3500 and council requirements.

2. No hot water will be supplied to amenities block.

### Electrical

- 1. Electrical work to carried out by council electrician (Ph. 0438 505587) .
- 2. Council electrician to be notified by builder prior to placement of slab so as to be aware of any required electrical conduit placement.

### Access and Mobility

- 1. All construction fixtures and fittings must comply with  $\ensuremath{\mathsf{AS1428.1}}\xspace-2001$
- 2. The door in—use indicator should be fitted between 900mm and 1100mm from the plane of the finnished floor (AS1428.1—2001 Clause 11.1.2(a). Door catches to be Hafele Indicator Bolt ILC Reference NO 81.56.009 or similar.

### Signs

1. The signage positioning for the left and right—hand unisex toilets should be in accordance with The Building Code Of Australia Part D3.6 paragraph 2.1(a)(i). Signs to be supplied by Council and hung by builder. Signs include: 2 x 'UNISEX'.
2. For supply of signs and toilet roll holders, contact Parks Supervisor, on Ph. 41505585 or Mob. 0414

### Scales: 1:10 0 · 0.1 · 0.2 · 0.3m drawn Org signed by MLP 05/05 checked designed Org signed by RMC 05/05 1:20 Sheet A3 , Datum: A.H.D. Revisions checked

### BURNETT SHIRE COUNCIL

General Manager of Engineering Operations

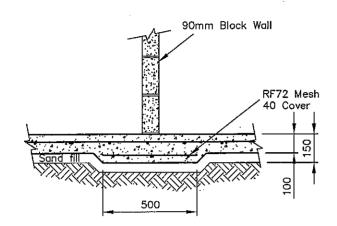


STANDARD PLAN
AMENITIES BUILDING
FIXTURES LAYOUT DETAILS

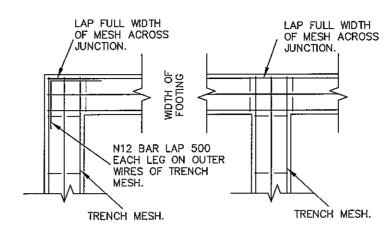
ASSOCIATED PLAN NUMBERS P338-1 to P331-8

Top floor

Drawing No. **P338 - 7** 

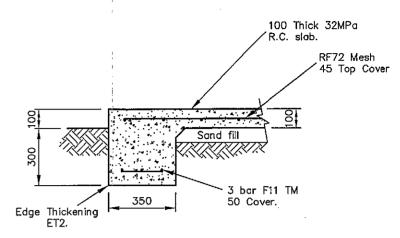


SLAB THICKENING - ST1
SCALE 1:20

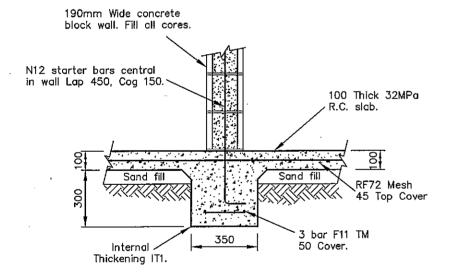


TYPICAL CORNER & T-JUNCTION DETAIL

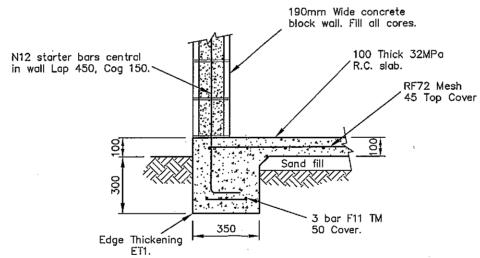
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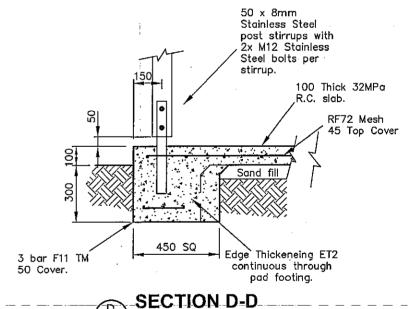












SCALE 1:20

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ENGINEERING & ENVIRONMENTAL CONSULTANTS Project Managers & Planners Po Box 712 Bundaberg Q1d 4870

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### BURNETT SHIRE COUNCIL

General Manager of Engineering Operations

Original signed by



AMENITIES BUILDING (
FOOTINGS PLAN
SITE CLASSIFICATION "S"

ASSOCIATED PLAN NUMBERS P338-1 to P331-8

Drawing No. **P338 - 8** 

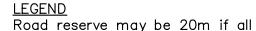
### BURNETT SHIRE COUNCIL STANDARD DRAWINGS

### **ROADS**

NUAL	
Number	Title /Topic
	Type Cross Sections
R101	Residential, Rural Residential and Split Level Roads.
R102	Rural Roads.
R103	Verge Profiles.
R104	Industrial Access Road and Commercial Laneway.
	Driveways
R111	Residential Slabs and Tracks.
R112	Commercial Slab - Two Way Access.
R113-1	Rural and Urban Accesses Requiring Culverts.
R113-2	Rural and Urban Accesses.
R114	Standard Details Invert Crossing.
	Floodways
R115	Flood Gauge Post
	Footpaths
R116	Concrete Strip Footpaths for Unstable Site (H) or Greater.
R116-1	Concrete Strip Footpaths Stable Site.
	Kerb and Channel
R121	Kerbs, Channels and Inverts - Profiles and Dimensions.
R122	Invert Crossing Layout Details For Kerb Types KC1 And KC2.
R124	Kerb Ramp.
	Public Utilities
R131	Typical Service Conduit Sections.
R152	Conduit / Service Road - Crossing Details

### ROADS (continued)

Number	Title /Topic
	Road Edge Guide Posts
R136	Road Edge Guide Posts Types And Spacings.
	Signs
R117	Location Plan of Rural Addressing Number Post
R141	Street Name Sign And Post.
R142	Sign Footings And Locations.
R143	Arrangement of Warning Signs At Detours.
R144	Bus Stop Sign Details.
R145	Arrangement of Warning Signs At Side Tracks.
R146	Arrangement of Warning Signs At Traffic Through Work Site.
R147	Arrangement of Warning Signs Where Roadworks Are In Centre Of Carriageway.
R148	Arrangement of Warning Signs Where Roadwork Is On Road Shoulder.
R149	Arrangement of Speed Limit Signs At Roadworks.
	Subsurface Drainage
R151	Side Drains, Mitre Drains And Seepage Drains Under Road Pavement.

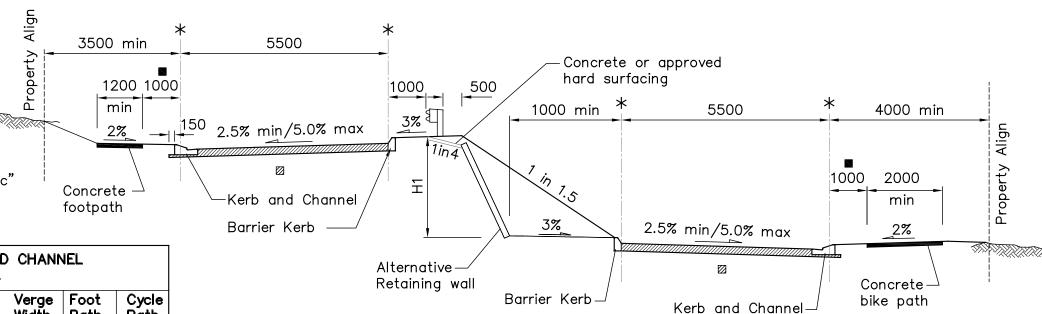


services can be accomodated.

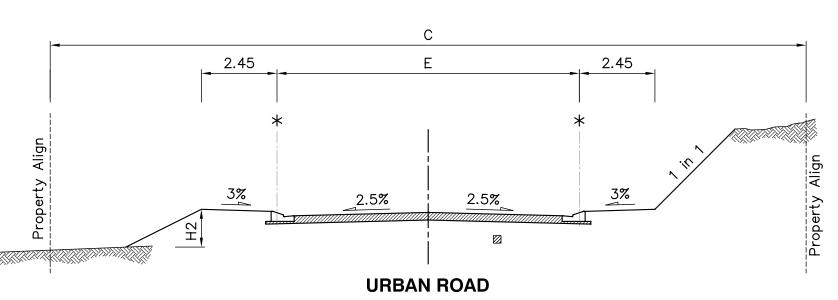
\* Nominal kerb line.

■ Unless otherwise specified.

Pavement design in accordance with "Austroads APRG-Rpt-21 A Guide to the Design of Pavements for Light Traffic"



### SPLIT LEVEL RESIDENTIAL STREET



WITH KERB AND CHANNEL. FOR RURAL RESIDENTIAL ROADS WITHOUT KERB AND CHANNEL, REFER STANDARD DRAWING NO. R102.

### URBAN RESIDENTIAL ROADS WITH KERB AND CHANNEL INCLUDING ON STREET PARKING. Access | Design | Nom. Daily Road Road Width Path Class Traffic |Control | Speed | Road Reserve Path Width E | Width C Min. Typical Min With Principal Off <6,000 Shire Yes 80 12 27 7.5 Bike Road Roads way With Trunk Off Collector Bike <6,000 Yes 60 12 25 6.0 Road Streets way Collector 25<sup>®</sup> <3,000 4.475 No 50 10.5 Yes Νo Street Access <1.000 Street No 50 9 20 5.5 Yes Nο Access Place <250 No 40 7 15 4.0 No Nο

### NOTES

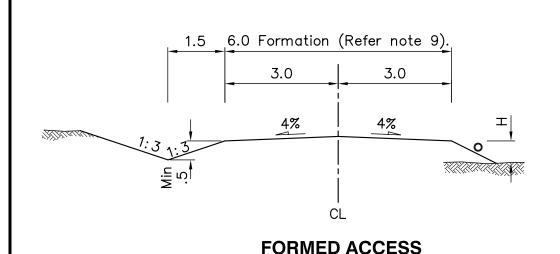
- 1. One access point to be constructed to each lot at a maximum grade of 1 in 6 See R111 for details.
- 2. Where H2 is less than 0.5 the batter slope (S) is to be 1 in 4 max. Where H2 is greater than or equal to 0.5 the batter slope (S) is to be 1 in 2 max.
- 3. Extra earthworks may be advisable at driveways to provide better visibility.
- 4. All dimensions are in metres.
- 5. An approved guardrail shall be installed when H1 (top of kerb to top of kerb) exceeds 1.5m.
- 6. Carriage way widths may be altered if off road parking is provided.

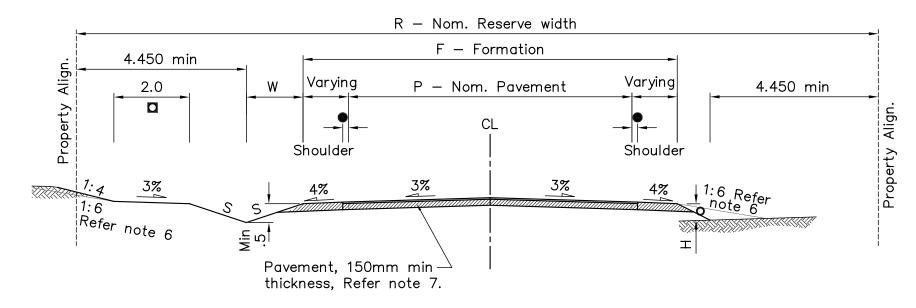
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### BURNETT SHIRE COUNCIL

Original signed by General Manager of Engineering Operations TYPE CROSS SECTIONS
URBAN ROADS
AND SPLIT LEVEL ROADS

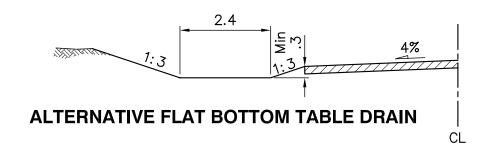
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### RURAL ACCESS/CONNECTOR/PRINCIPAL ROAD

Road Classification	Nominal A.A.D.T.	Design Speed	Р	F	R	W Width	S Slope
Access	_	_	Gravel	6	15	1.5	1 in 3
Access Road	50-250	80	6.1	8.1	25 ■	1.5	1 in 3
Connector Road	250-750	100	7.1	8.1	25 ■	2.0	1 in 4
Principal Road	>750	100	9	9	30	2.0	1 in 4



### **LEGEND**

- 150mm min pavement overlap.
- Where H is smaller than 0.5m batter is to slope 1 in 6. Where H is greater than or equal to 0.5m batter is to slope 1 in 3.
- Road reserve may be 20m if all services can be accommodated.
- Berm for services where specified.
- Pavement design in accordance with
   "Austroads APRG−Rpt−21 A Guide to
   the Design of Pavements for Light Traffic"

### **NOTES**

- 1 Table drains steeper than 5% (1:20) should have erosion protection measures installed.
- 2. Cut batter slopes may be varied on site to ensure long term stability of batters.
- 3. Minimum logitudinal slope of table drain inverts shall be 0.3% (1 in 333).
- 4. Floodways shall be constructed with cross road drainage as per contract documents.
- 5. Unsealed roads shall be designed using parameters set out in AUSTROADS "Unsealed 6. Roads Manual" unless noted otherwise in project drawings. One access point to be constructed to each lot in accordance with
- 7. Standard Drawings R113—1 & R113—2. For pavement design requirements refer project drawings.
- 8. All dimensions are in metres unless shown otherwise. 8. Final dimensions for formed access road to be determined by Councils Engineer
- 10. Table drain may be varied from "V" drains to flat bottom with min width of 2.4m & side slopes of 1 in 3 as directed by Councils Engoneer..

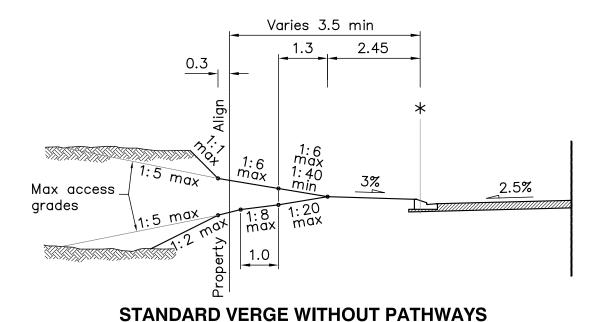
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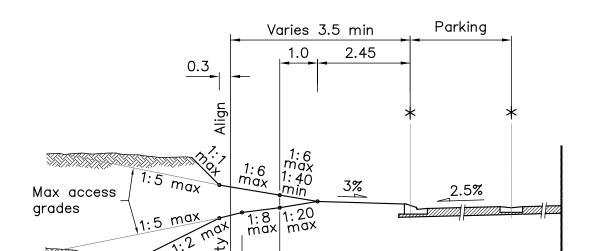
### BURNETT SHIRE COUNCIL

Original signed by General Manager of Engineering Operations



Drawing No.
R102
A B





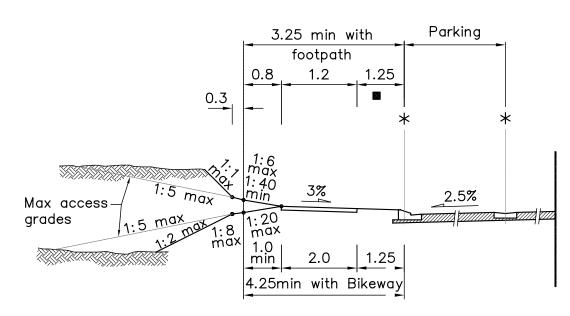
**VERGE AT PARKING BAYS** 

1.0

### **LEGEND**

- Nominal kerb line.
- Unless otherwise specified.

NOTE
1. All dimensions in metres.



**VERGE WITH PARKING BAYS AND PATHWAYS** 

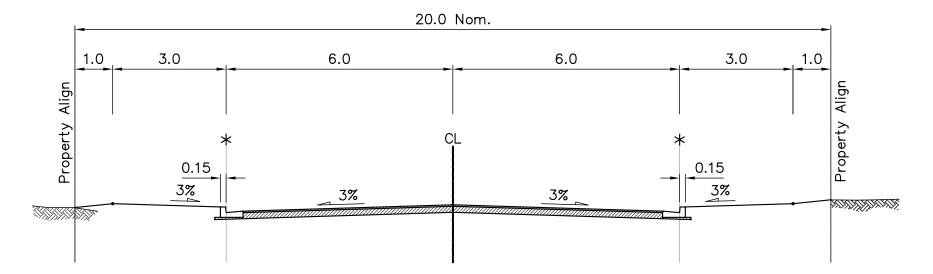
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0 1 2 3m	В	Revision to details	MLP 3/05	checked	org orginal by bbi coyec
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Sheet A3 , Datum: A.H.D. Revisions			checked		

### **BURNETT SHIRE** COUNCIL

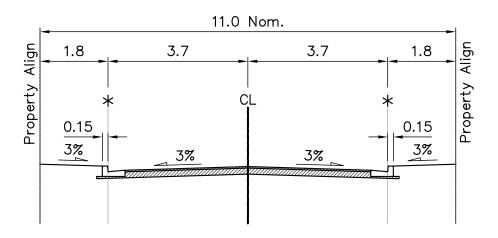
Original signed by General Manager of Engineering Operations

**TYPE CROSS SECTIONS VERGE PROFILES** 

Drawing No. **R103** В



### **INDUSTRIAL ACCESS ROAD**



### **COMMERCIAL SERVICE LANEWAY**

### **LEGEND**

\* Nominal kerb line.

### **NOTES**

- 1. For pavement design requirements refer project drawings.
- 2. All dimensions are in metres.

Scales: 1 : 100	Α	Revision to details	MLP 8/04	drawn	Org signed by BDF 05/98
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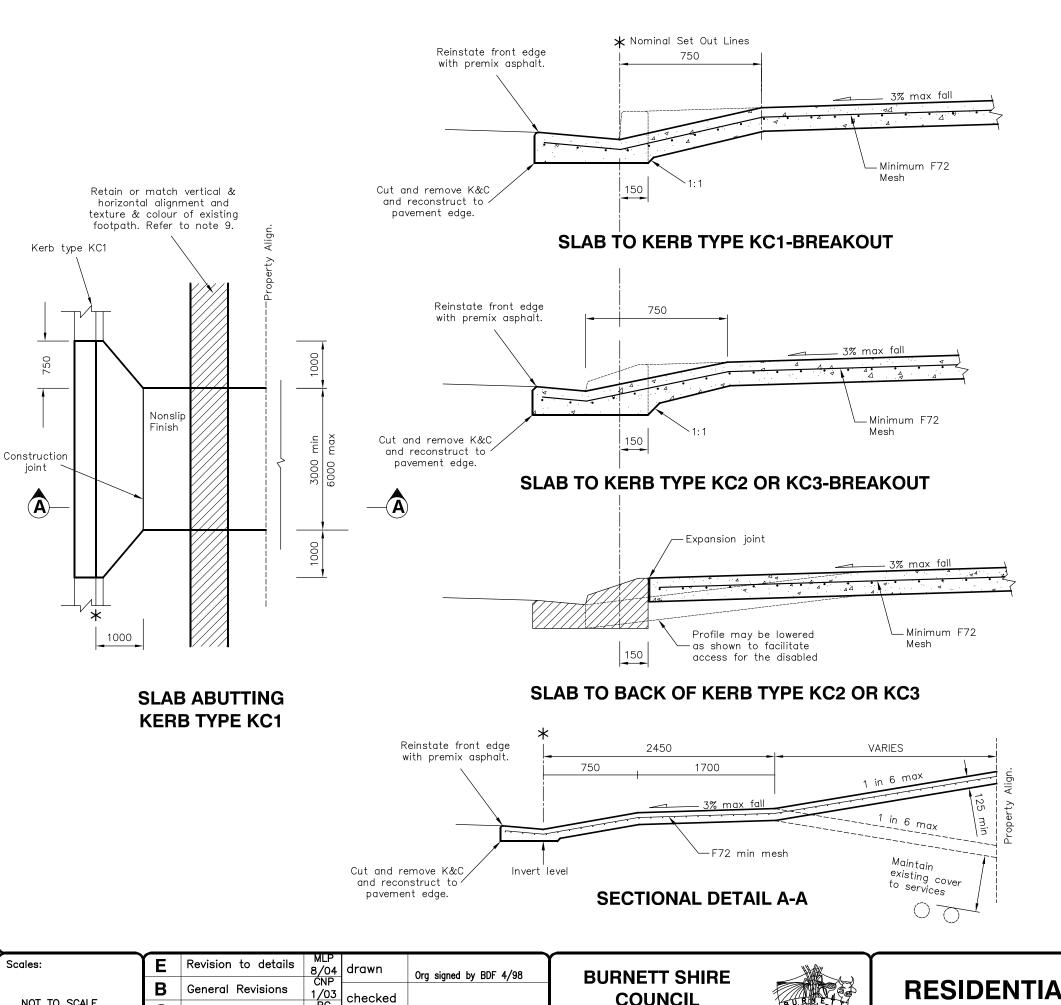
BURNETT SHIRE COUNCIL

Original signed by General Manager of Engineering Operations



TYPE CROSS SECTIONS
INDUSTRIAL ACCESS ROAD AND
COMMERCIAL LANEWAY

	Drawing No.					
		R1	04			
J	Α	В		_		



### LEGEND

\* Nominal kerb line.

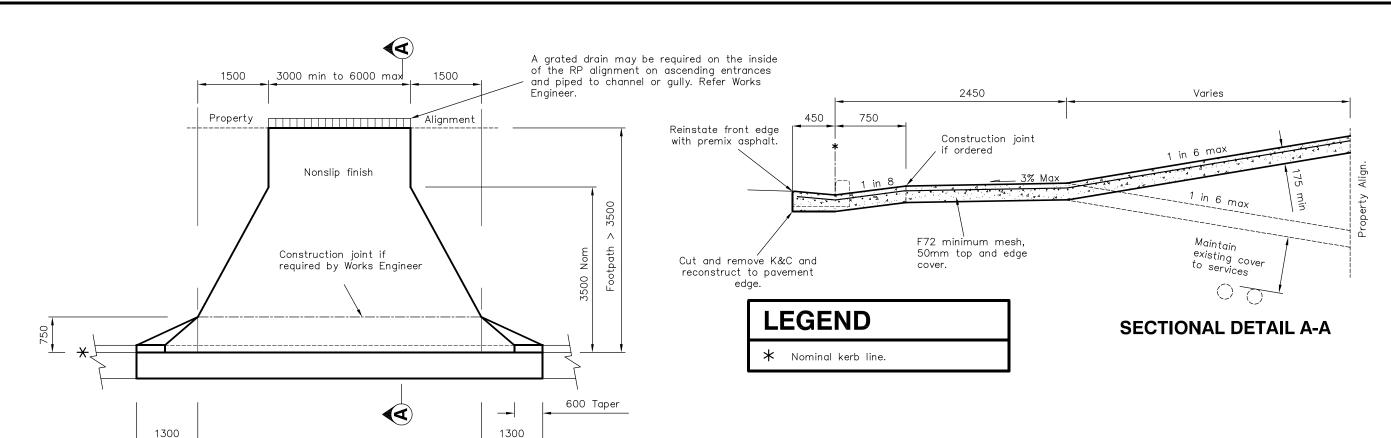
### NOTES

- 1. Crossings are not designed for commercial vehicles.
- 2. Footpath section to vary where necessary to match concrete footpaths and verge profiles. Footpath earthworks adjoining concrete must be well compacted.
- 3. Concrete surface tolerance to be  $^{+5\text{mm}}_{-0\text{mm}}$  over 3 metre sections.
- 4. Concrete N25 in accordance with AS 1379 and AS 3600.
- 5. Reinforcement mesh to AS 1304, 50 top and and edge cover. Lap mesh 250.
- 6. Expansion joints to be 10 thick, full depth closed cell cross linked polyethelene foam (85 150 kg/m3).
- 7. All dimensions in millimetres.
- 8. Driveways to have a construction joint at property boundary.
- 9. Council will not guarantee reinstatement on non—standard concrete finishes if council need to access infrastructure under driveway (eg. pipes, etc) or provide concrete footpath across driveway.
- 10. Should concrete footpaths exist or be required in the area, then the the concrete footpath will be continuos through the proposed driveway access. Construction to conform to other details shown on this plan & AS1428.1—2001
- 11. For driveway work in sandy areas. Council may permit the existing kerb & channel be saw cut at the invert or nominal kerb line and removal of the kerb.
- 12. Refer BSC R114 for Standard plan details.

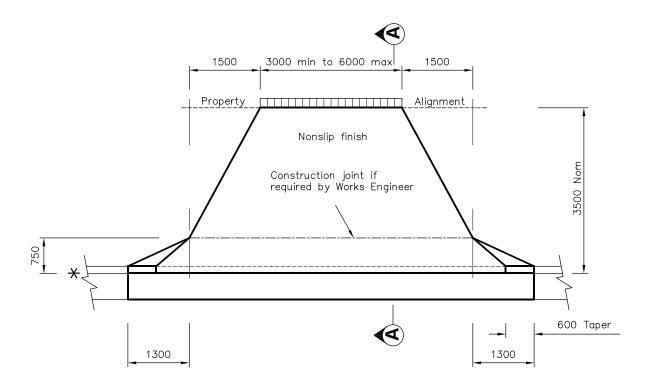
### RESIDENTIAL DRIVEWAY SLABS

Drawing No.
R111
E B C

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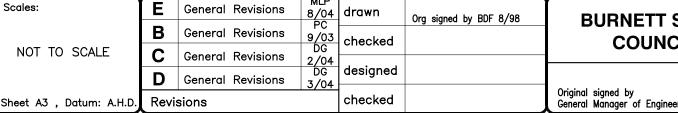


## **PLAN - WIDE VERGE**



**PLAN - 3.5m WIDE VERGE** 

- 1. Concrete N32 in accordance with AS1379 and AS3600.
- 2. Reinforcing mesh to AS1304. Lap mesh 250mm.
- 3. Depths of concrete and reinforcing steel shown are the minimum requirements for good foundation conditions, and average traffic loading. Where this does not apply, depths of concrete and reinforcing shall be increased to suit specific conditions.
- 4. Design of crossings may vary with the approval of Council. Refer project drawings.
- 5. Reprofile adjacent footpath to match driveway. Footpath earthworks adjoining concrete must be well compacted.
- 6. Existing footpath profile to be maintained where possible.
- 7. Compaction for subgrade 95% standard to AS1289.5.1.1.
- 8. Where subgrade is less than CBR 5, excavate and provide imported material to the satisfaction of the Works
- 9. Driveway to be concrete with a construction joint at the property boundary unless otherwise approved.
- 10. All dimensions in millimetres.
- 11. Council will not guarantee reinstatement on non-standard concrete finishes if council need to access infrastructure under driveway(eg. pipes, etc) or provide concrete footpath across driveway.
- 12. Should concrete footpaths exist or be required in the area, then the concrete footpath will be continous through the proposed driveway access. Construction to conform to other details shown on this plan & AS1428.1-2001.



# **BURNETT SHIRE** COUNCIL

General Manager of Engineering Operations



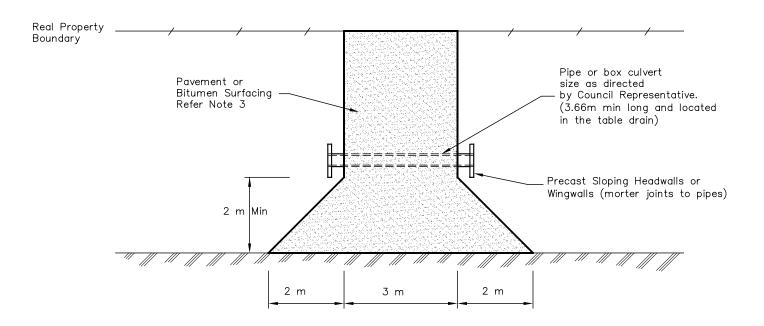
# INDUSTRIAL AND COMMERCIAL **DRIVEWAY SLAB** TWO WAY ACCESS

Drawing No. **R112** C В

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- 1. The Council Representative shall be notified before work commences to grant permission to perform works on the road reserve.
- 2. The pipe or box culvert size under the access shall be fixed by a Council Representative. If the table drain is too shallow for a culvert, a concrete invert maybe required (see R113-2).
- 3. The contractor should determine the depth of pavement to suit work area after excavation. However the minimum depth of pavement is to be 150mm of CBR 60. Should Bitumen sealing be required, it shall be a two coat hot or cold seal with 16mm & 10mm aggregate to Council standards.
- 4. For Traffic control and safety, the minimum requirements from the Manual of Uniform Traffic Control Devices (MUTCD) must be in place before work commences.
- 5. No point of the completed access shall be no higher then edge of bitumen road less 50mm.
- 6. Rural pipe crossings shall have precast endwalls or 'Sloping' type headwalls for single/mulitiple pipes where directed. Where precast headwalls are not available, use wingwalls cast in situ as per Main Roads drawings 1304, 1305 & 1306.
- 7. Urban pipe crossings shall have precast headwalls with wings (or equal to CSR Humes Headwalls) for single/multiple pipes or a cast in situ endwall as per Main Roads drawings 1304, 1305 & 1306.
- 8. Council may however direct the use of sloping headwalls if required in lieu of the above rural/urban pipe crossing headwall.

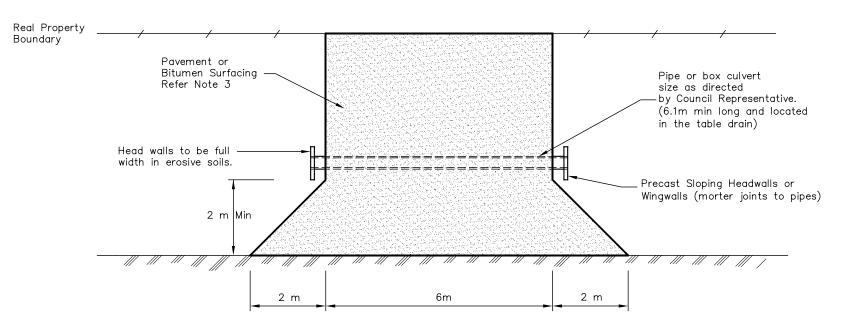
PROPERTY	RECOMMENDED SIZE	AUTHORISED



# **EXISTING ROAD**



## **TYPE A - SINGLE ACCESS WITH CULVERT**



## **EXISTING ROAD**

## TYPE B - DOUBLE ACCESS WITH CULVERT

Scales:

Sheet A3

NOT TO SCALE

A General Revisions CNP 1/03 drawn Org signed by BDF 4/98

B General Revisions S/04 Checked

C General Revisions MLP 8/04

Revisions checked

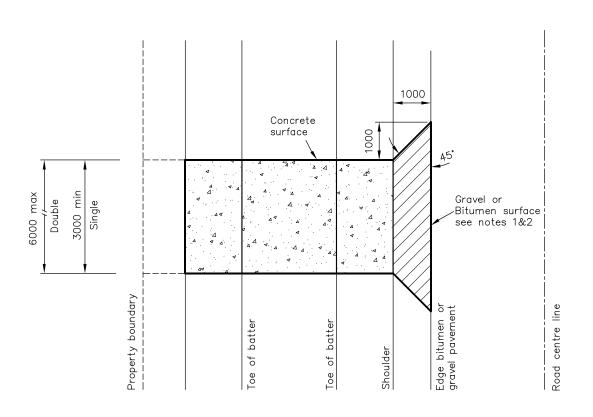
# BURNETT SHIRE COUNCIL

Original signed by General Manager of Engineering Operations



RURAL AND URBAN ACCESSES
REQUIRING CULVERTS
NO KERB AND CHANNEL

Drawing No.
R113-1
A B C

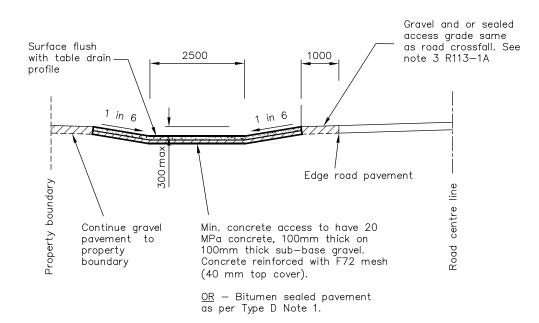


# Property boundary Single Single Single Figure bilding Edge bilding For eartre line

## PLAN VIEW TYPE C - ACROSS TABLE DRAIN

## Type C - Notes:

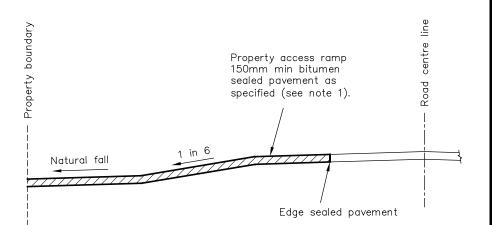
- 1. Subgrade preparation as per roadworks specification. The contractor should determine the depth of pavement to suit work area after excavation. However the minimum depth of pavement is to be 150mm of CBR 60.
- 2.Broom finish to concrete surface.
- 3. Finished concrete (or gravel) surface to be flush with table drain profile.



# **TYPICAL SECTION - TYPE C**

# Type D - Notes:

- 1. The contractor should determine the depth of pavement to suit work area after excavation. However the minimum depth of pavement is to be 150mm of CBR 60. Bitumen sealing shall be a two coat hot or cold seal with 16mm & 10mm aggregate to Council standards.
- 2. Bitumen seal required as access off existing bitumen roads.
- 3. Match & shape to existing batters over Min 5 meters.
- 4. For Traffic control and safety, the minimum requirements from the Manual of Uniform Traffic Control Devices (MUTCD) must be in place before work commences.



PLAN VIEW TYPE D - FALLING FROM ROAD EDGE

# **TYPICAL SECTION - TYPE D**

Scales:	Α	Amended	7-01	drawn	Org signed by BDF 2/99
	В	General Revisions	CNP 1/03	checked	Org signed by bbi 2/99
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# BURNETT SHIRE COUNCIL

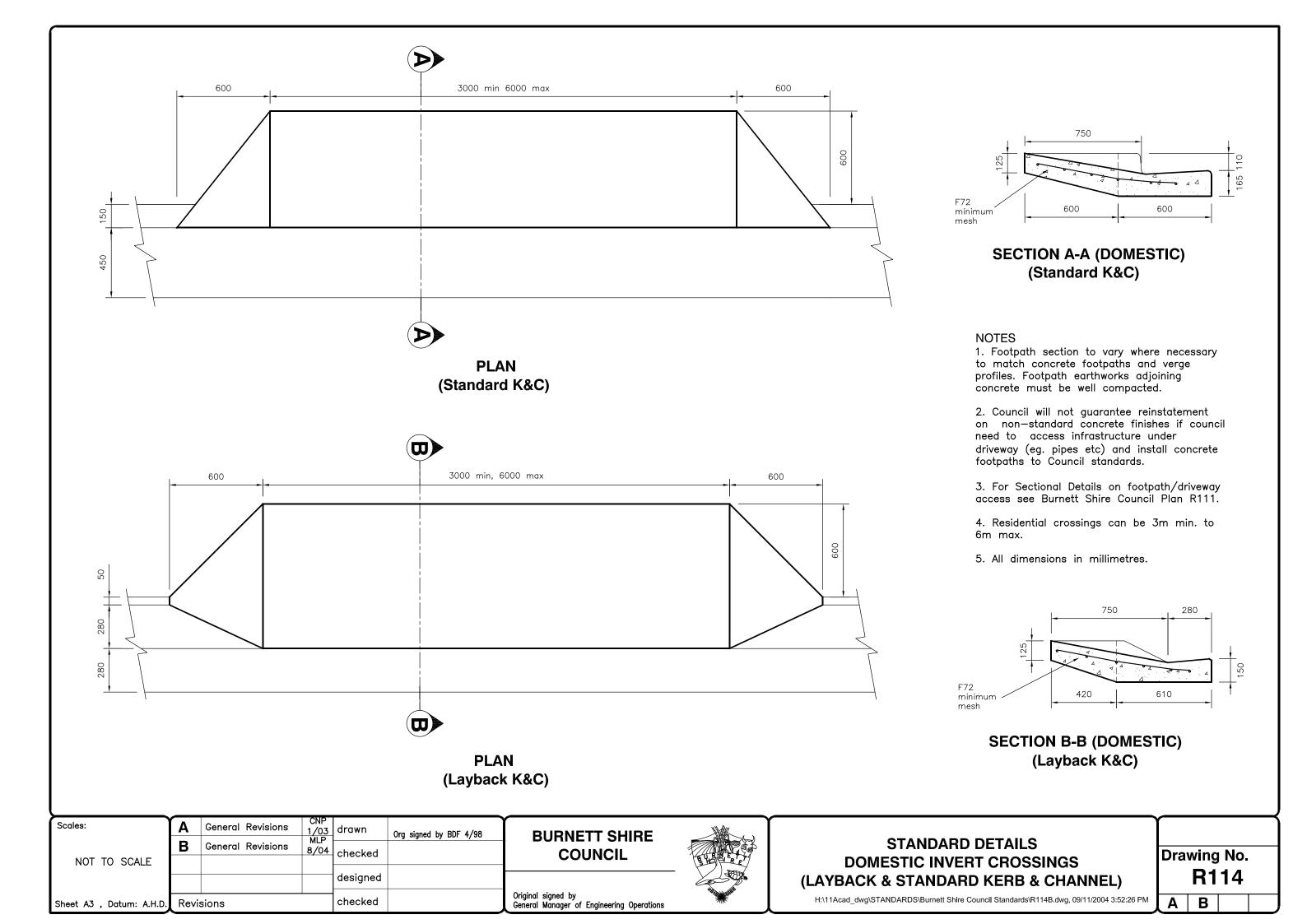
Original signed by General Manager of Engineering Operations

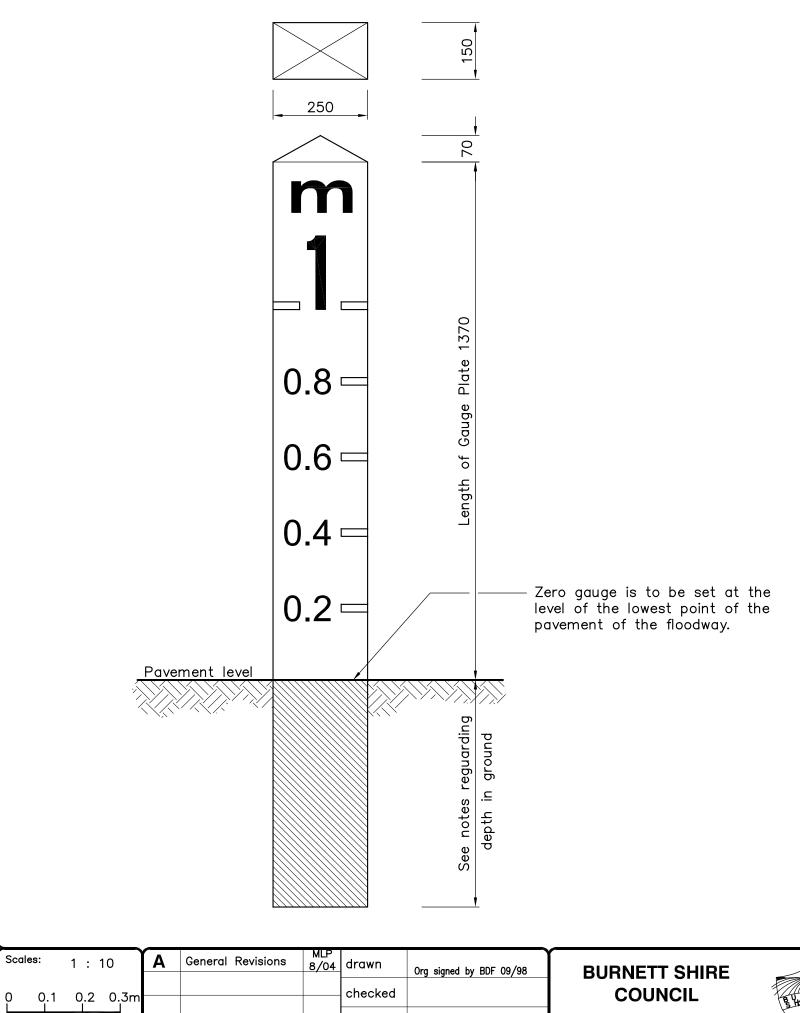


# RURAL AND URBAN ACCESSES NO KERB AND CHANNEL

Drawing No.
R113-2

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- 1. Flood Gauge Posts are to be erected adjacent to the upstream shoulder of the road at the stations specified or as directed by the Works Engineer.
- 2. The posts shall be timber, as specified, to each of which is attatched two standard "depth indicator" plates, one on each side.
- 3. The post shall be erected vertical, with the broad face at right angles to the road centre line, and sunk firmly not less than 600mm into solid original ground.
- 4. When 2m high gauge plates are to be attatched, the post shall be 1m longer above the zero point and sunk firmly not less than 1m into solid ground.
- 5. The post shall be treated "H5" and painted in the manner specified. Each gauge plate is to be secured to the broad face with 6. not less than 12/40mm x 2.8mm Dia galvanised

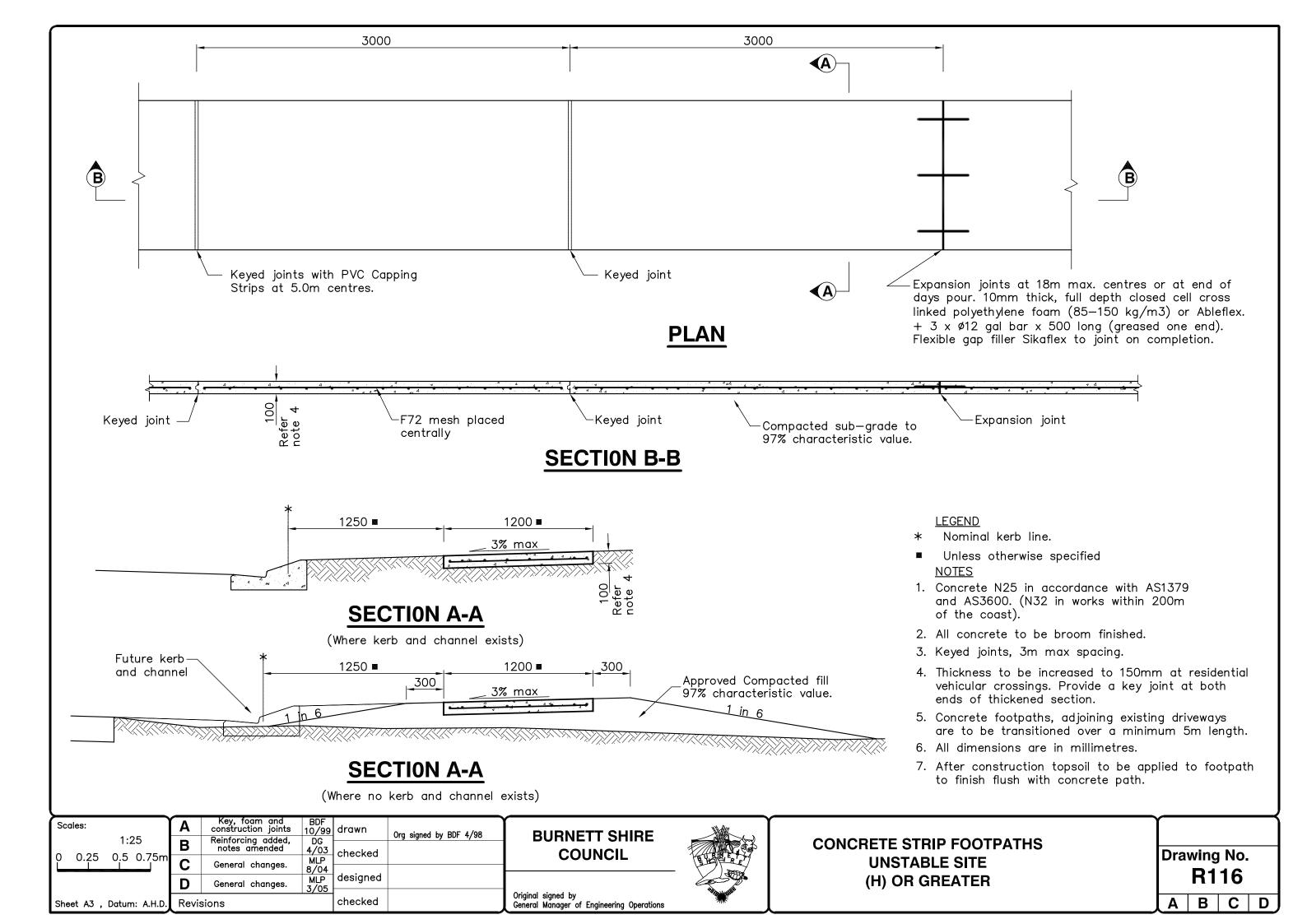
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0 0.1	0.2 0.3m				checked	
					designed	
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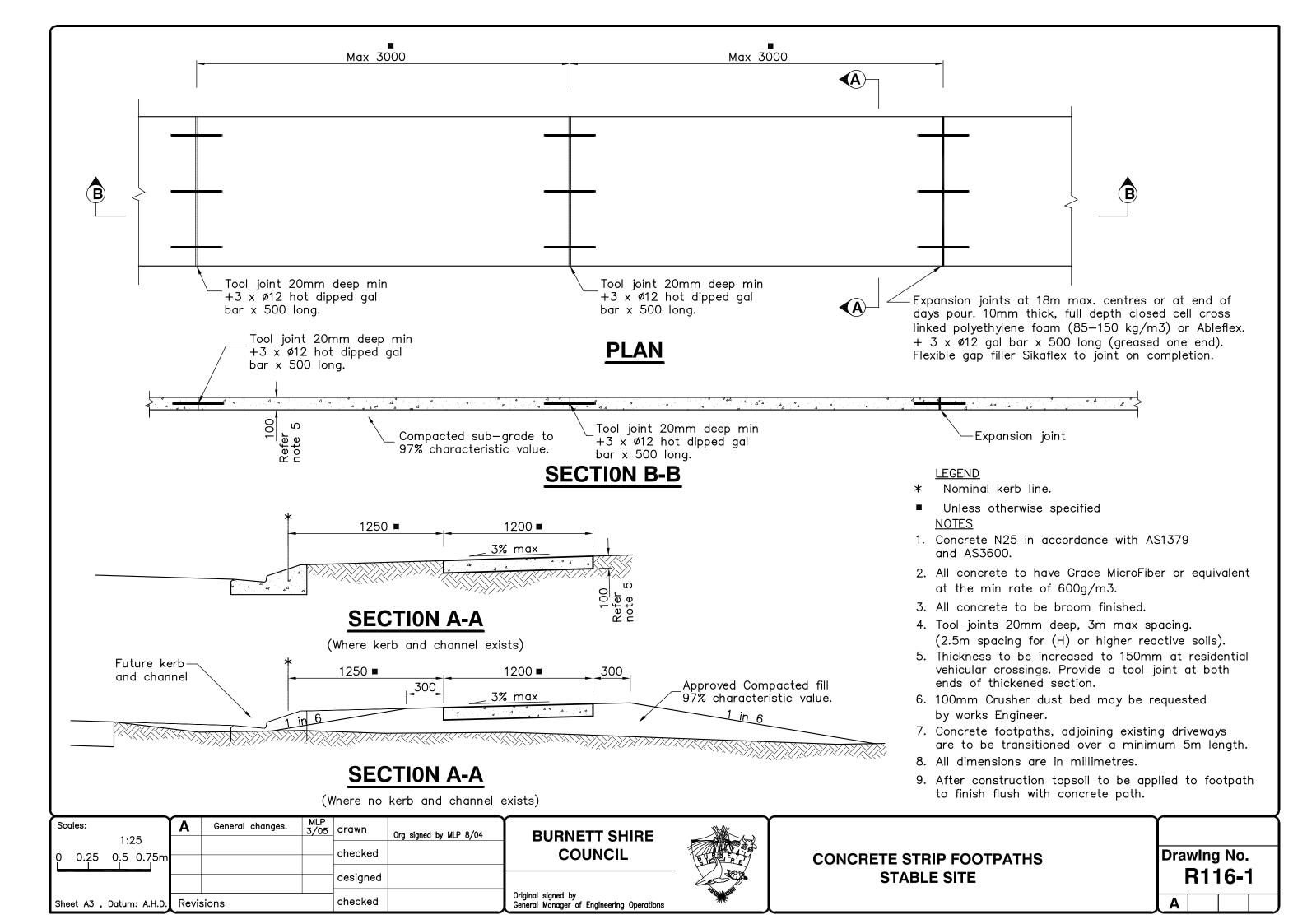


Original signed by General Manager of Engineering Operations

**FLOOD GUIDE POST** 

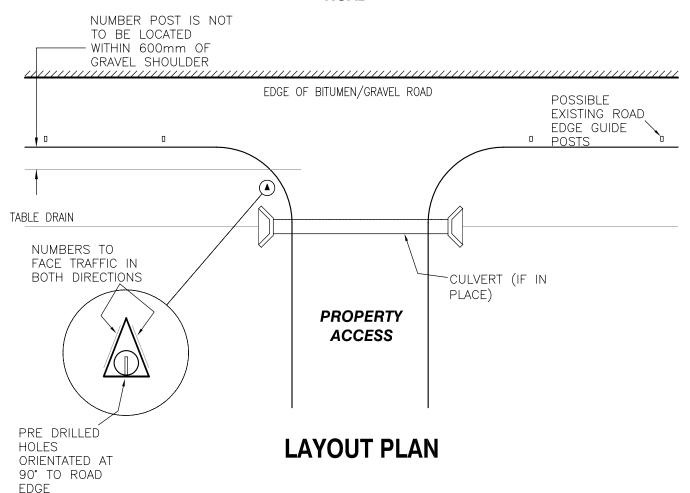
Drawing No. R115





EDGE OF BITUMEN/GRAVEL ROAD

## ROAD



## LOCATION

- 1. The number post shall be placed at the property access point.
- 2. If possible, number posts should be placed between 1 and 2 metres outside the edge of the road shoulder or line of guide posts.
- 3. Number posts should be placed at least 1 metre above ground for maximum visibilty.
- 4. Consideration should be given to positioning of the post so it does not interfere with slasher mowing, maintenance of drains and culverts and vehicles using the access.
- 5. Align the number so it is clearly visible for traffic travelling along the road.
- 6. Posts are commonly placed adjacent to the property's letter box.

## INSTALLATION

- 1. The rural address post comes as a round galvanized post, a plastic number module and stick on numbers.
- 2. To install, drive the galvanized post into the ground until it is firm. ensure that pre drilled hole in the post faces the property and is square to the road.

**WARNING** — Check that there are no underground services in the area before installing the post.

3. Once post is installed place plastic module over the post and fix with the self tapping screw provided.

Scales:				drawn	Org signed by BDF 02/01
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# BURNETT SHIRE COUNCIL

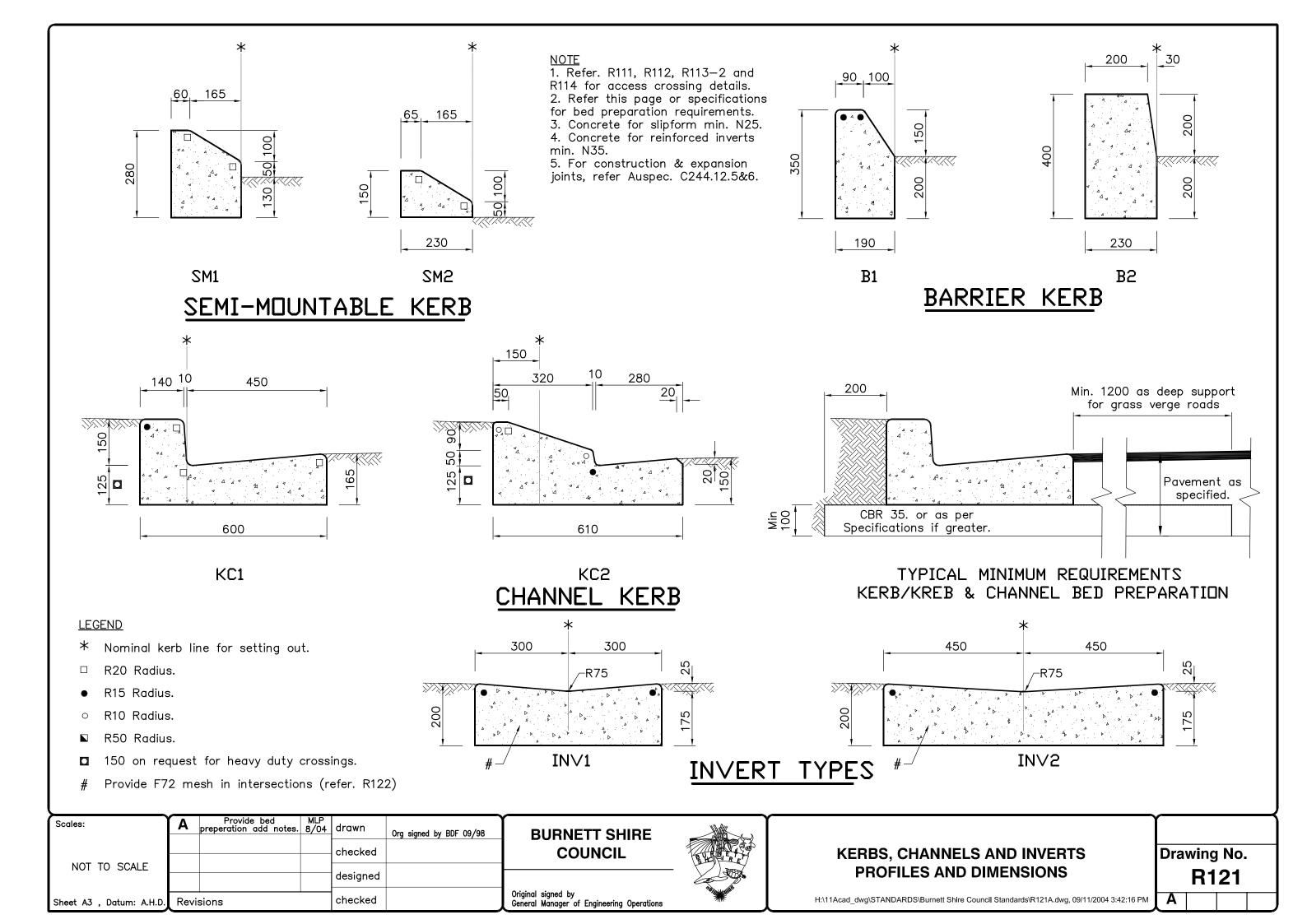
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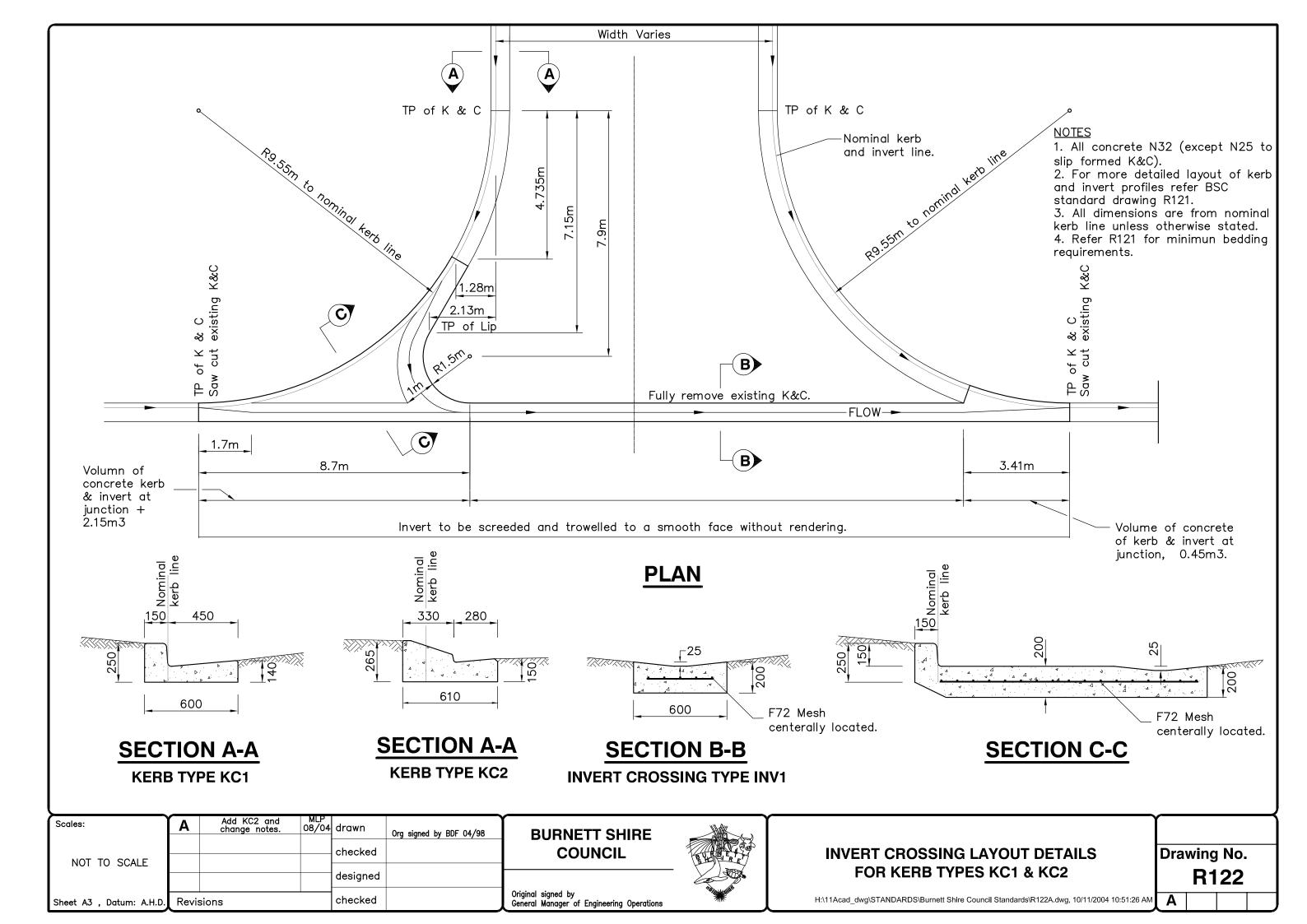


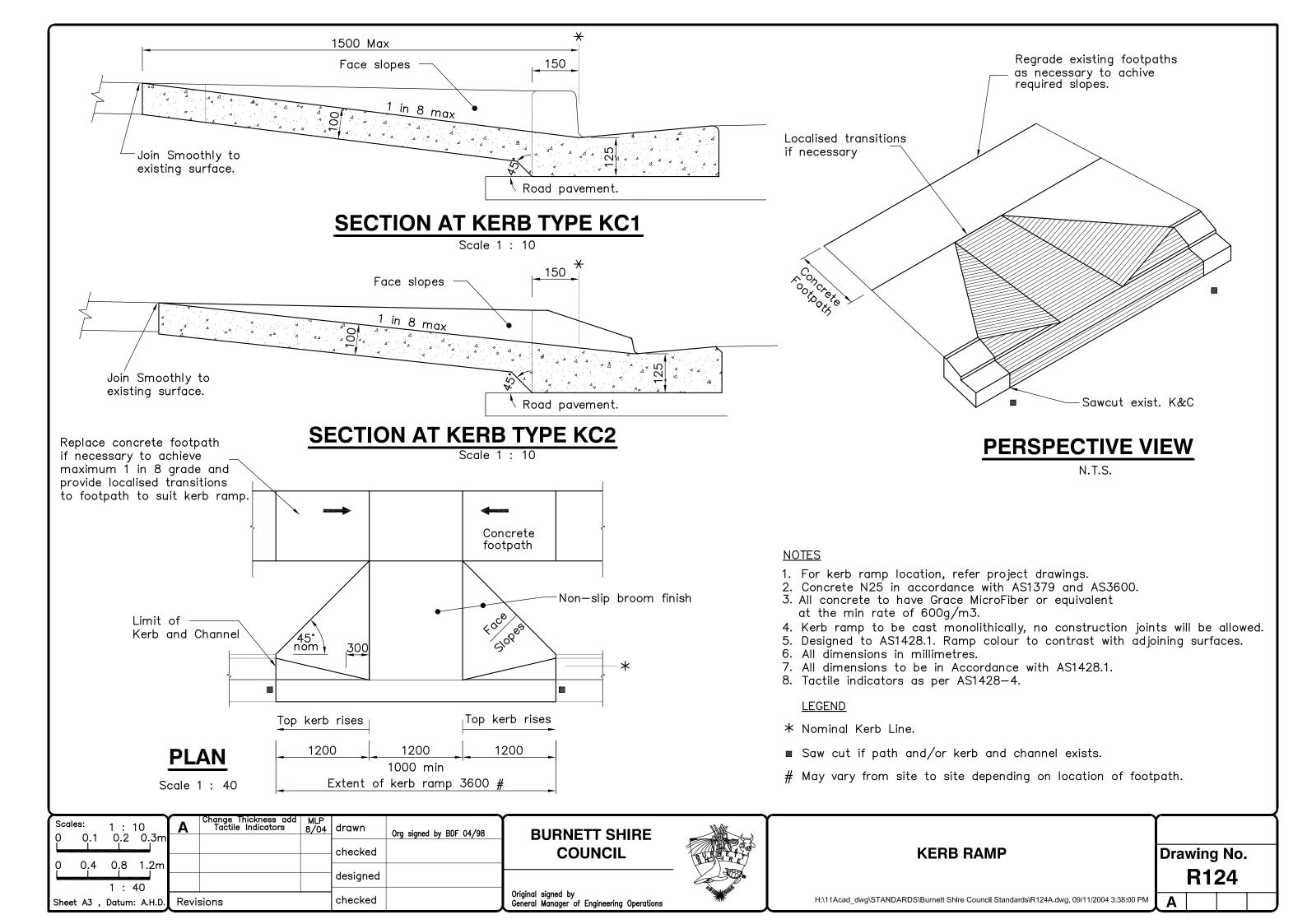
# LOCATION PLAN OF RURAL ADDRESSING NUMBER POST

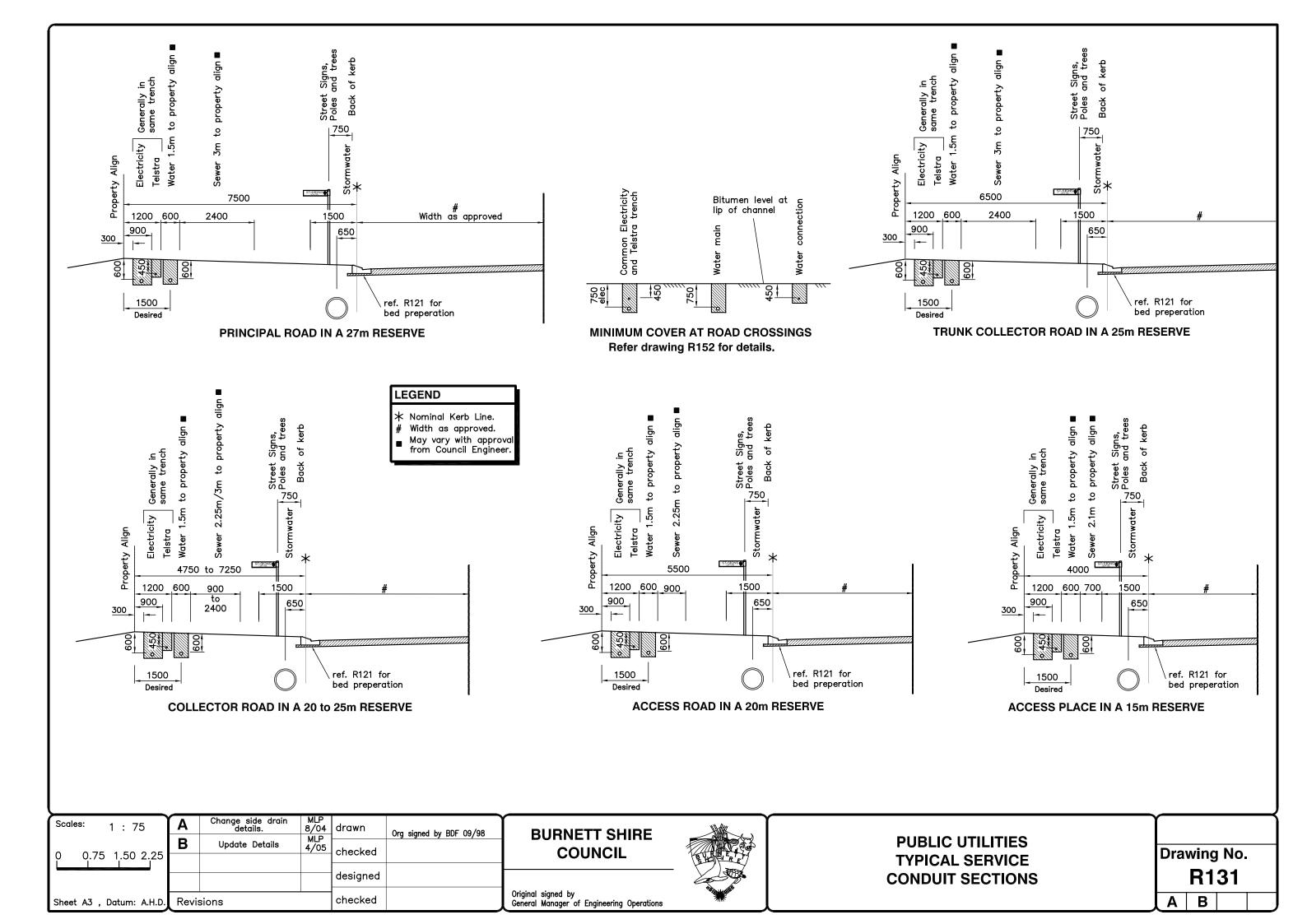
Drawing No. **R117** 

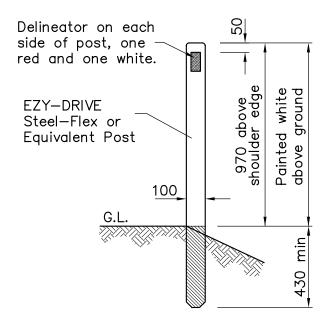
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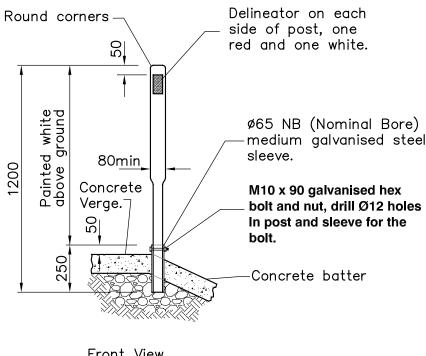




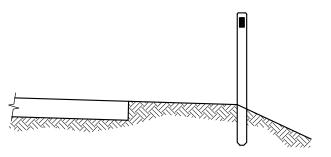




# STEEL-FLEX GUIDE POST N.T.S.





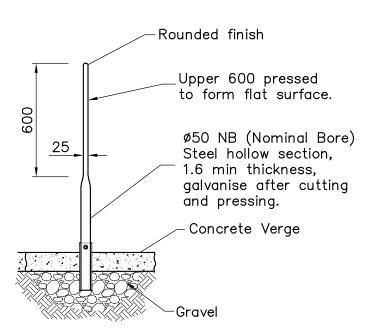


## ROADWAY GENERALLY:

- 1. Inside face of post to be set in line with the shoulder edge.
- 2. The distance from the pavement edge should be uniform.
- 3. Posts should be set so that their tops are on a smooth grade.

# **INSTALLATION DETAILS**

N.T.S.



Side View

CONCRETE VERGE/BATTER

# **TUBULAR STEEL GUIDE POST**

N.T.S.

# Scales: A Now Steel-Flex Guide Posts | MLP 8/04 | drawn Org signed by BDF 04/98 | checked | designed | Sheet A3 , Datum: A.H.D. Revisions | Checked | Chec

# BURNETT SHIRE COUNCIL

Original signed by General Manager of Engineering Operations



## NOTES

- 1. Guide posts other than those shown to be approved by works engineer before use. Guide posts to be installed to manufacturers specifications.
- 2. Delineators shall be the following reflectorised panels with the longer axis vertical in each case. Red delineators (100 x 50mm) shall be on the left hand side and white delineators (100 x 25mm) on the right hand side as seen by approaching drivers. Complying with Class 1A Material AS/NZS 1906.1.
- 3. <u>POST SPACING</u>: Where the location of road edge guide posts is not specified in the project drawings, then the spacing shall be in accordance with MUTCD 3.2.4.4.

## GENERAL MUTCD NOTES

- A. <u>STRAIGHTS AND CURVES</u>: with a radius greater than 2000m shall have spacing of 150m with the posts in pairs.
- B. <u>VERY LONG STRAIGHTS</u>: on flat terrain may have spacing increased, where specified to 300m with the posts in pairs.
- C. <u>CIRCULAR CURVES</u>: including circular portions of transitioned curves shall have spacing in accordance with Table 1.
- D. <u>CURVE TRANSITIONS:</u> Spacing for the transition portion shall be the same as the spacing required for the circular portion of the curve (Refer Table 1.). The first posts shall be located at a point along the transition portion, which is one quarter of the transitional length, as measured from the tangent point at the straight. Where alignment plans are not supplied in the project documents, the first posts shall be located at the point where the curve just noticeably starts to deviate from the alignment of the straight.
- E. <u>CRESTS</u>: (i) Located on straights, two pairs of delineators, minimum, are to be visible (beyond 40m) at all times for a driver's hight of 1.15m.
- (ii) Located on or just before a horizontal curve, this only applies to the outside of the curve. Note 2C also apply.
- F. <u>AREAS SUBJECT TO FREQUENT FOGS</u>: Spacing shall be reduced to 60m with posts in pairs.
- G. <u>BRIDGES AND CULVERTS</u>: (i) Where the structure is greater than or equal to 5m in length as measured along the road centreline, four posts, one at each corner of the structure. (ii) Where the structure is less than 5m, two posts, one at each left hand approach.
- H. FLOODWAYS: Tubular steel posts spaced at 25m in pairs.
- I. <u>DELINEATORS</u>: ON GUARDRAILS are to be installed when road edge guide post locations fall adjacent to guardrail location. They are to be attached using guardrail delineator brackets.

## \* Refer GENERAL MUTCD NOTES (F).

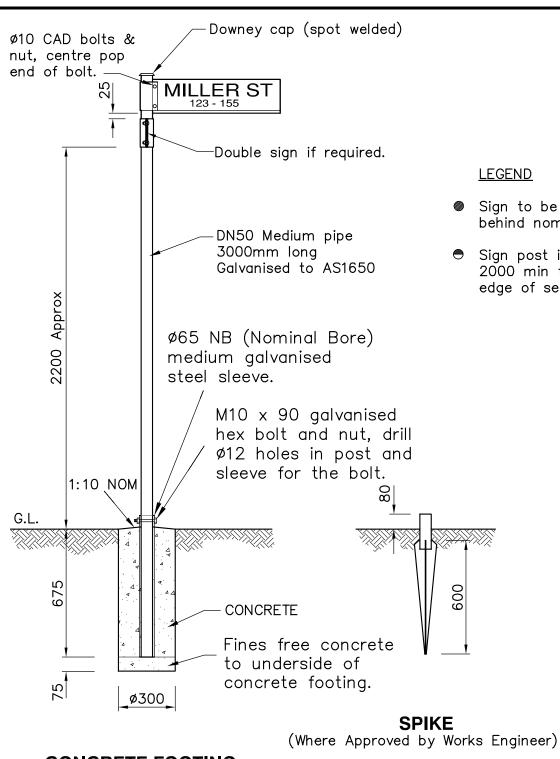
	Spacing (m)			
Curve Radius (m)	outside of curve	inside of curve		
< 100	6	12		
100-199	10	20		
200-299	15	30		
300-399	20	40		
400-599	30	60		
600-799	40	60		
800-1199	60	60		
1200-2000	90 🛪	90*		
> Including straights	150 *	150 <sub>*</sub>		

<u>TABLE 1</u>: GUIDE POST SPACING ON CURVES Posts on inside of curve are to be located opposite a post on the outside of the curve where possible.

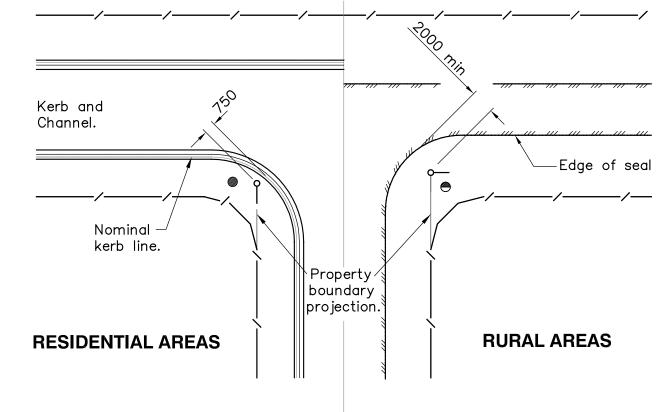
# ROAD EDGE GUIDE POSTS TYPES AND SPACINGS

Drawing No. R136

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- Sign to be located 750mm behind nominal kerb line.
- Sign post is to be located 2000 min to 4000 max from edge of seal.



# **SIGN LOCATIONS**

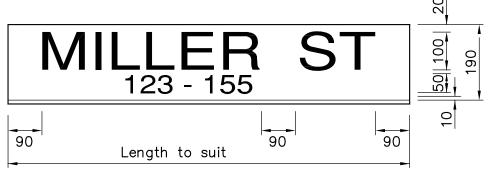
## NOTES:

- 1. Street names must be approved by Council.
- 2. Name Plates: Anti-vandal section, 200mm wide and 3mm thick extruded aluminium or polypropylene section.
- \* (Paid for by Developer & Installed by Council).
- 3. Bracket: Standard 200mm wide and 3mm thick extruded aluminium (including 2 x Ø6 CAD bolts and nuts). CAD bolts and nuts to AS 1897.
- \* (Paid for by Developer & Installed by Council).
- 4. Letters and Numbers: All lettering to be Freeway Green, Reflective Class 2. Background to be White Relective Class 1. Letters to be 100mm high, Series B, medium spacing. Numbers to be 50mm high, Series C, narrow spacing. All text to AS1744.
- \* (Paid for by Developer & Installed by Council).
- 5. Posts supplied and installed by Developer.
- 6. Signs to be positioned on the side of street/road that provides best visability.
- 7. Concrete N20 in accordance with AS 1379 and AS 3600.
- 8. All dimensions in millimetres.

### Table of Abbreviations ΑV Avenue Court CT Cresent CR DR Drive Esplanade **ESP** Lane LA PDE Parade Road RD Street ST TCE Terrace

## **CONCRETE FOOTING**

# **SIGN DETAILS**



### Add Sleeve & update text MLP 08/04 drawn Scales: Α Org signed by BDF 04/98 MLP 04/05 checked В Remove Crest NOT TO SCALE designed checked Revisions Sheet A3, Datum: A.H.D.

# **BURNETT SHIRE** COUNCIL

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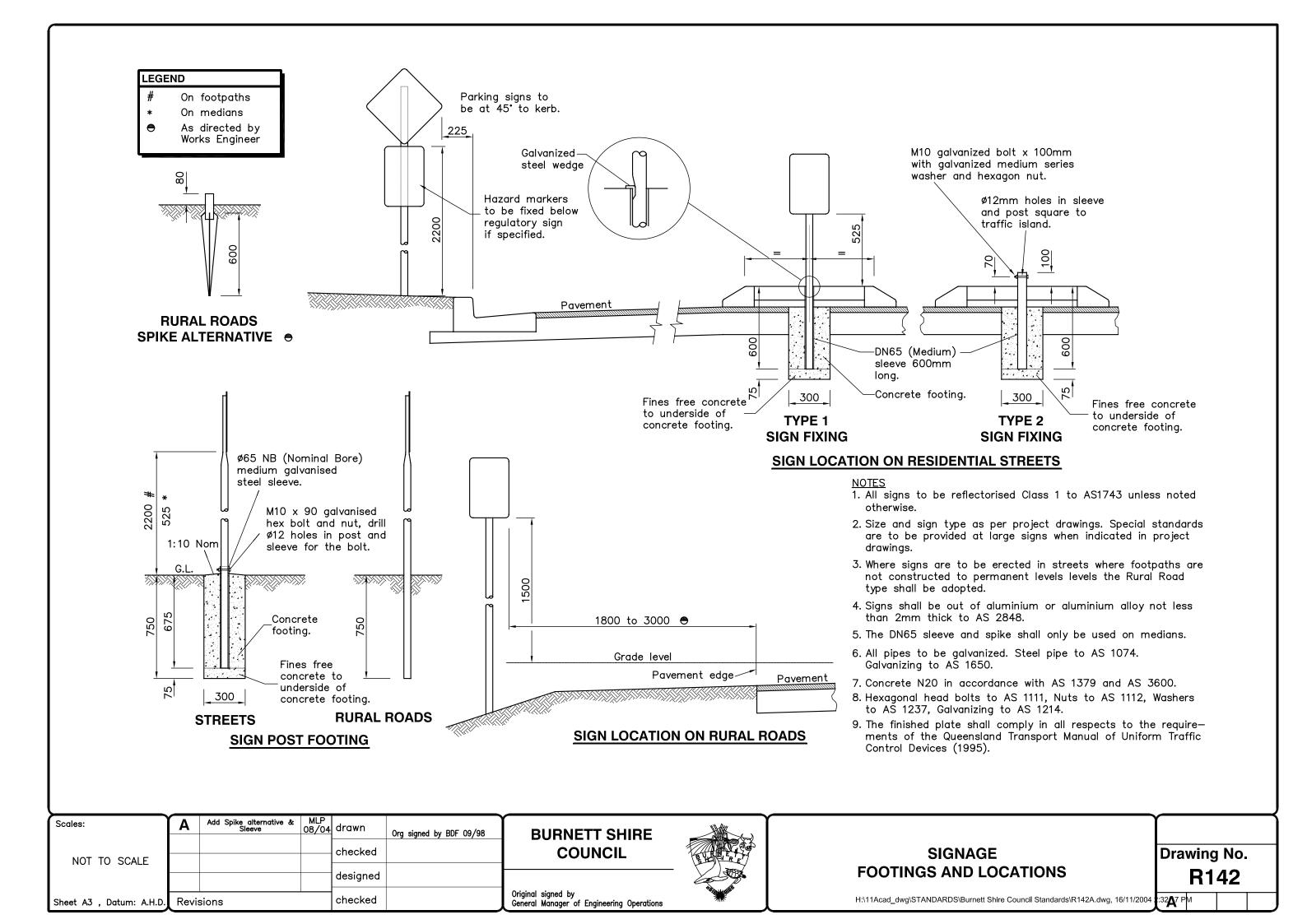


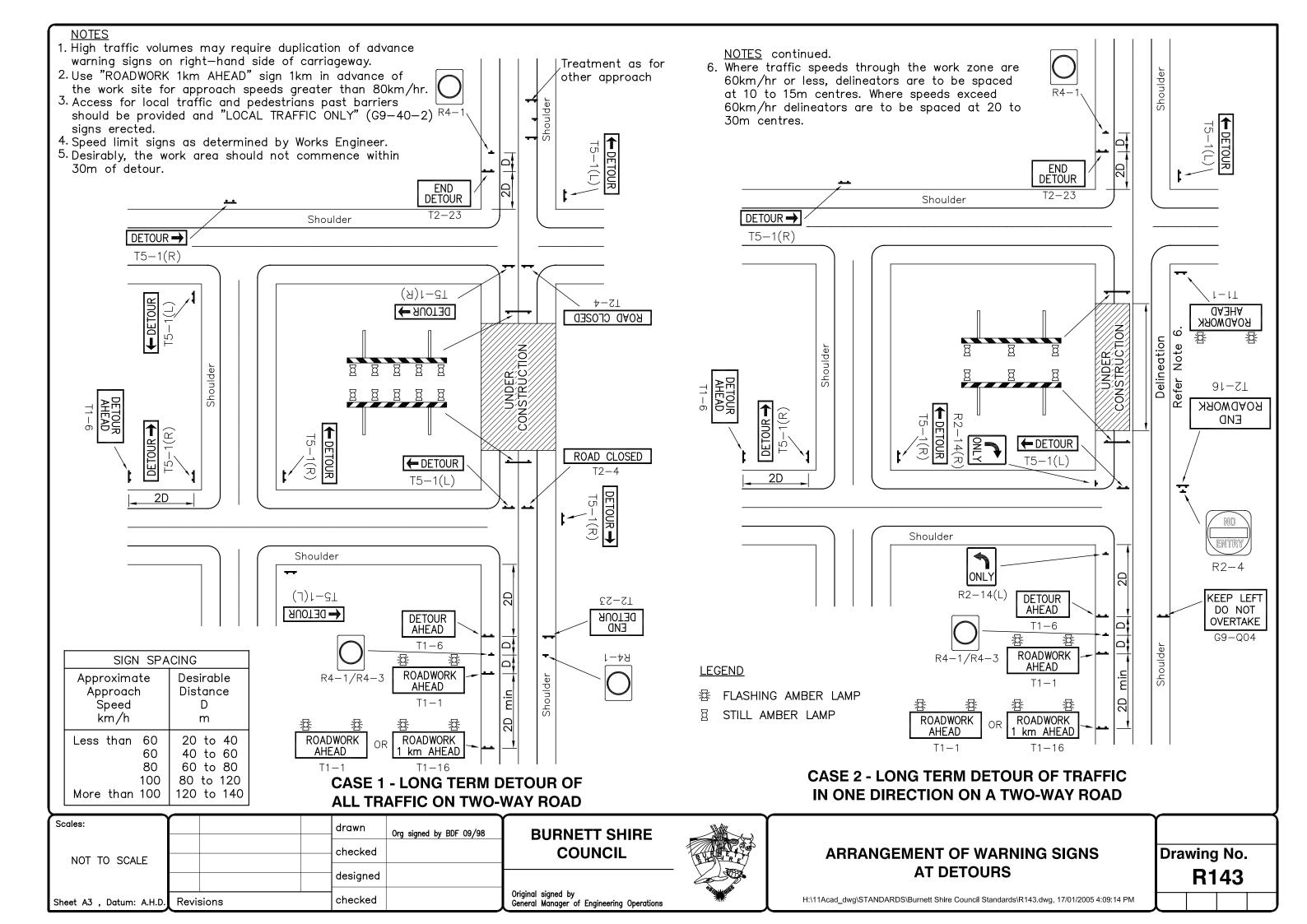
# STREET NAME SIGN **AND POST**

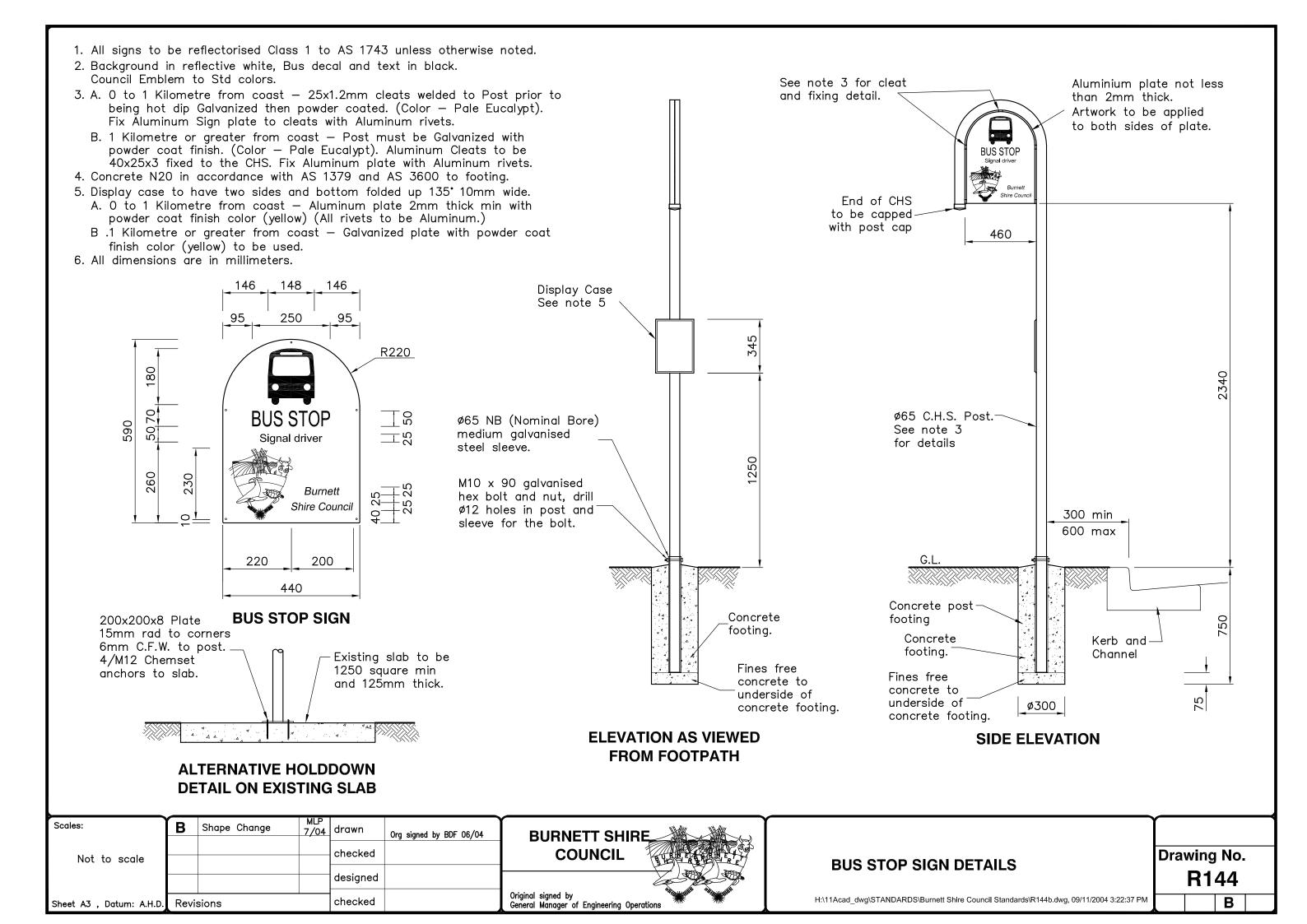
**Drawing No. R141** 

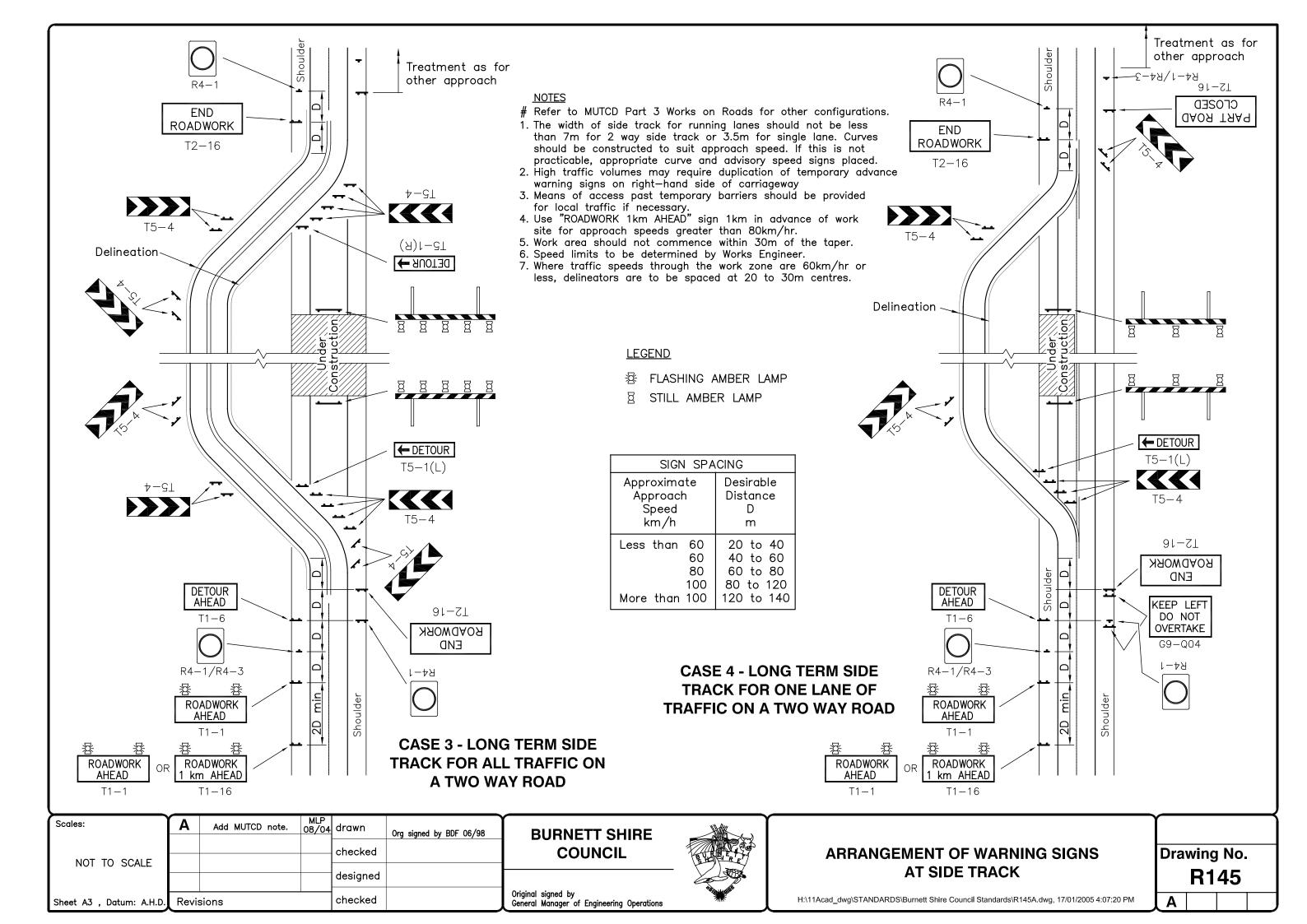
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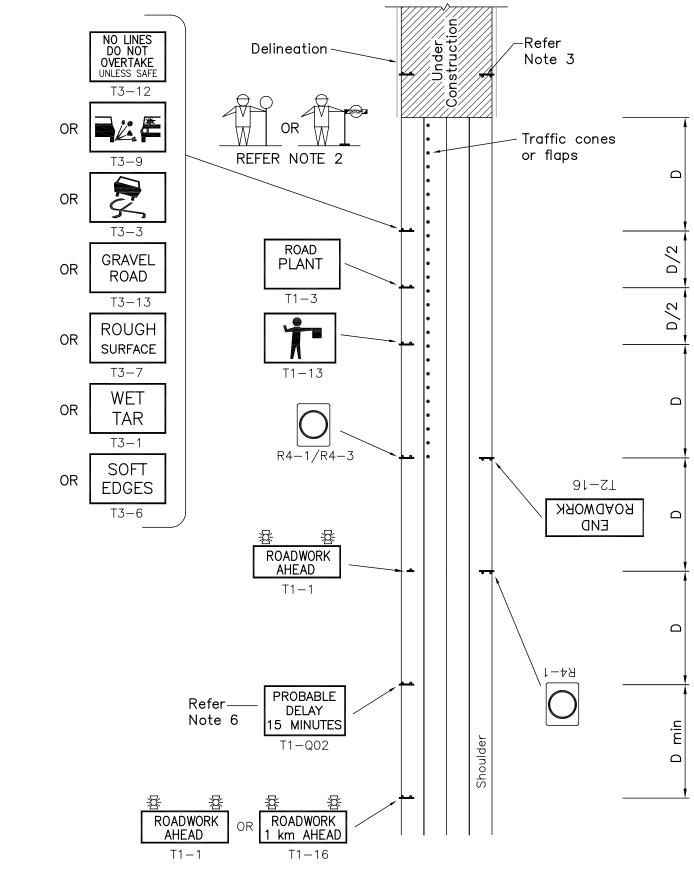
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# CASE 5 - TRAFFIC THROUGH WORK AREA ON A TWO-LANE, tWO-WAY ROAD

## NOTES

- # Refer to MUTCD Part 3 Works on Roads for other configurations.
- 1. This arrangement is most applicable to lightly trafficked roads and bituminous surfacing works. On heavily trafficked roads or bituminous surface priming, work should be undertaken part width at a time.
- 2. Traffic controllers and Traffic Controller ahead signs should always be used for bituminous surfacing operations where traffic volumes are less than 800 vehicles per day. Where traffic volumes are greater than 800 vehicles per day, consideration should be given to the use of a boom barrier in lieu of STOP/SLOW battens.
- 3. Appropriate signs are used and spaced as required and covered when not appropriate, where traffic is approaching a haul road.
- 4. Temporary delineation should be installed if permanent delineation is inadequate.
- 5. Where work is contained in a single lane only, traffic operating in the unobstructed lane may be controlled by using a "ROADWORK AHEAD" sign and speed limit sign on the approach to the works. At the other end of the works an "END ROADWORK" sign and appropriate speed limit sign should be used.
- 6. The "KEEP LEFT DO NOT OVERTAKE" sign should be used in advance of the boom barrier.
- 7. Traffic cones at 5—15m spacing may be used along the centreline with traffic controllers.
- 8. The Traffic Controller Ahead sign should only be used where traffic controllers are on duty. It should be covered or removed at all other times.
- 9. Use "ROADWORK 1km AHEAD" sign 1km in advance of the work site for approach speeds greater than 80km/h.
- 10. A maximum speed limit of 60 km/h shall be used. Cover or alter if inappropriate at night.
- 11. Use "PROBABLE DELAY 15 MINUTES" sign where expected delays are considerable.
- 12. The sign "PREPARE TO STOP" (T1-18) may be used where the PROBABLE DELAY 15 MINUTES sign is not used.

SIGN SPACING					
Approximate	Desirable				
Approach	Distance				
Speed	D				
km/h	m				
Less than 60	20 to 40				
60	40 to 60				
80	60 to 80				
100	80 to 120				
More than 100	120 to 140				

# **LEGEND**

- 😤 Flashing amber lamp.
- Still amber lamp.

Scales:	Α	Add MUTCD note.	MLP 08/04	drawn	Org signed by BDF 09/98
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# BURNETT SHIRE COUNCIL

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# ARRANGEMENT OF WARNING SIGNS AT TRAFFIC THROUGH WORK SITE

Drawing No. R146

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# END ROADWORK T2-16 S-STTraffic cones or flaps Delineation Construction Taper - Delineation T5 - 591-27 ROADWORK R4-1/R4-3 END $\Box$ ⊒. 20 ROADWORK **ROADWORK** AHEAD 1 km AHEAD T1 - 1

# **CASE 6 - SHORT-TERM ROADWORKS TO CENTRE OF CARRIAGEWAY ON TWO-WAY ROAD**

**NOTES** 

- # Refer to MUTCD Part 3 Works on Roads for other configurations.
- 1. Any vehicles should be parked off the carriageway, beyond the work area. A vehicle so parked should not display cab—mounted warning devices.
- 2. Additional advance warning signs should be placed on the right—hand side of approaching traffic on heavily trafficked roads.
- 3. Culverts or other obstructions should be clearly marked with delineation.
- 4. A maximum speed limit of 60km/h shall be used where traffic controllers are employed.
- 5. Use ROADWORK 1 km AHEAD sign 1 km in advance of the work site for approach speeds greater than 80 km/h. This sign may be omitted for work of short duration, unless presence of next advance warning sign would be unexpected.
- 6. Use traffic controllers with Traffic Controller Ahead sign while workers are in the work area and when machines or materials are being brought to the site.
- 7. Safety helmet and high visibility garment should be worn.
- 8. For continuous operations such as paint spotting, the traffic controller and lateral shift markers may be replaced with vehicles fitted with the appropriate cab-mounted warning devices and the delineation traffic cones omitted.
- 9. The Speed Restriction sign may be mounted together with the the END ROADWORK sign, where desired.

SIGN	CING	
Approxima Approach Speed km/h	Desirable Distance D m	
Less than	60 60 80 100	20 to 40 40 to 60 60 to 80 80 to 120
More than	100	120 to 140

# LEGEND

- 容 Flashing amber lamp.
- Still amber lamp.

Scales:	Α	Add MUTCD note.	MLP 08/04	drawn	Org signed by BDF 06/98
				checked	, , ,
NOT TO SCALE				designed	
Sheet A3 , Datum: A.H.D.	Revi	sions		checked	

# **BURNETT SHIRE** COUNCIL

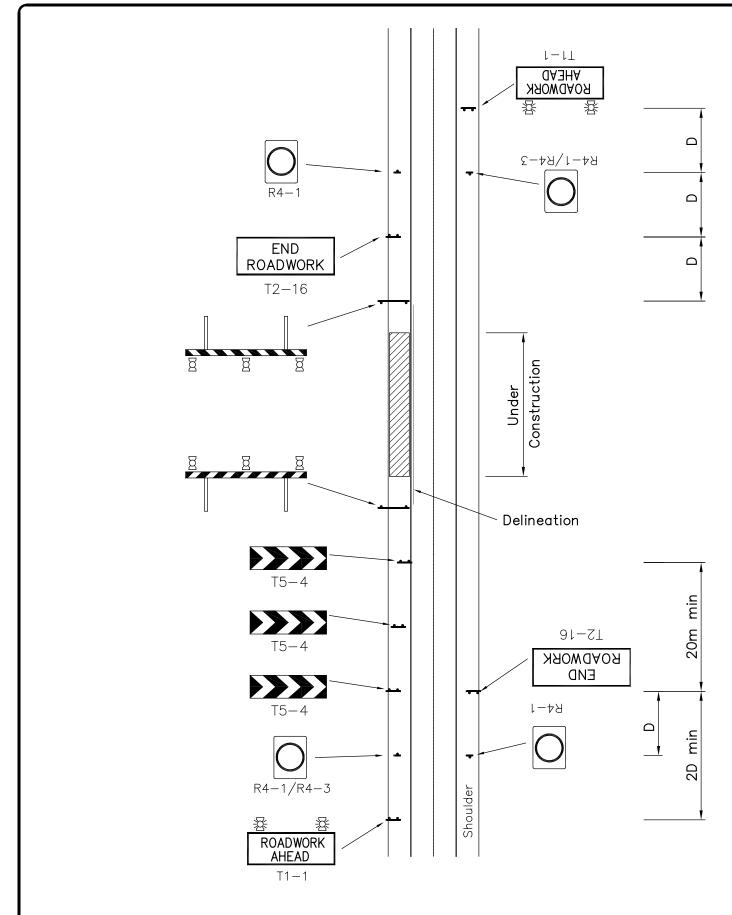
Original signed by General Manager of Engineering Operations



# ARRANGEMENT OF WARNING SIGNS WHERE ROSDWORKS IS IN CENTRE OF **CARRIAGEWAY**

**Drawing No. R147** 

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- # Refer to MUTCD Part 3 Works on Roads for other configurations.
- 1. In urban areas, access for pedestrians should be considered together with the appropriate signs.
- 2. Access for local traffic should be considered.
- 3. At night, or when no work is being carried out, barriers may be erected along the work site at right angles to traffic flow.
- 4. Work may encroach on traffic lane if AADT is less than 400 vehicles per day and sufficient width (5.5m) remains.
- 5. For work of short duration, barriers and lamps may be omitted and traffic cones at 5 to 15m spacings used in lieu of lateral shift markers.
- 6. For survey operations replace ROADWORK AHEAD sign with Workers Ahead sign; barriers and lamps may also be omitted and traffic cones at 5 to 15m spacings used in lieu of lateral shift markers.
- 7. Where traffic flow must be temporarily interrupted, traffic controllers with appropriate signing should be used.

SIGN SPA	CING
Approximate	Desirable
Approach	Distance
Speed	D
km/h	m
Less than 60	20 to 40
60	40 to 60
80	60 to 80
100	80 to 120
More than 100	120 to 140

**CASE 7 - SHOULDER CLOSURE - ALL ROADS** 

Scales:	Α	Add MUTCD note.	MLP 08/04	drawn	Org signed by BDF 06/98
NOT TO SCALE				checked	
NOT TO SCALE				designed	-
Sheet A3 , Datum: A.H.D.	Revis	sions		checked	

# BURNETT SHIRE COUNCIL

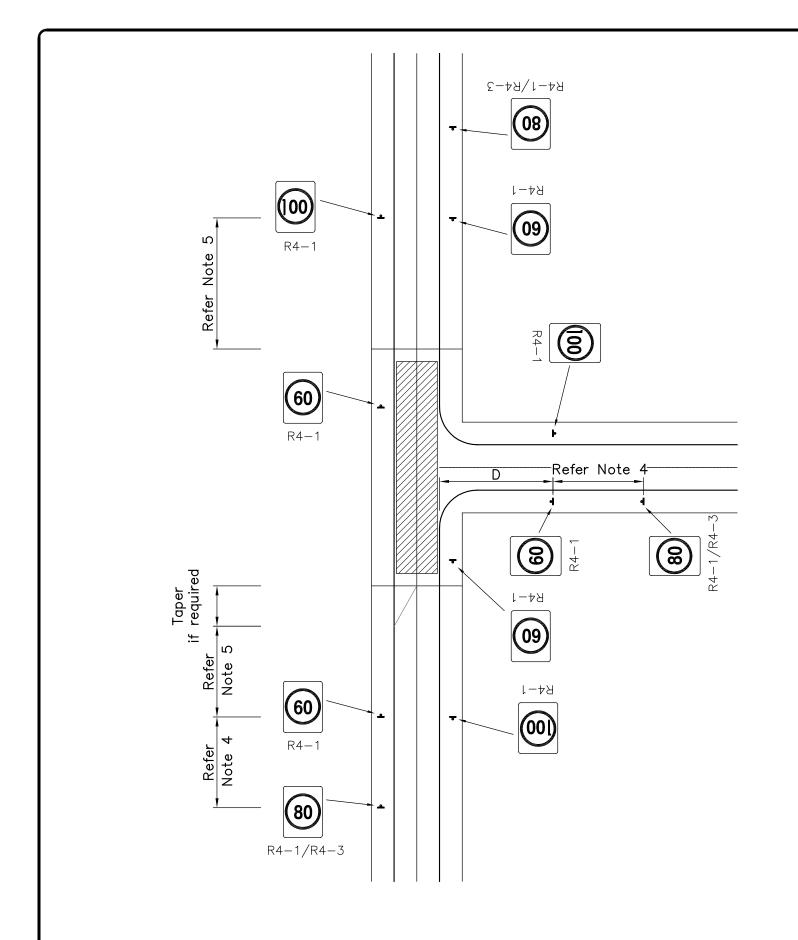
Original signed by General Manager of Engineering Operations



# ARRANGEMENTN OF WARNING SIGNS WHERE ROADWORKS IS ON ROAD SHOULDER

Drawing No. R148

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- # Refer to MUTCD Part 3 Works on Roads for other configurations.
- 1. Appropriate speed limits and the relevant speed limit signage should be first approved by Works Engineer before installation.
- 2. High traffic volumes, particularly on multi—lane roads, may require duplication of these signs on the right—hand side of the carriageway. Where a median is provided, erect these signs on median.
- 3. A maximum speed limit of 60 km/h shall be used where traffic controllers are on duty or where one or more lanes of a multi—lane road are closed to traffic
- 4. It is desirable to reduce speed limits in 20km/h steps, with approximately 500m intervals between successive signs.
- 5. Location of speed limit signs may vary on individual jobs depending on the arrangement of roadworks signage.

SIGN SPA	CING		
Approximate	Desirable		
Approach	Distance		
Speed	D		
km/h	m		
Less than 60	20 to 40		
60	40 to 60		
80	60 to 80		
100	80 to 120		
More than 100	120 to 140		

TAPER LENGHT IN ONE LANE							
Approxima		Recommended Taper, m					
Approach Speed km/h	1	Two—lane Two—way	Multi-lane				
Less than	60 60 80 100	60 80 100 120	90 110 150 190				
More than	100	140	210				

## SPEED LIMIT SIGNAGE AT ROADWORKS

Scales:	Α	Add MUTCD note.	MLP 08/04	drawn	Org signed by BDF 06/98
NOT TO COME				checked	
NOT TO SCALE				designed	
Sheet A3 , Datum: A.H.D.	Revis	sions		checked	

# BURNETT SHIRE COUNCIL

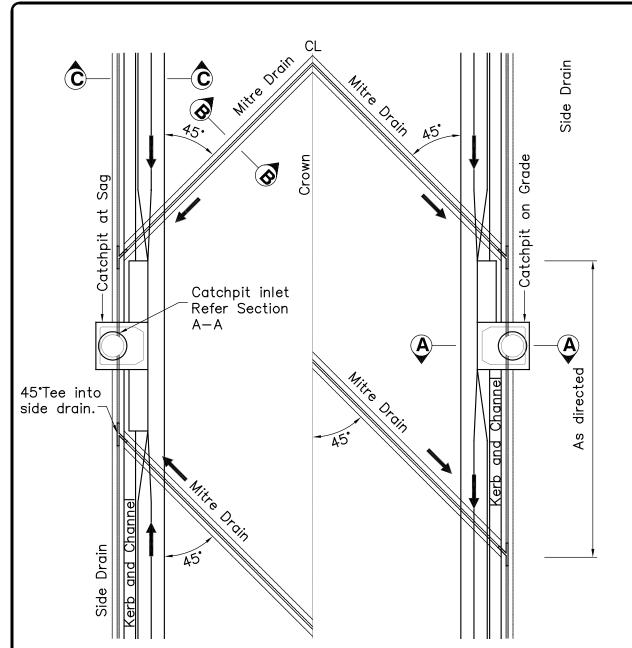
Original signed by General Manager of Engineering Operations



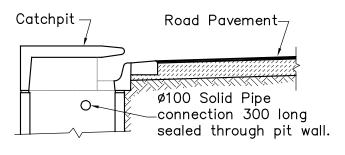
# ARRANGEMENT OF SPEED LIMIT SIGNS AT ROADWORKS

Drawing No. R149

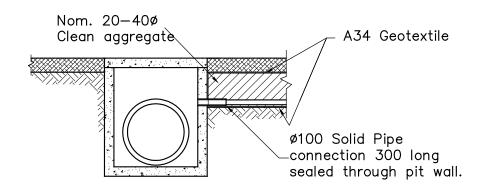
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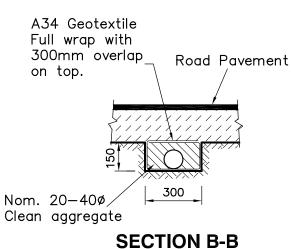
**PLAN** 



# SECTION A-A CATCHPIT INLET



# CONNECTION TO SW PIT DETAIL



A34 Geotextile
Full wrap with
300mm overlap
on top.

Backfill

Nom. 20-40¢
Clean aggregate

Pavement Subgrade

100¢ PE Socked
& slotted "Draincoil"

# SECTION C-C SIDE DRAIN

# LEGEND

- E Trench width as specified on project drawings.
- Dimension as shown unless otherwise specified on project drwaings.
- Sand
- Gravel
- Pavement Pavement
- Spalls

## <u>NOTES</u>

1. DRAIN LOCATION: The location of side drains and mitre Drains is typical only. Drains shall be located as directed on site by Works Engineer. Mitre Drains shall meet under crown of roadway where side drains are provided on both sides. Where only one Side Drain is provided Mitre Drains are to extend diagonally through the full width of pavement.

MITRE DRAIN

- 2. DRAINAGE PIPE: Ø100 "socked slotted" PE "draincoil pipes are to be provided in all side and mitre drains unless directed otherwise by Works Engineer.
- 3. BUILDING PAPER: Ply tarred building paper or other approved impervious material shall be placed on top of the gravel fill in all drains. Building paper shall be 50mm wider than the trench for the underdrain, ie. for side drains 250mm wide the paper shall be 300mm wide.
- 4. CONSTRUCTION PROCEDURE: Trimming and rolling of the pavement box is to be completed and approved before Side Drains are commenced. The Side Drain shall then be excavated and the excavated material shall be placed on the footpath and not onto the pavement box.
- 5. CONDUIT PIPE CROSSINGS: Where Side Drains pass under Conduit Pipes, the Side Drains are to be deepened to allow for a minimum depth of gravel under the Conduit Pipe where no sub—soil pipe is provided and to allow for a 50mm minimum gravel between the Conduit Pipe and the Sub—soil Pipe where such is provided. Where so deepened, Side Drains are to be geaded out to normal depth at a minimum grade of 1 in 200.

Scales:	Α	Change side drain details.	MLP 8/04	drawn	Org signed by BDF 09/98
NOT TO SCALE				checked	
NOT TO SCALL				designed	
Sheet A3 , Datum: A.H.D. Re		sions		checked	

# BURNETT SHIRE COUNCIL

Original signed by General Manager of Engineering Operations



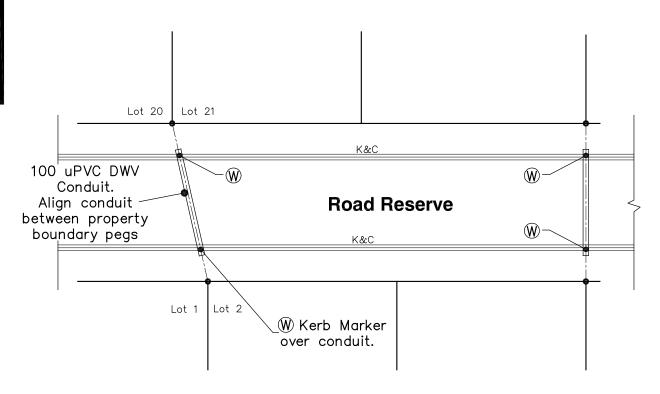
# SIDE DRAINS, MITRE DRAINS AND SEEPAGE DRAINS

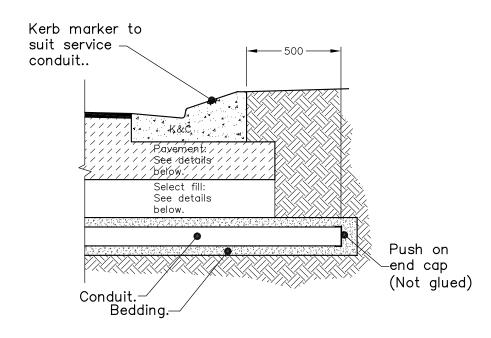
Drawing No. R151

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# **LEGEND**

Min cover for conduits.
# Telstra. — 450
Ergon. — 750
Water main. — 750
Water service — 450



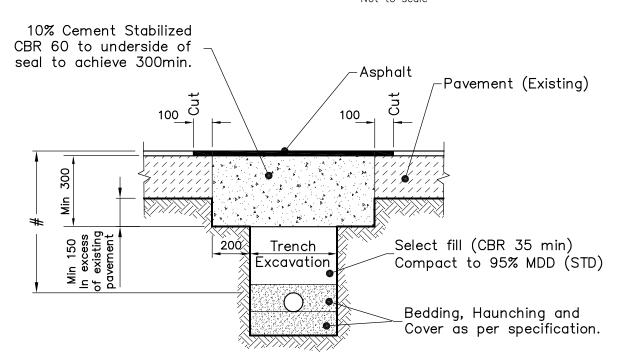


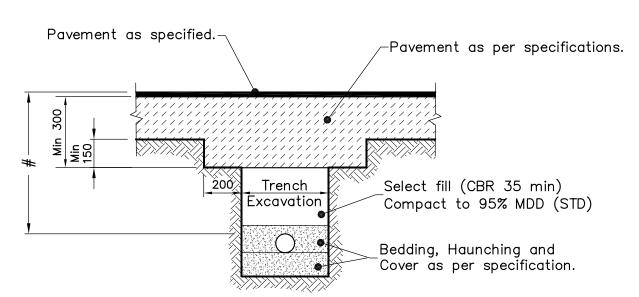
# WATER SERVICE CONDUIT LOCATION PLAN

Not to scale

# **TYPICAL DETAIL AT KERB & CHANNEL**

Not to scale





# CONDUIT/SERVICE ROAD - CROSSING TYPICAL DETAILS - EXISTING ROAD

# CONDUIT/SERVICE ROAD - CROSSING TYPICAL DETAILS - NEW ROAD

Scales:	Α	Add conduit note.	MLP 03/06	drawn	Org signed by MLP 08/04
				checked	
NOT TO SCALE				designed	_
Sheet A3 , Datum: A.H.D.				checked	

# BURNETT SHIRE COUNCIL

Original signed by General Manager of Engineering Operations



# CONDUIT/SERVICE ROAD - CROSSING DETAILS

Drawing No. R152

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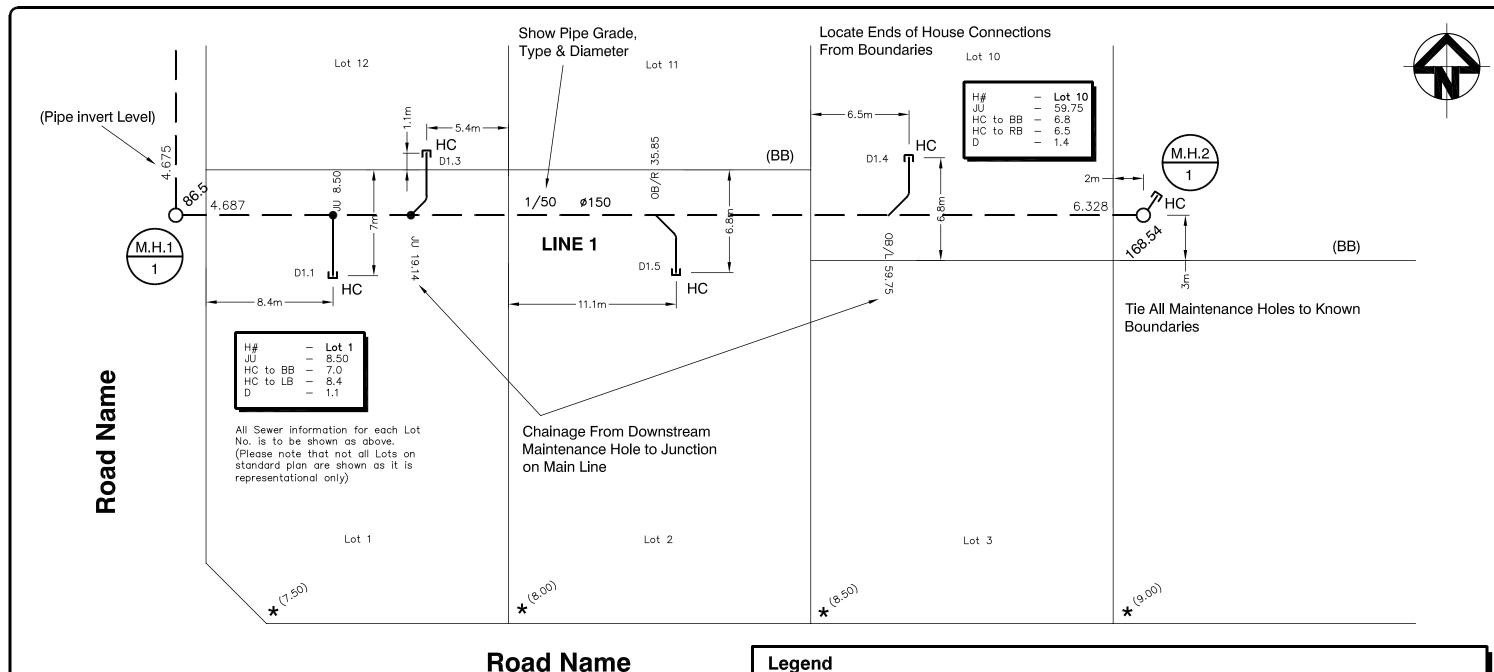
# BURNETT SHIRE COUNCIL STANDARD DRAWINGS

# **SEWERAGE**

Number	Title / Topic
	General
80524	Sewer Reticulation Typical Sewer Main Layout As Constructed Plans
S500	Access Chambers Cast Iron Cover and Frame C.I. Concrete Filled Cover Cast Iron Cover
S501	Access Chambers Cast Iron Cover and Frame Bolt Down
	2440 Diameter Sewage Pump Stations
100806	2440 Dia. Sewage Pump Station - Cover Sheet and Drawing Index
100807	2440 Dia. Sewage Pump Station - Site Layout Requirements
100808	2440 Dia. Sewage Pump Station - Electrical Requirements Plan
100809	2440 Dia. Sewage Pump Station - Civil Requirements Plan
100810	2440 Dia. Sewage Pump Station - Section A
100811	2440 Dia. Sewage Pump Station - Section B
100812	2440 Dia. Sewage Pump Station - Section C
100813	1830 Dia. Grit Collector Maintenance Hole - Details Sheet 1 of 3
100814	1830 Dia. Grit Collector Maintenance Hole - Details Sheet 2 of 3
100815	1830 Dia. Grit Collector Maintenance Hole - Details Sheet 3 of 3
100817	2440 Dia. Sewage Pump Station - Potable Water Details
100822	2440 Dia. Sewage Pump Station - Fabricated Mild Steel Headers
100832	1830 Dia. Grit Collector Maintenance Hole - Wall Pipe Detail
100833	Grit Collector Maintenance Hole - Inlet Valve General Arrangement
100834	Grit Collector Maintenance Hole - Inlet Valve Spindle Shaft Details
100835	Grit Collector Maint. Hole - Inlet Valve Bearing Support Details

# SEWERAGE (continued)

-	211210102 (commutat)								
Number	Title / Topic								
100836	1830 Dia. Grit Collector Maint. Hole - Bar Screeen Detail Sheet 1 of 2								
100837	1830 Dia. Grit Collector Maint. Hole - Bar Screeen Detail Sheet 2 of 2								
101025	Chain and Bracket Details								
101026	Pipe Support Bracket Details								
101028	Hole Wall Pipe Details								
100995	Typical Electrical Cubical Layout 6kw D.O.L.								
101027	Typical Electrical Cubical Layout 30kw VF								
100901	Standard Overflow Flap Valve Type 1 Chamber Details								



I HEREBY STATE THAT THE INFORMATION IS A TRUE AND ACCURATE INDICATION OF THE SEWER **ENGINEER** RPEQ No. Date.....

## NOTES:

- 1. All sewer pipes are Ø150 unless shown otherwise, include type.
- 2. Sewer Layout Plan scale to be 1:500
- 3. Longitudinal section scale Horiz. 1:1000, Vert. 1:100 4. Ground spot levels at all corners of block and at
- changes of grade (AHD Datum).
- 5. Drawing presented on A3 sheet

## OB/L (left) As constructed Spot Level Type A OB/R (right) - House Connection **PLAN SECTION** - Jump up on Sewer Main as measured from downstream maintenance hole Type B - Back Boundary (as observed from road) SECTION **PLAN** LB or RB — Left or Right Boundary (as observed from Road) Type C Jump up D - Depth from finished surface to HC Cap PLAN SECTION

Scales:		Α	Amended Plan	DG 5/04	drawn	Org signed by DG 03/04		
ọ	2	4	6 <sub>m</sub>				checked	
			_				designed	Org signed by RMC 03/04
Sheet	A3 ,	Datum:	A.H.D.	Revi	⊥ sions		checked	

# **BURNETT SHIRE** COUNCIL

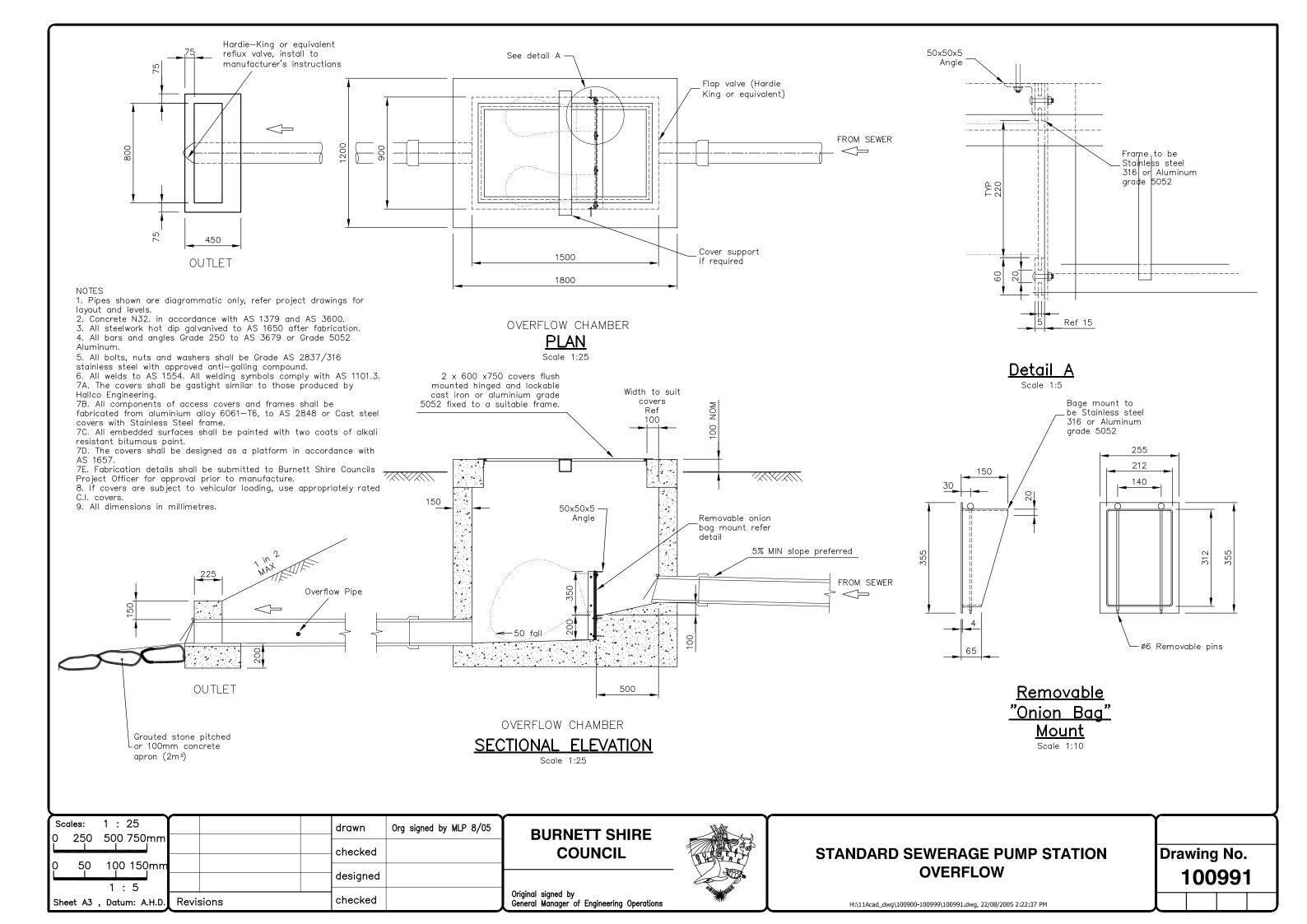
Original signed by General Manager of Engineering Operations



# **SEWER RETICULATION** TYPICAL SEWER MAIN LAYOUT AS CONSTRUCTED **PLANS**

**Drawing No.** 80524

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# B.S.C. STANDARD DRAWINGS FOR 2440 DIAMETER SEWAGE PUMP STATIONS

	STANDARD DRAWING LIST								
	CIVIL AND MECHANICAL DRAWINGS	ELECTRICAL DRAWINGS							
DWG N°.	TITLE	DWG N°.	TITLE						
100806	STANDARD 2440 DIA. SEWAGE PUMP STATION - COVER SHEET AND DRAWING INDEX	100995	SEWERAGE PUMP STATION CUBICAL LAYOUT (6Kw D.O.L.)						
100807	STANDARD 2440 DIA. SEWAGE PUMP STATION - SITE LAYOUT REQUIREMENTS	101027	SEWERAGE PUMP STATION TYPICAL CUBICLE LAYOUT (30Kw VF)						
100808	STANDARD 2440 DIA. SEWAGE PUMP STATION - ELECTRICAL REQUIREMENTS PLAN								
100809	STANDARD 2440 DIA. SEWAGE PUMP STATION - CIVIL REQUIREMENTS PLAN								
100810	STANDARD 2440 DIA. SEWAGE PUMP STATION - SECTION A								
100811	STANDARD 2440 DIA. SEWAGE PUMP STATION - SECTION B	1							
100812	STANDARD 2440 DIA. SEWAGE PUMP STATION - SECTION C								
100813	STANDARD 1830 DIA. GRIT COLLECTOR MAINTENANCE HOLE - DETAILS								
100814	STANDARD 1830 DIA. GRIT COLLECTOR MAINTENANCE HOLE - DETAILS								
100815	STANDARD 1830 DIA. GRIT COLLECTOR MAINTENANCE HOLE - DETAILS	1							
SEW 1408	VENTILATION SYSTEMS EDUCT VENT	1							
		1							
100817	STANDARD 2440 DIA. SEWAGE PUMP STATION - POTABLE WATER DETAILS								
100822	STANDARD 2440 DIA. SEWAGE PUMP STATION - FABRICATED MILD STEEL HEADERS								
100832	STANDARD 1830 DIA. GRIT COLLECTOR MAINTENANCE HOLE - WALL PIPE DETAIL								
100833	GRIT COLLECTOR MAINTENANCE HOLE - INLET VALVE GENERAL ARRANGEMENT								
100834	GRIT COLLECTOR MAINTENANCE HOLE - INLET VALVE SPINDLE SHAFT DETAILS	1							
100835	GRIT COLLECTOR MAINTENANCE HOLE - INLET VALVE BEARING SUPPORT DETAILS	1							
100836	STANDARD 1830 DIA. GRIT COLLECTOR MAINTENANCE HOLE - BAR SCREEEN DETAIL								
100837	STANDARD 1830 DIA. GRIT COLLECTOR MAINTENANCE HOLE - BAR SCREEEN DETAIL								
101025	STANDARD DRAWINGS FOR SEWERAGE PUMP STATION CHAIN AND BRACKET DETAILS	][	ADDITIONAL DRAWINGS						
101026	STANDARD DRAWINGS FOR SEWERAGE PUMP STATION PIPE SUPPORT BRACKET DETAILS								
101028	STANDARD 2440 DIA. SEWAGE PUMP STATION - HOLE WALL PIPE DETAIL	DWG N°.	TITLE						
<u> </u>		100991	STD SEWER PUMP STN OVERFLOW						
		ν	1						

THESE DRAWINGS CONTAIN BURNETT SHIRE COUNCIL'S MINIMUM REQUIREMENTS AND ARE TO BE USED AS A REFERENCE FOR PRODUCING THE DETAILED DESIGN OF PUMP STATIONS. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION.

Drawings adopted with permissions from Brisbane City Council by Burnett Shire Council 21/09/04

Scales:	Α	Update Plan Details	MLP 12/05	drawn	Org signed by MLP 9/04
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NOT TO SCALE				designed	Org signed by I C 9/04
Sheet A3 , Datum: A.H.D.	Revis	sions		checked	Org signed by

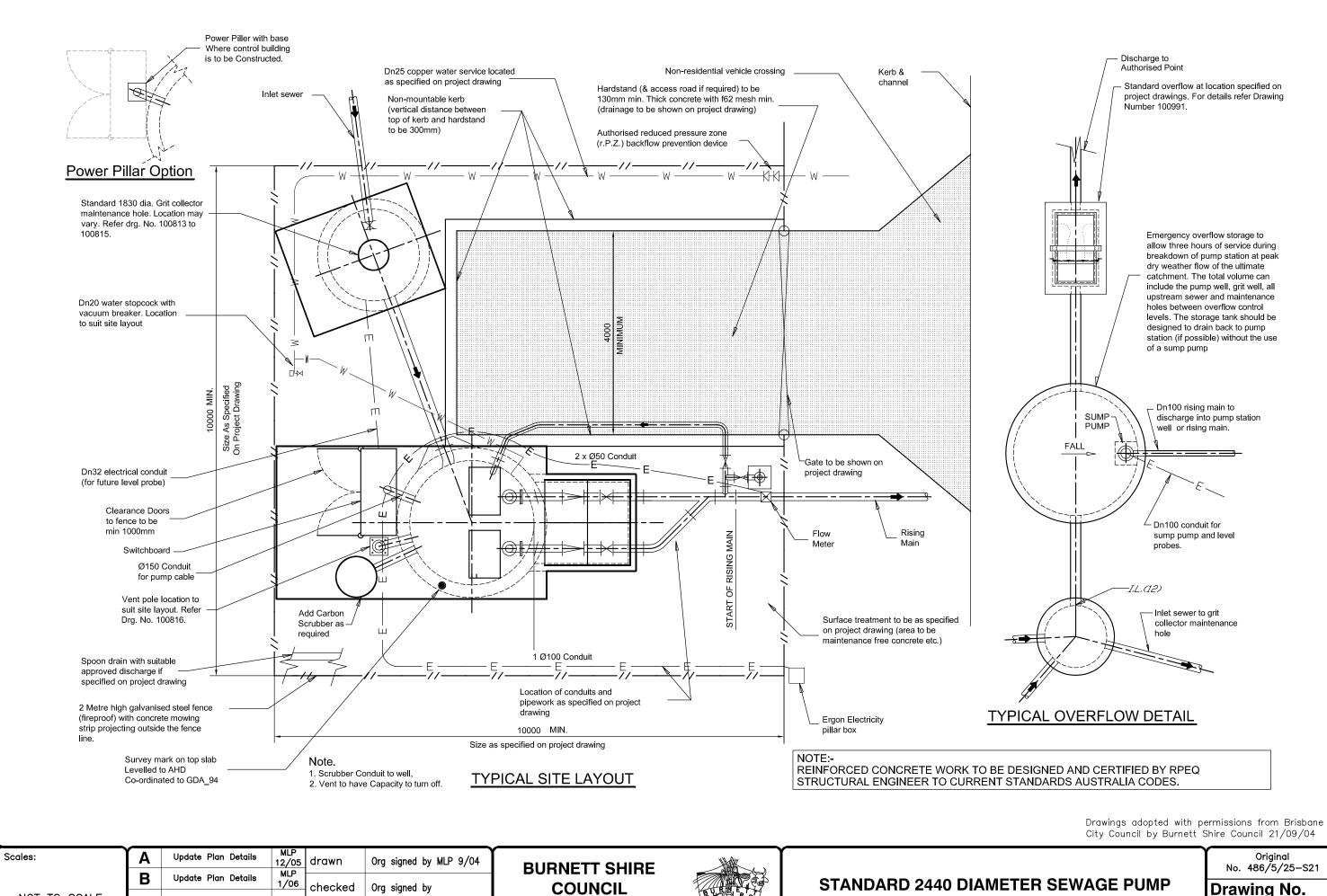
BURNETT SHIRE COUNCIL

Original signed by General Manager of Engineering Operations



2440 DIAMETER SEWAGE PUMP STATIONS COVER SHEET AND DRAWING INDEX

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Original signed by General Manager of Engineering Operations

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Revisions

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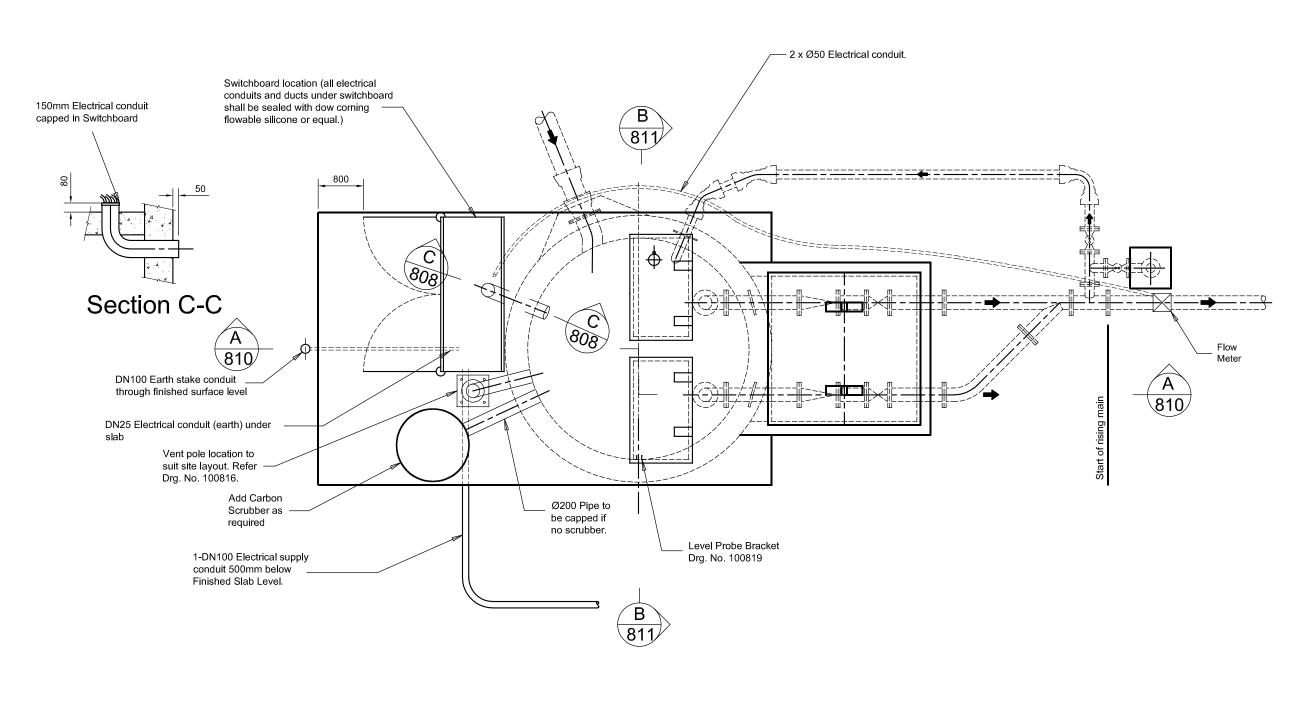
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STATION SITE LAYOUT REQUIREMENTS

Drawing No. 100807 В



# **PLAN**

NOTE:REINFORCED CONCRETE WORK TO BE DESIGNED AND CERTIFIED BY RPEQ
STRUCTURAL ENGINEER TO CURRENT STANDARDS AUSTRALIA CODES.

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MLP 12/05 drawn Update Plan Details Scales: Org signed by MLP 9/04 checked Org signed by NOT TO SCALE designed | Org signed by I C 9/04 checked Org signed by Revisions Sheet A3 , Datum: A.H.D.

**BURNETT SHIRE** COUNCIL

Original signed by General Manager of Engineering Operations

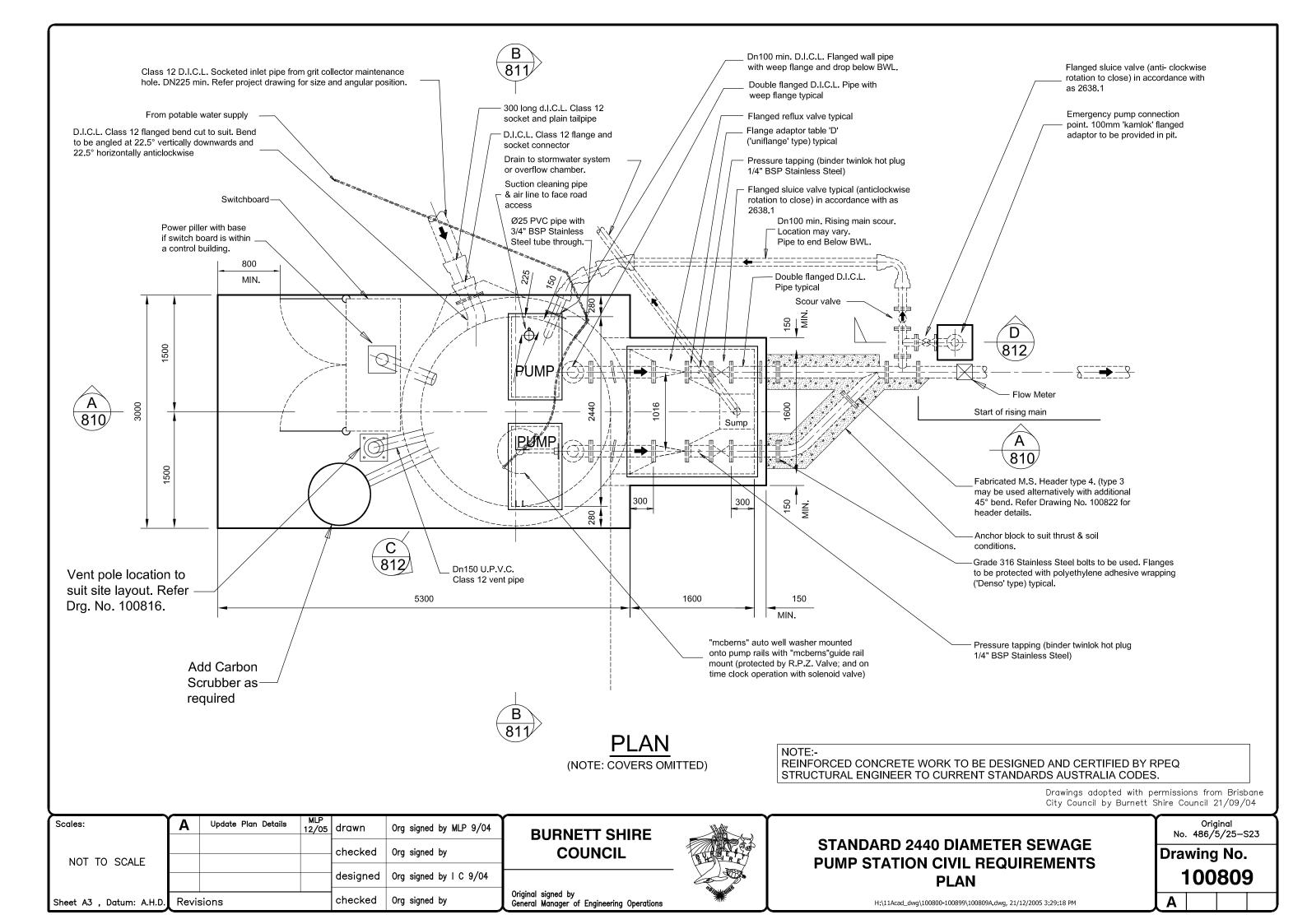


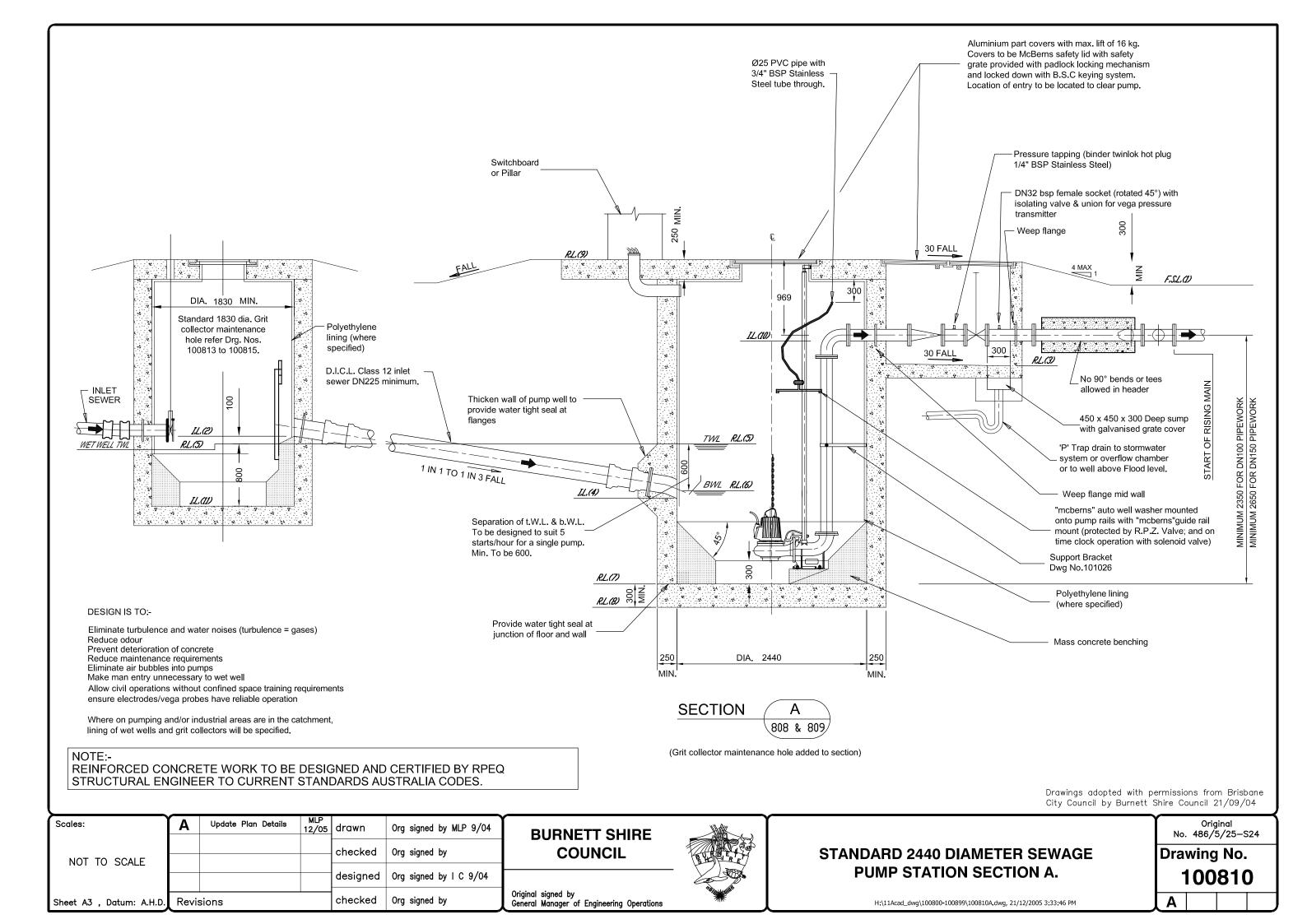
# **STANDARD 2440 DIAMETER SEWAGE PUMP STATION ELECTRICAL** REQUIREMENTS PLAN

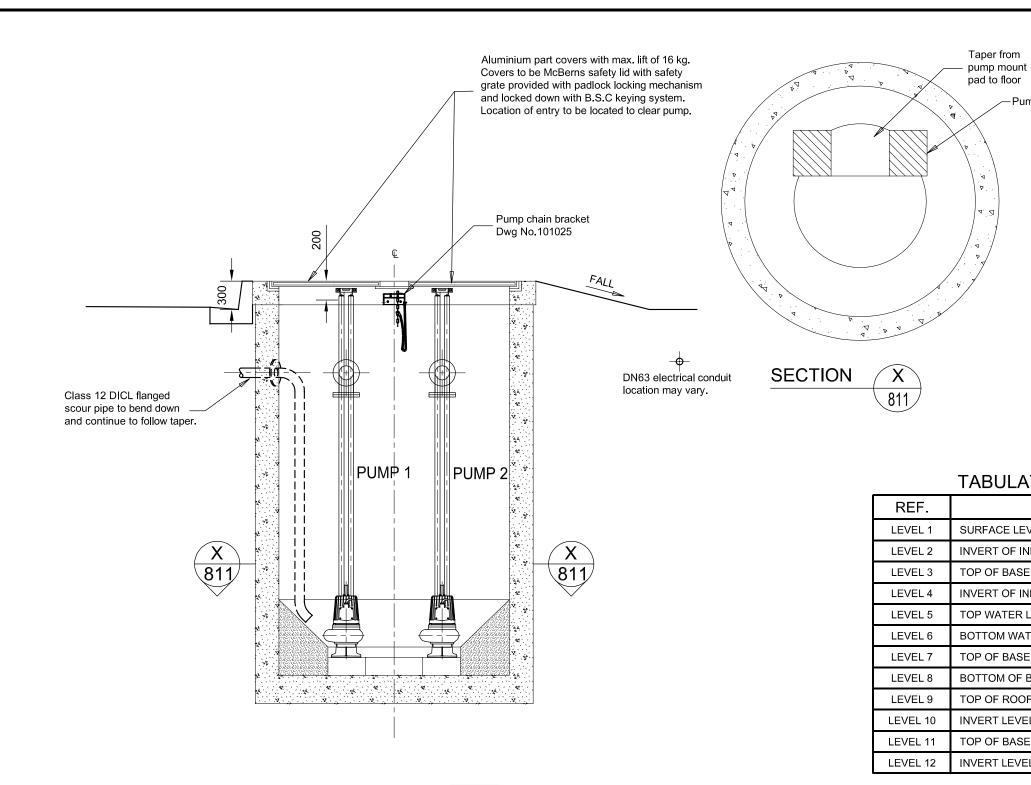
Drawing No. 100808

Original No. 486/5/25-S22

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В

808 & 809

TABULATION OF PUMPING STATION LEVELS

REF.	DESCRIPTION	LEVEL
LEVEL 1	SURFACE LEVEL	
LEVEL 2	INVERT OF INLET AND OUTLET OF GRIT COLLECTOR MAINTENANCE HOLE	
LEVEL 3	TOP OF BASE OF REFLUX VALVE PIT	
LEVEL 4	INVERT OF INLET SEWER AT PUMP WELL	
LEVEL 5	TOP WATER LEVEL OF PUMP WELL	
LEVEL 6	BOTTOM WATER LEVEL OF PUMP WELL	
LEVEL 7	TOP OF BASE SLAB OF PUMP WELL	
LEVEL 8	BOTTOM OF BASE SLAB OF PUMP WELL	
LEVEL 9	TOP OF ROOF SLAB OF PUMP WELL	
LEVEL 10	INVERT LEVEL OF RISING MAIN THROUGH PIT WALL	
LEVEL 11	TOP OF BASE OF GRIT COLLECTOR MAINTENANCE HOLE	
LEVEL 12	INVERT LEVEL OF OVERFLOW	

## NOTE:

FOR R.L.(2) AND R.L.(11) REFER TO GRIT COLLECTOR MAINTENANCE HOLE. FOR R.L.(12) REFER TO OVERFLOW DETAIL.

-Pump Mounting pad

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				designed	Org signed by I C 9/04
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**SECTION** 

# **BURNETT SHIRE** COUNCIL

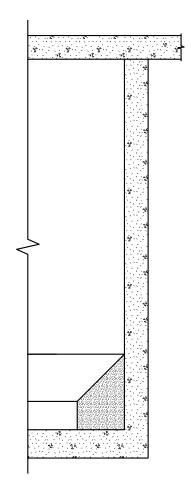
Original signed by General Manager of Engineering Operations



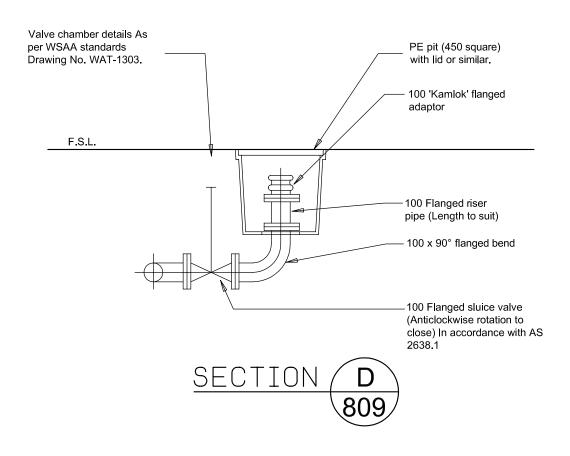
# **STANDARD 2440 DIAMETER SEWAGE PUMP STATION SECTION B.**

Original No. 486/5/25-S25 Drawing No. 100811 В

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# **BURNETT SHIRE** COUNCIL

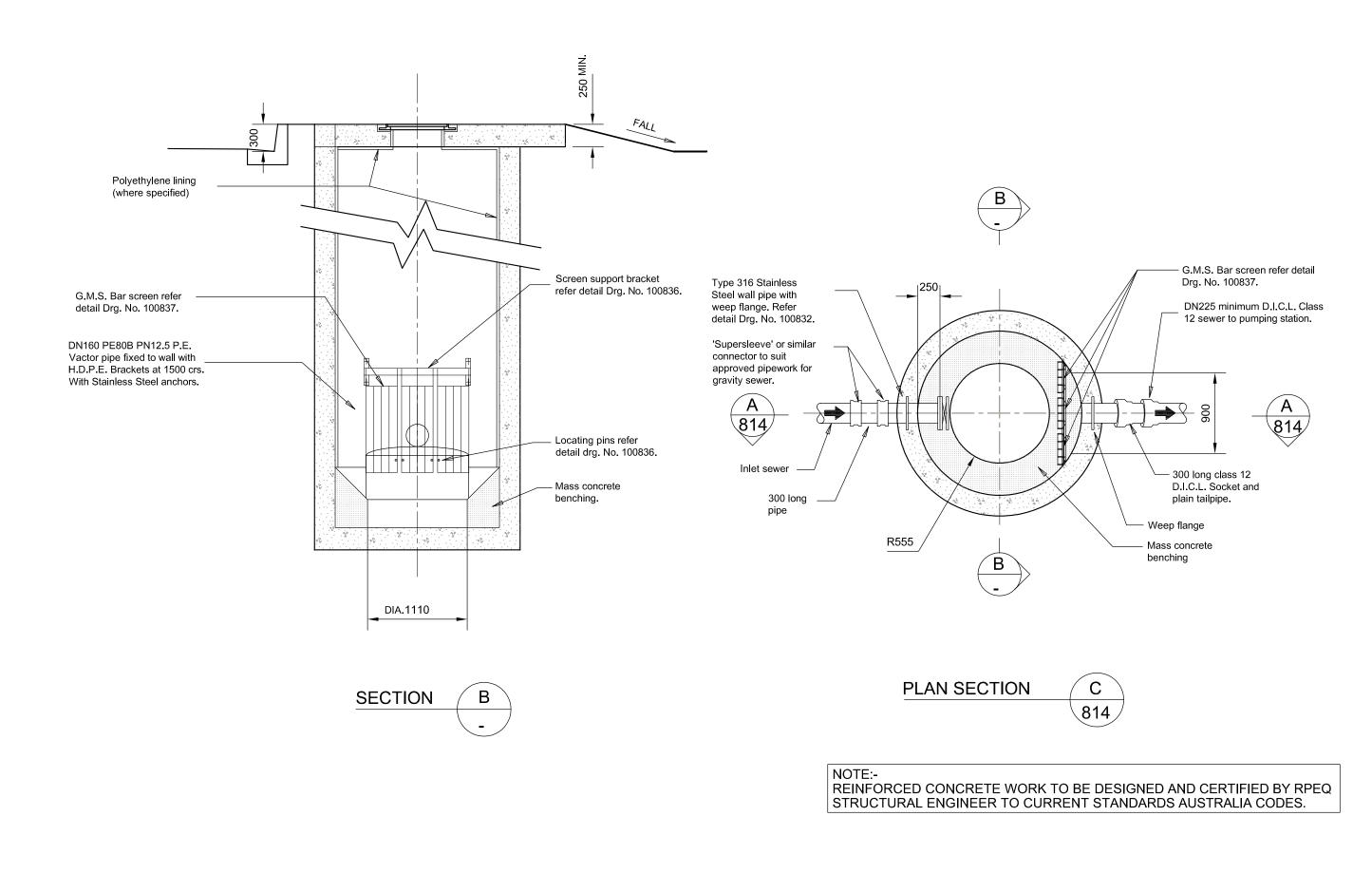
Original signed by General Manager of Engineering Operations



# **STANDARD 2440 DIAMETER SEWAGE PUMP STATION SECTION C.**

Original No. 486/5/25-S26 Drawing No. 100812

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Scales:

A Update Plan Details MLP 9/05

B Update Plan Details MLP 1/06

Checked Org signed by MLP 9/04

Checked Org signed by I C 9/04

Sheet A3, Datum: A.H.D. Revisions Checked Org signed by

BURNETT SHIRE COUNCIL

Original signed by General Manager of Engineering Operations



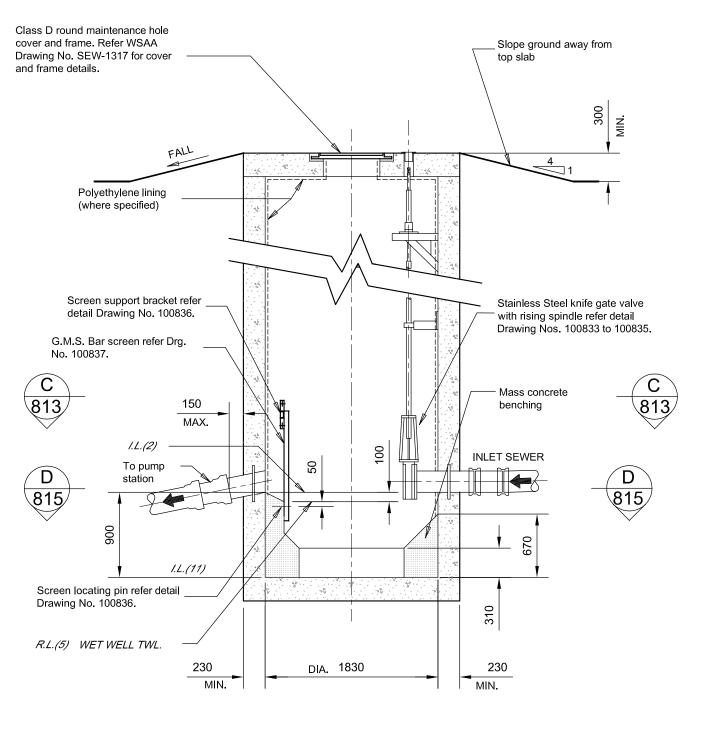
# STANDARD 1830 DIAMETER GRIT COLLECTOR MAINTENANCE HOLE DETAILS

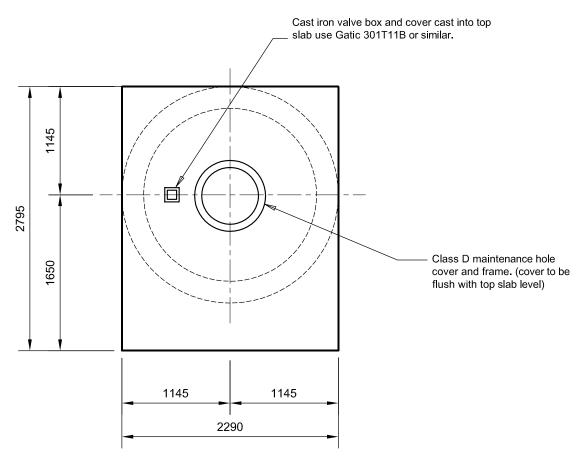
Original No. 486/5/25-S27

Drawing No. 100813

A B

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**SECTION** 

Org signed by MLP 9/04

Org signed by

checked | Org signed by

#### PLAN OF TOP SLAB

REINFORCED CONCRETE WORK TO BE DESIGNED AND CERTIFIED BY RPEQ STRUCTURAL ENGINEER TO CURRENT STANDARDS AUSTRALIA CODES.

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Revisions

Sheet A3, Datum: A.H.D.

**BURNETT SHIRE** COUNCIL

Original signed by General Manager of Engineering Operations

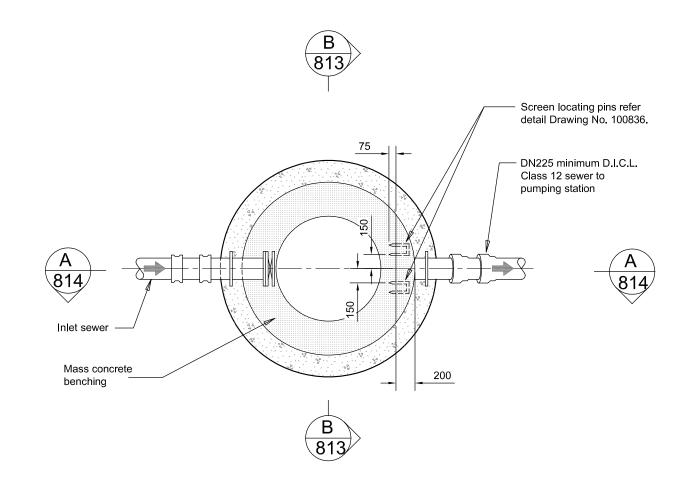
**STANDARD 1830 DIAMETER GRIT COLLECTOR MAINTENANCE HOLE DETAILS** 

Drawing No.

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100814 В

Original No. 486/5/25-S28



**PLAN SECTION** 814

(BAR SCREENS OMITTED FOR CLARITY)

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MLP 9/05 drawn Scales: Update Plan Details Org signed by MLP 9/04 Update Plan Details 2/06 checked NOT TO SCALE designed | Org signed by I C 9/04 checked Org signed by Revisions Sheet A3 , Datum: A.H.D.

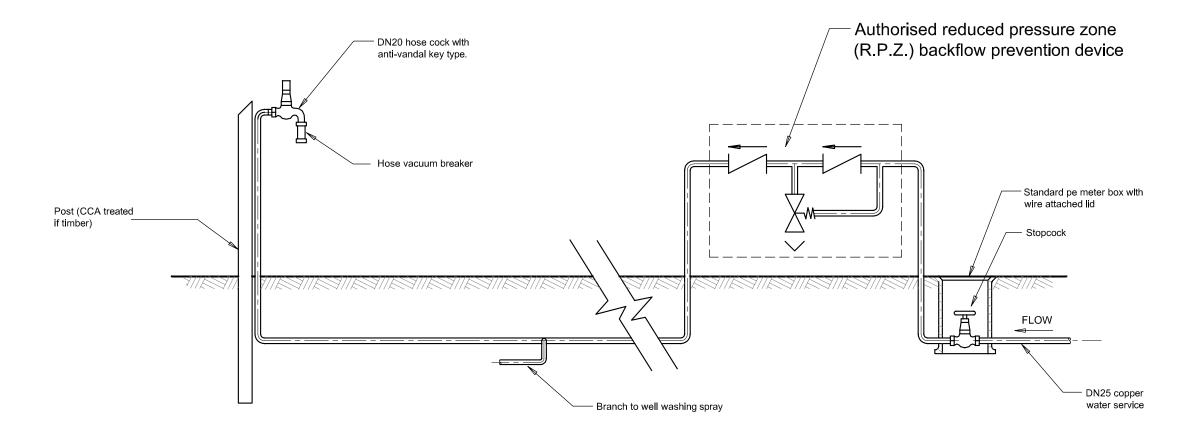
## **BURNETT SHIRE** COUNCIL

Original signed by General Manager of Engineering Operations

## **STANDARD 1830 DIAMETER GRIT COLLECTOR MAINTENANCE HOLE DETAILS**

Original No. 486/5/25-S29 Drawing No. 100815 В

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## WATER SERVICE DETAILS

NOT TO SCALE

NOTE:-REINFORCED CONCRETE WORK TO BE DESIGNED AND CERTIFIED BY RPEQ STRUCTURAL ENGINEER TO CURRENT STANDARDS AUSTRALIA CODES.

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Scales:		drawn	Org signed by MLP 9/04
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NOT TO SCALE		designed	Org signed by I C 9/04
Sheet A3 , Datum: A.H.D.	Revisions	checked	Org signed by

## **BURNETT SHIRE** COUNCIL

Original signed by General Manager of Engineering Operations

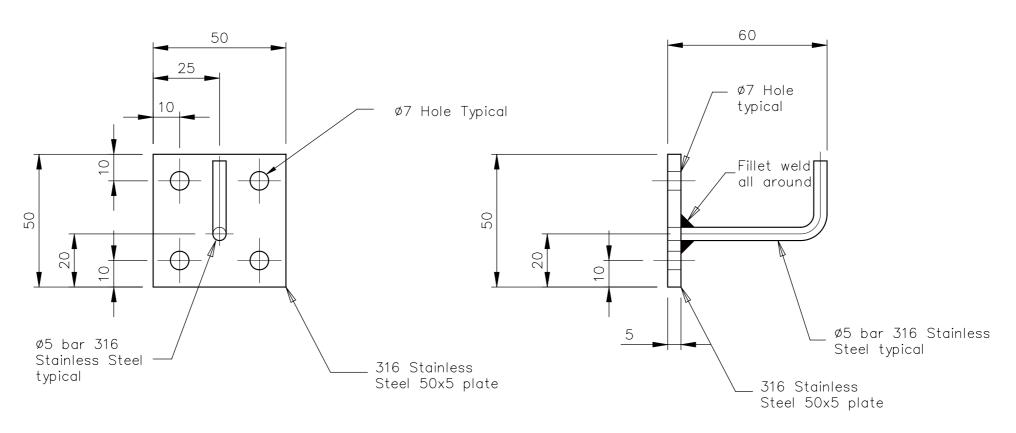


## **STANDARD 1830 DIAMETER SEWAGE PUMP STATION POTABLE WATER DETAILS**

Drawing No. 100817

Original No. 486/5/25-S31

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**FRONT ELEVATION** 

SIDE ELEVATION

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0 20 40		
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_					
	A	Update Plan Details	MLP 1/06	dwn	Org signed MLP 9/04
0				chk	Org signed
•				des	Org signed RMC IC 9/04
	Revi	sions		chk	Org signed

# BURNETT SHIRE COUNCIL

Original signed by Director of Infrastructure Services

# STANDARD 2440 DIAMETER SEWAGE PUMP STATION LEVEL PROBE BRACKET DETAILS

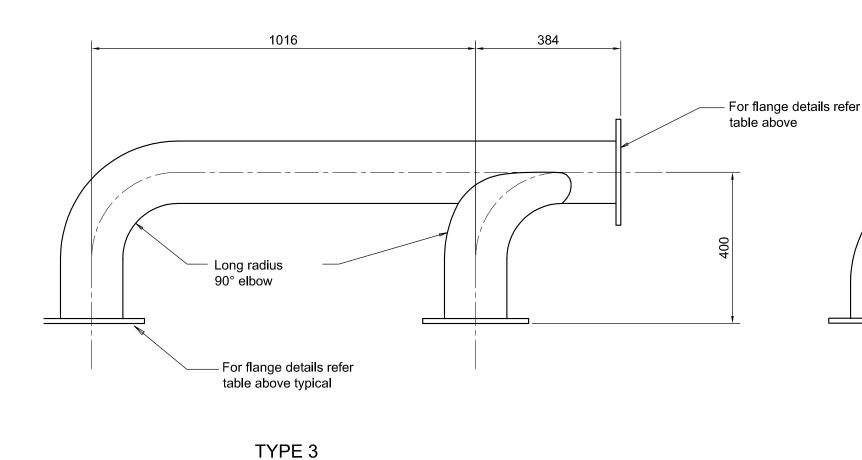
Drawing No. **100819** 

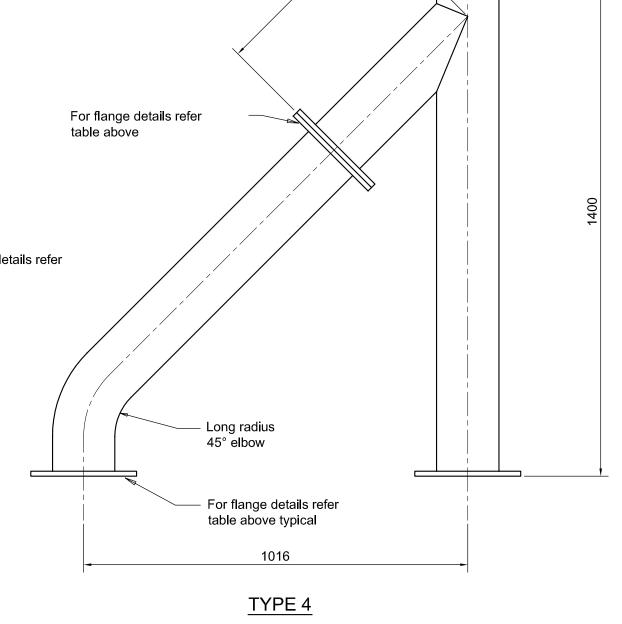
Α

HEADER SIZE	PIPE O.D.	MIN. WALL THICKNESS	FLANGE O.D.	FLANGE THICKNESS	NO. OF BOLTS	DIA. OF HOLES	P.C.D. OF HOLES
100	114	6.5	215	11	4 *	18	178
150	165	6.5	280	15	8*	18	235

OFF CENTRE DRILLING

#### **HEADER FLANGE DETAILS** (AS 4087)





# FABRICATED MILD STEEL HEADERS FOR 2440 DIA. PUMP WELLS

**FINISH** 

OUTSIDE: MEDIUM DENSITY FUSION BONDED POLYETHYLENE COATED

INSIDE: CEMENT LINED

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#### Scales: Org signed by MLP 9/04 drawn checked Org signed by NOT TO SCALE designed | Org signed by I C 9/04 checked Org signed by Revisions Sheet A3 , Datum: A.H.D.

## **BURNETT SHIRE** COUNCIL

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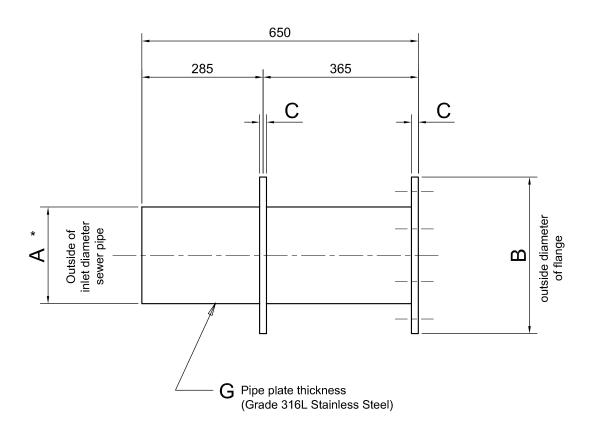


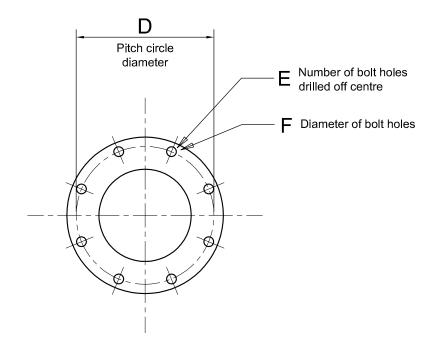
#### **STANDARD 2440 DIAMETER SEWAGE PUMP** STATION FABRICATED MILD STEEL HEADERS

Drawing No. 100822

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Original No. 486/5/25-S36





Outside diameter of wall pipe to be equal to outside diameter of inlet sewer to grit collector maintenance hole

NOMINAL DIAMETER		A *		В	С	D	E	F	G
OF PIPE	VC PIPE	DICL PIPE	PVC PIPE						
150	195	177	160	280	12	235	8	18	5
225	277	259	250	370	16	324	8	18	5
300	356	345	315	455	16	406	12	22	5

# WALL PIPE DETAIL

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		designed	Org signed by I C 9/04
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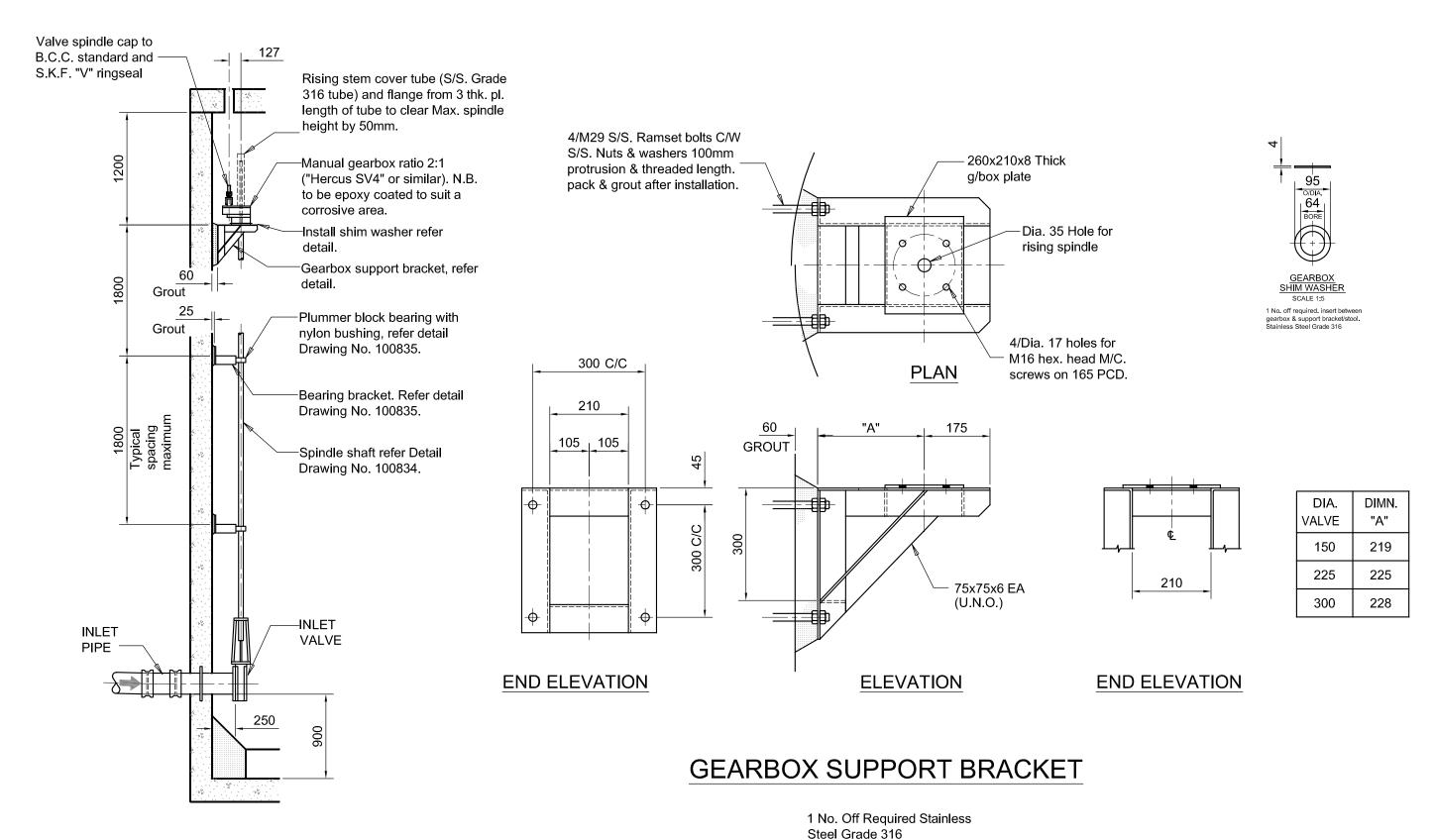
**BURNETT SHIRE** COUNCIL

Original signed by General Manager of Engineering Operations

**STANDARD 1830 DIAMETER GRIT COLLECTOR MAINTENANCE HOLE WALL PIPE DETAIL** 

Original No. 486/5/25-S46 Drawing No. 100832

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# **GENERAL ARRANGEMENT**

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NOT TO SCALE		designed	Org signed by I C 9/04
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# BURNETT SHIRE COUNCIL

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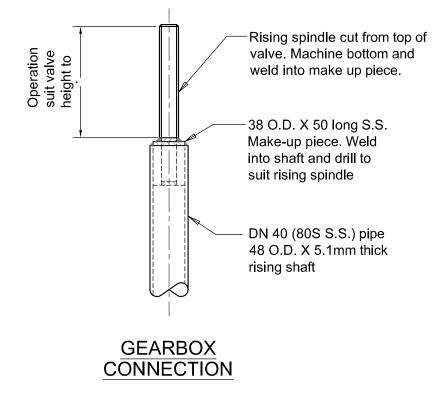
## GRIT COLLECTOR MAINTENANCE HOLE INLET VALVE GENERAL ARRANGEMENT

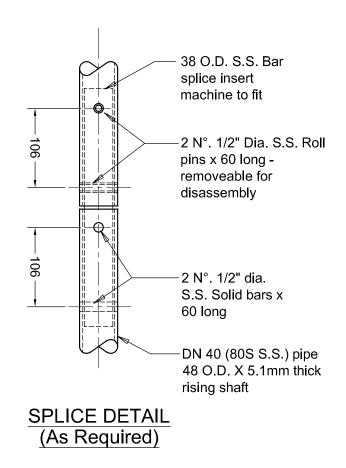
Drawing No. 100833

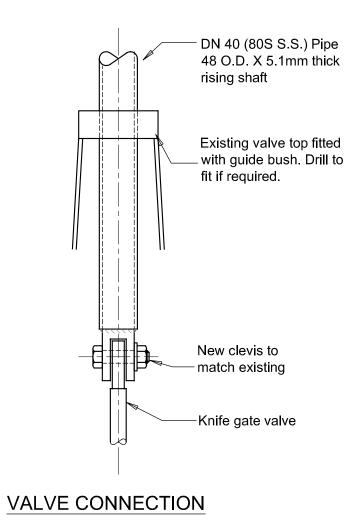
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Original No. 486/5/25-S47

00900 100900\100922 dug 21/12/2005 2:53:40 DM







## SPINDLE SHAFT DETAILS

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NOT TO SCALE		designed	Org signed by I C 9/04
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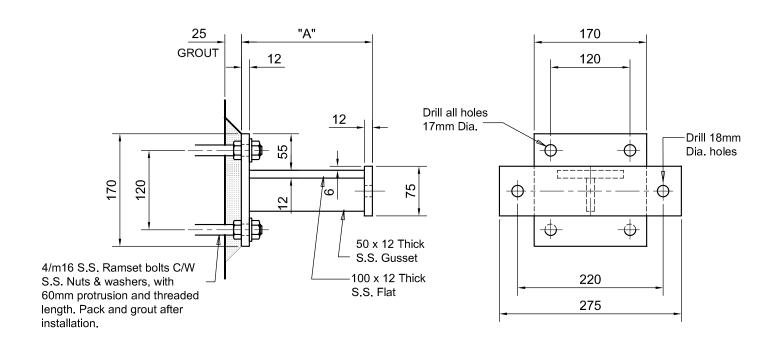
Original signed by General Manager of Engineering Operations

**GRIT COLLECTOR MAINTENANCE HOLE INLET VALVE SPINDLE** SHAFT DETAILS.

Original No. 486/5/25-S48 Drawing No.

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100834



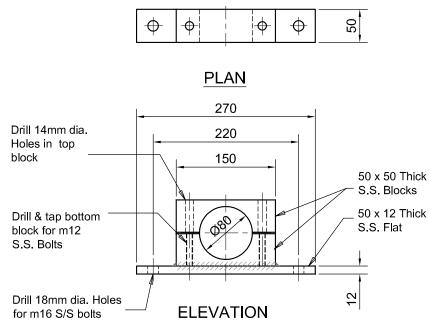
**ELEVATION** 

**END ELEVATION** 

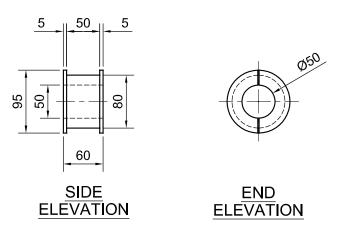
## **BEARING BRACKET**

No. Off required - Depends on MH depth Stainless Steel Grade 316

DIA. VALVE	DIMN. "A"
150	192
225	198
300	201



## PLUMMER BLOCK BEARING



To suit 50mm shaft

## PLUMMER BLOCK BUSH

N.B.: NYLON BUSHING MATERIAL TO BE USED.

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NOT TO SCALE		designed	Org signed by I C 9/04
Sheet A3 , Datum: A.H.D.	Revisions	checked	Org signed by

# BURNETT SHIRE COUNCIL

Original signed by General Manager of Engineering Operations

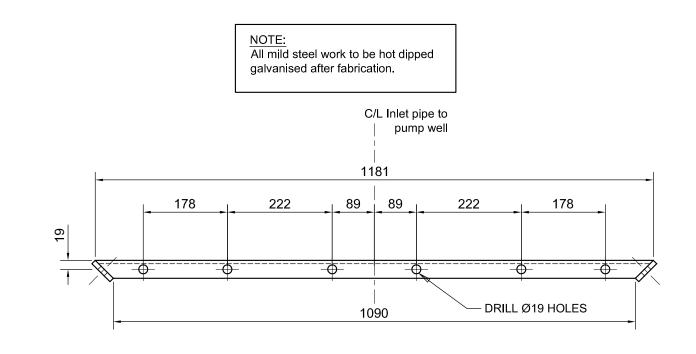


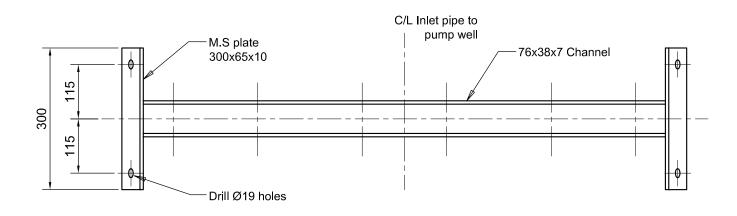
## GRIT COLLECTOR MAINTENANCE HOLE INLET VALVE BEARING SUPPORT DETAILS.

Drawing No. **100835** 

Original No. 486/5/25-S49

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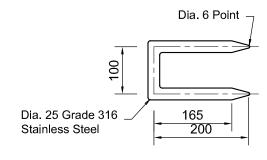


**ELEVATION** 

**PLAN** 

## SCREEN SUPPORT BRACKET DETAIL

1 No. Off required



#### SCREEN LOCATING PIN

2 No. Off Required

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#### Scales: Org signed by MLP 9/04drawn checked Org signed by NOT TO SCALE designed | Org signed by I C 9/04 checked Org signed by Revisions Sheet A3, Datum: A.H.D.

## **BURNETT SHIRE** COUNCIL

Original signed by General Manager of Engineering Operations

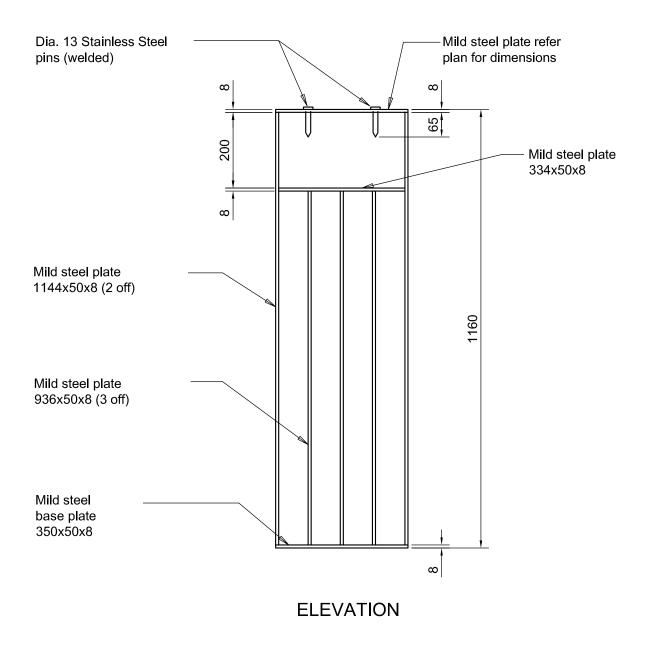


**GRIT COLLECTOR** MAINTENANCE HOLE INLET **VALVE BAR SCREEN DETAILS.** 

Drawing No. 100836

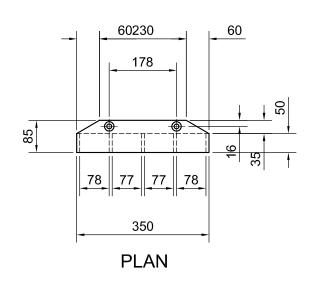
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Original No. 486/5/25-S50



#### NOTE:

All mild steel work to be hot dipped galvanised after fabrication.



# **SCREEN DETAIL**

1 No. off required

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		drawn	Org signed by MLP 9/04
		checked	Org signed by
NOT TO SCALE			, ,
		designed	Org signed by I C 9/04
Sheet A3 , Datum: A.H.D.	Revisions	checked	Org signed by

# BURNETT SHIRE COUNCIL

Original signed by General Manager of Engineering Operations

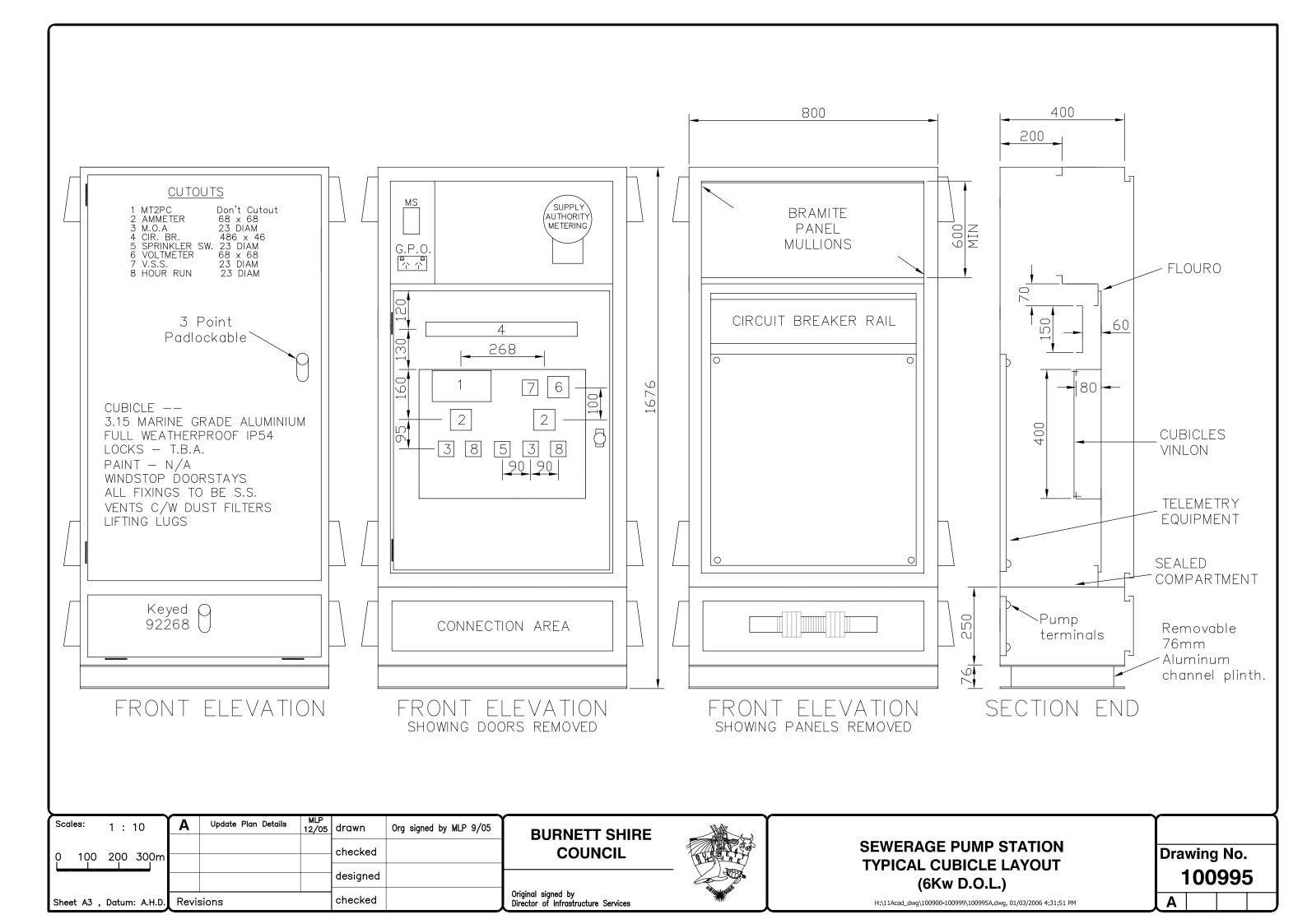


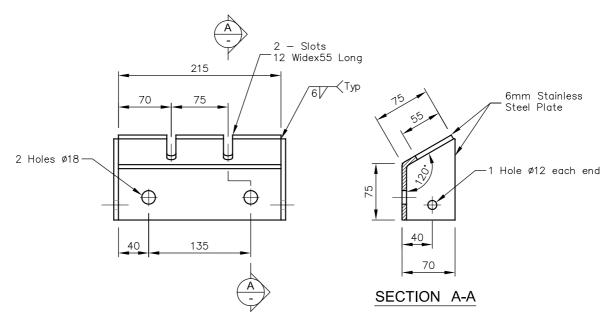
## STD 1830 DIAMETER GRIT COLLECTOR MAINTENANCE HOLE INLET VALVE BAR SCREEN DETAILS.

Drawing No. **100837** 

Original No. 486/5/25-S51

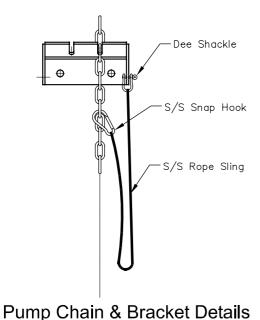
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#### Pump Chain Bracket

Scale 1:5



Scale 1:10

#### **NOTES**

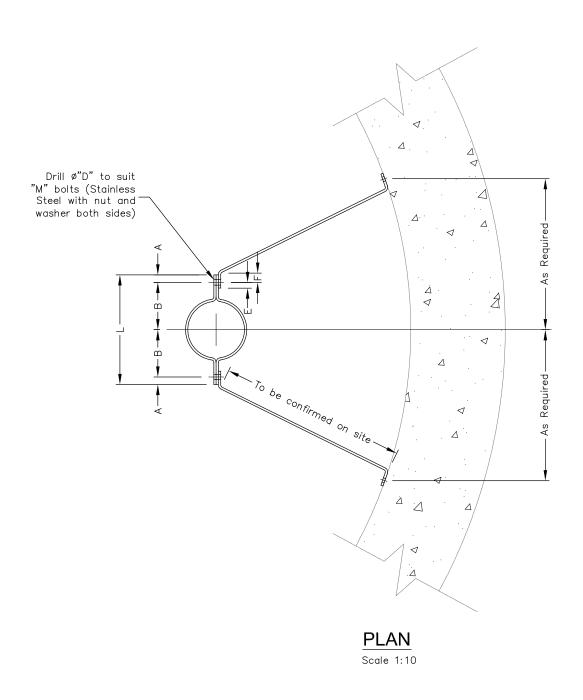
- 1. The lifting chain offered must comply with statutory authorities requirements for industrial lifting.
- 2. The pump lifting chain shall be PWB anchor grade "L" lifting chain, or approved equivalent, hot dipped galvanized finish, manufactured to AS2321-1979.
- 3. The chain shall be sized to cary the weight of the pump, Taking into account load carrying reductions for angled two leg slings. The minimum chain size shall be 10mm for small pumps, but larger pumps will require 12mm or 16 mm, Partially where a lower bridge is attached to two eyebolts.
- 4. The dee shackles used shall be PWB anchor grade "S". or approved equivalent, dot dipped galvanized finish, manufactured to comply with AS 2741—1992—Shackles.
- 5. Eyebolts provided by manufacturers as part of the lifting arrangement to equipment shall be manufactured to comply with AS 2317 Collared eyebolts.

Scales: 1 : 5		drawn	MLP 12/05	BURNETT SHIRE
0 50 100 150mm		checked		COUNCIL
		designed	MLP 12/05	Director of Infrastructure Services
Sheet A4 , Datum: A.H.D.	Revisions	checked		date



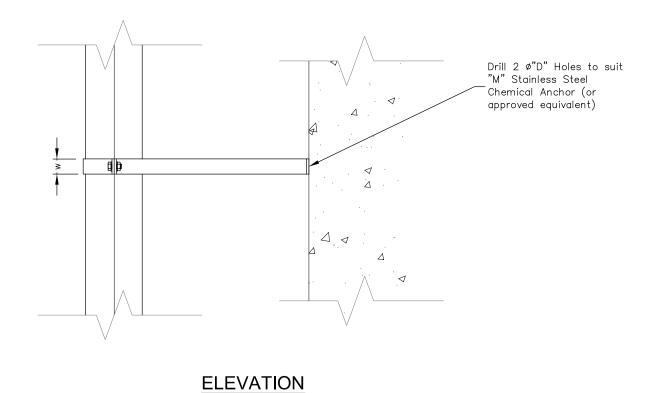
# B.S.C. STANDARD DRAWINGS FOR SEWAGE PUMP STATIONS CHAIN BRACKET DETAILS.

Drawing No. **101025** 



#### <u>NOTES</u>

- 1. All welding to be 6mm Continuos fillet and conform to AS/NZS 1554.1:2000 : structural steel welding—welding of steel structures.
- 2. Stainless Steel to AS 2837—1986 : Wrought Alloy Steels Stainless Steel bars and semi—finished products grade 316 unless otherwise noted.



Nominal Bore of Pipe	А	В	L	Е	F	G	Н	R	Т	w	М	ØD
50	15	60	150	13	20	15	25	5	3	25	M10	12
80	20	80	200	15	25	20	30	7	5	40	M12	14
100	20	95	230	15	25	20	30	7	5	40	M12	14
150	20	125	290	15	25	20	30	8	6	40	M12	14
200	25	155	360	20	30	25	35	8	6	50	M16	18
225	25	170	390	20	30	25	35	12	10	50	M16	18
250	25	190	430	20	30	25	35	12	10	50	M16	18
300	25	220	490	20	30	25	35	12	10	50	M16	18

Scale 1:10

# Scales: 1: 10 drawn Org signed by MLP 12/05 0 100 200 300mm checked designed Org signed by MLP 12/05 Sheet A3 , Datum: A.H.D. Revisions checked

# BURNETT SHIRE COUNCIL

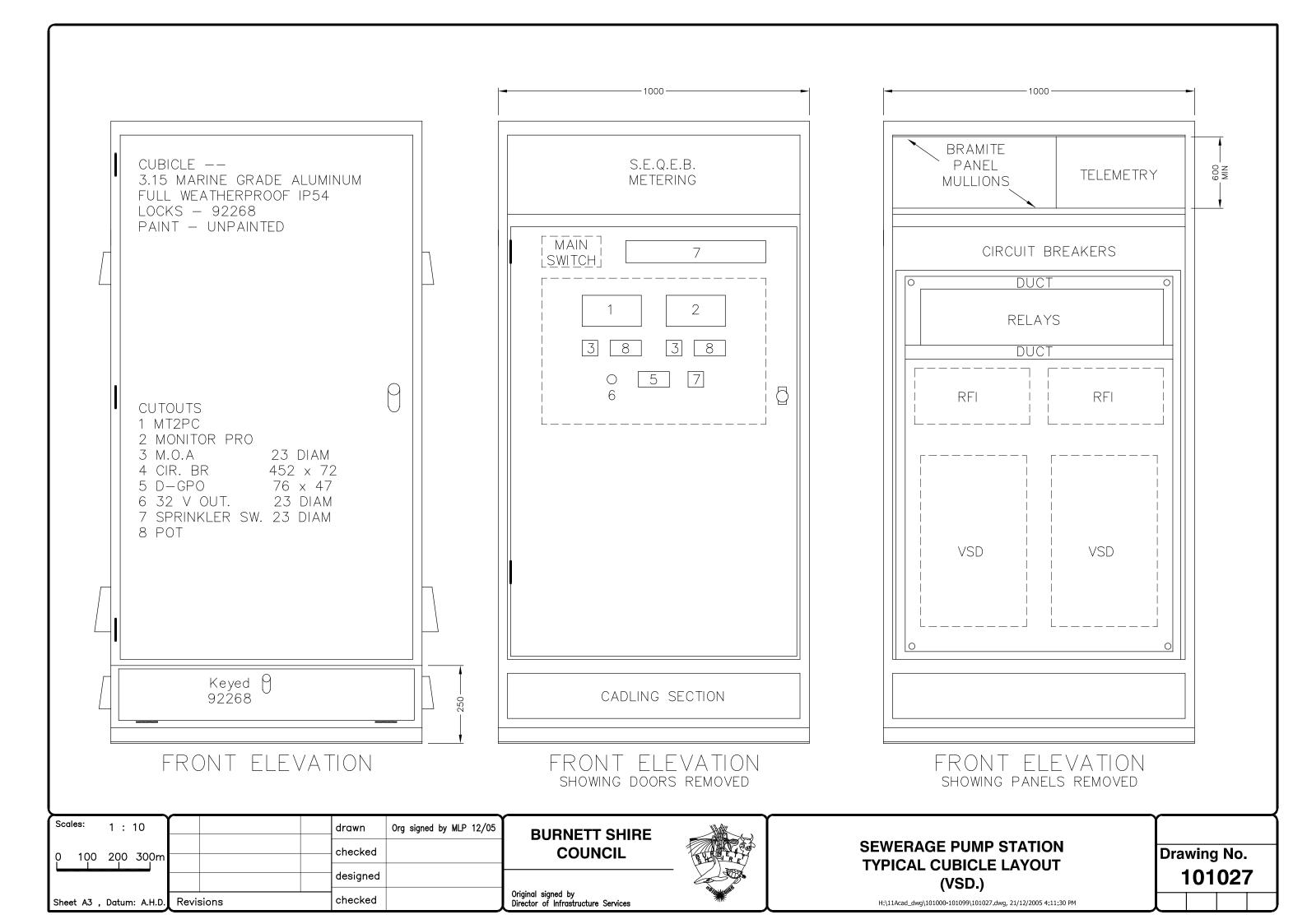
Original signed by Director of Infrastructure Services

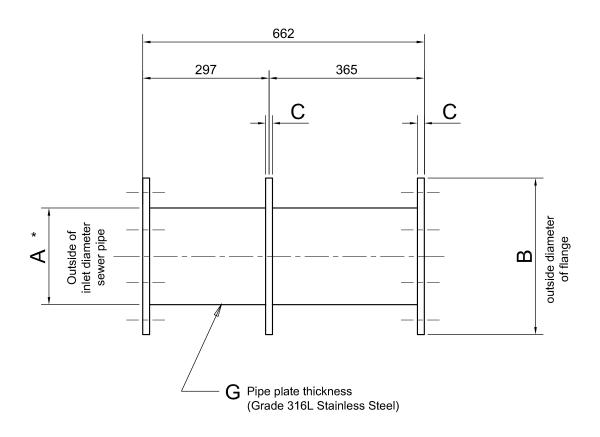


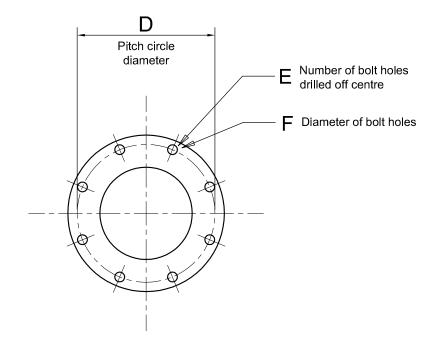
# B.S.C. STANDARD DRAWINGS FOR SEWAGE PUMP STATIONS PIPE SUPPORT BRACKET DETAILS.

Drawing No. **101026** 

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\* Outside diameter of wall pipe to be equal to outside diameter of inlet sewer to grit collector maintenance hole

NOMINAL DIAMETER	A*		В	С	D	E	F	G
OF PIPE	DICL PIPE	PVC PIPE						
150	177	160	280	12	235	8	18	5
225	259	250	370	16	324	8	18	5
300	345	315	455	16	406	12	22	5

# WALL PIPE DETAIL

Scales:		drawn	Org signed by MLP 12/05
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NOT TO SCALE		designed	Org signed by I C 9/04
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# BURNETT SHIRE COUNCIL

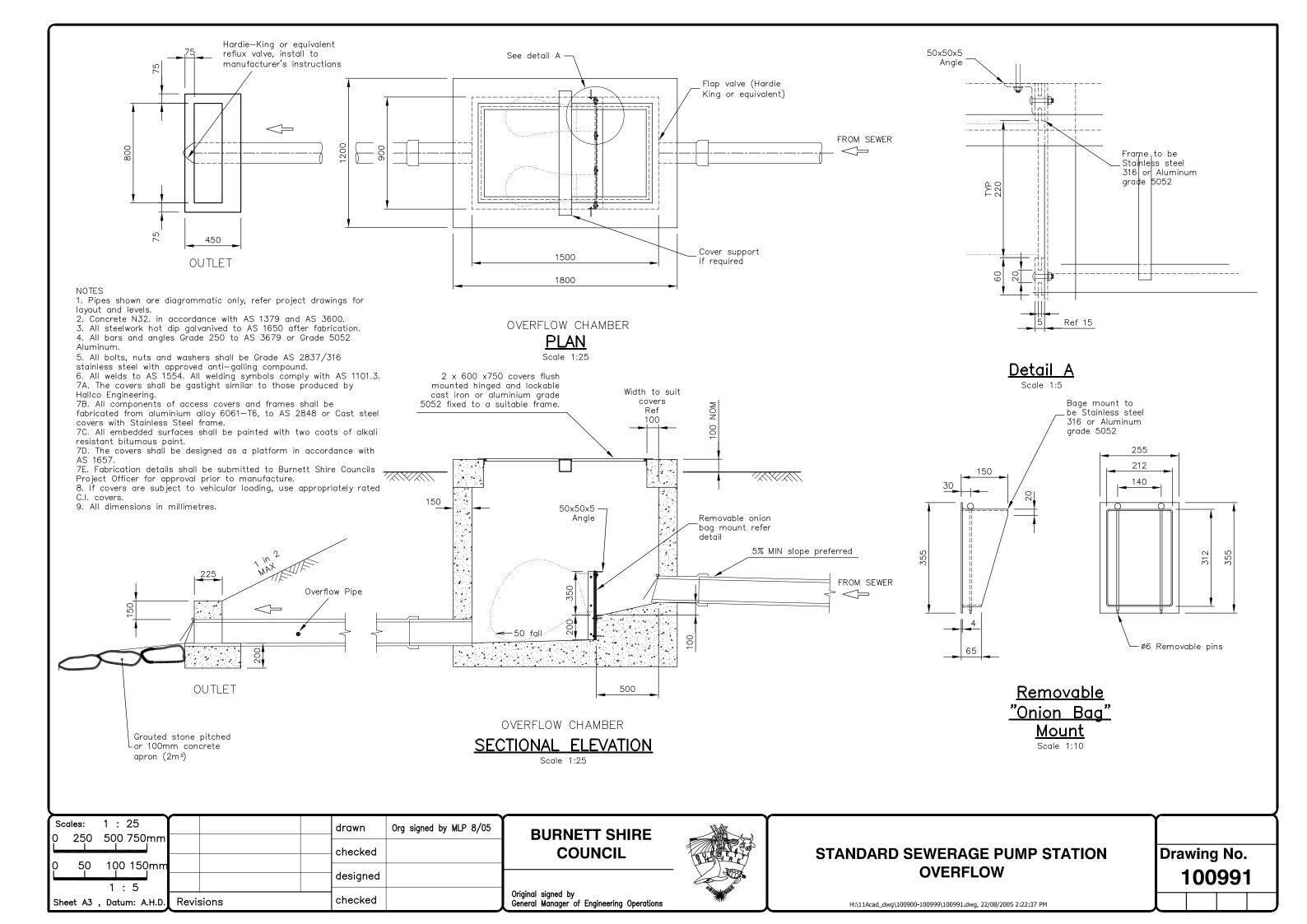
Original signed by General Manager of Engineering Operations



## STANDARD 2440 DIAMETER SEWAGE PUMP STATION HOLE WALL PIPE DETAIL

Drawing No. **101028** 

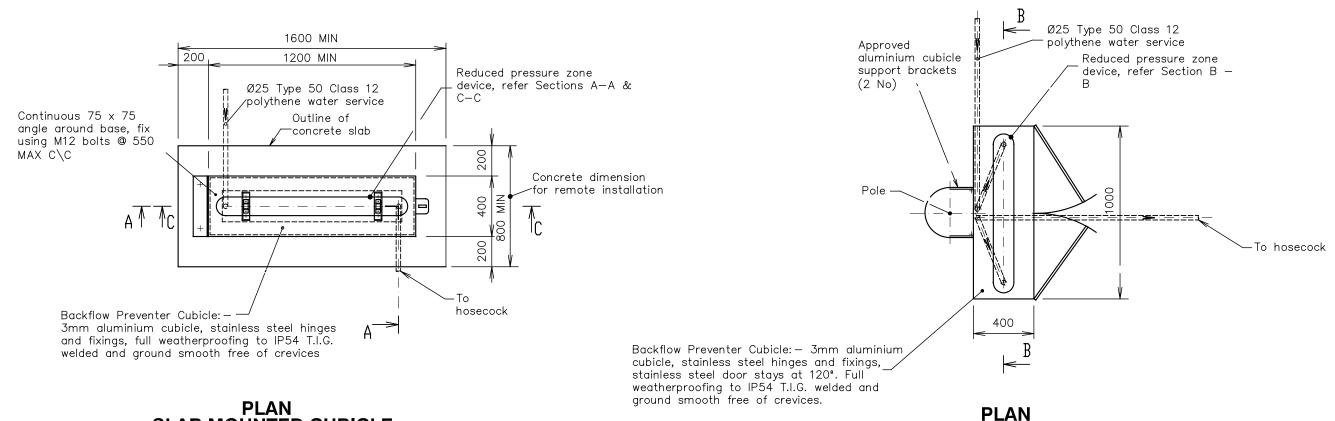
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# BURNETT SHIRE COUNCIL STANDARD DRAWINGS

# **WATER SUPPLY**

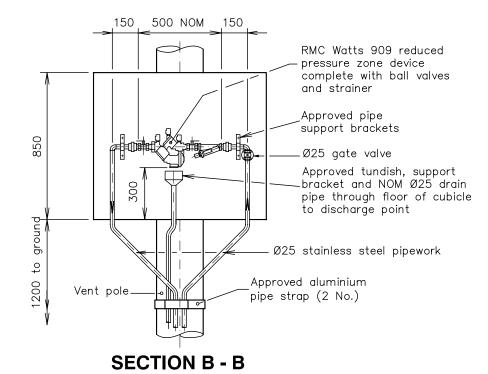
Number	Title / Topic
W400	Backflow Prevention Device Slab and Pole Mounted Device
W401	Burnett Shire Council Hydrant Identification Standard.



PLAN SLAB MOUNTED CUBICLE

RMC Watts 909 reduced pressure zone device complete with ball valves and strainer -250 500 NOM 250 Stainless steel union-Stainless steel Approved pipe Ø25 stainless support brackets steel pipework Ø25 gate valve Approved tundish, support Fabricated aluminium or bracket and NOM Ø25 stainless steel supports, drain pipe through wall of fix using approved cubicle to discharge point 2-M12 anchors Ø25 stainless HASP/CLASP steel pipework Locking Clip 316 Stainless Steel Butt Hinge F82 fabric centrally placed, 50 edge cover Approved Ø25 stainless steel to Ø25 polythene 5 € Ø25 Type 50 Class 12 connector polythene pipework To hosecock **SECTION A - A** Ø25 Type 50 Class 12 Slab details similar for pole mounted cubicle

# **POLE MOUNTED CUBICLE**



- 1. Concrete S32 in accordance with AS 1379 and AS 3600.
- 2. Reinforcement fabric to AS 1304.
- Stainless steel Grade AS 2837/316.
- 4. Polythene pipework to AS 1159. 5. Aluminium Sheet 5083-H321,
- Extruded sections 6061-T6, to AS 2848.
- 6. All dimensions in millimetres.

Scales: drawn Org signed by MLP 11/04 NOT TO SCALE checked designed checked Revisions Sheet A3 , Datum: A.H.D.

## **BURNETT SHIRE** COUNCIL

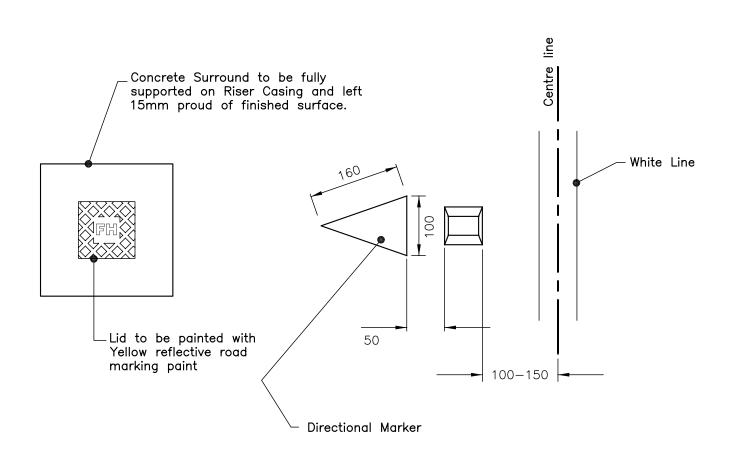
Original signed by General Manager of Engineering Operations



#### **BACKFLOW PREVENTION DEVICE SLAB AND POLE MOUMTED DEVICE**

Drawing No. **W400** 

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#### Hydrant Marking System To Include:

- Cats Eye
- Directional Marker
- Painted Lid

# PLAN VIEW NOT TO SCALE

Blue Retro—reflective Pavement Marker. (see Note 4)
Fixed to road surface on Hydrant side of
road centre line marking

Fix to road surface with high strength
impact epoxy adhesive or bituminous pad

#### Notes:

- 1. All Dimensions In Milimetres.
- 2. Type, Location And Orientation Of Markers To Be In Accordance With Relevant Burnett Shire Council Requirements.
- 3. Locate Markers At Right Angles To The Main
- 4. Raised Pavement Retro-flective Markers To Comply With As 1906.3-1992
- 5. Markers And Directional Arrows To Be Installed To Manufacturers Specifications

# SECTIONAL VIEW NOT TO SCALE

# NOT TO SCALE | drawn | Org signed by CD 11/04 | | checked | Org signed by RT 11/04 | | designed | Org signed by CD 11/04 | | Sheet A3 | Revisions | Checked | Org signed by RT 11/04 |

# BURNETT SHIRE COUNCIL

Original signed by General Manager of Engineering Operations

# BURNETT SHIRE COUNCIL HYDRANT IDENTIFICATION STANDARD

(flexible pavement) As per Manufacturers

Specifications.

Drawing No. **W401** 

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