NOTES

GENERAL
1. INVERT LEVELS AND REFERENCE POINT DATA ARE SPECIFIED IN THE DESIGN DRAWINGS.
2. INLET/OUTLET PIPES MAY ANCHOR STRUCTURE AT DRAIN ANGLES.
3. THIS STRUCTURE IS NOT APPROPRIATE FOR DIRECT CONNECTION TO WATER CORPORATION DRAIN UNLESS PROVIDED WITH SLIT TRAP OR INCORPORATING SURFACE DRAINAGE HAS BEEN TRAPPED UPSTREAM.
4. FOR INFORMATION RELATING TO GROUNDS PREPARATION OF STRUCTURES REFER TO MAIN ROADS SPECIFICATION No. 405 DRAINAGE STRUCTURES.

CONCRETE & REINFORCEMENT
5. ALL IN-SITU CONCRETE SHALL BE CLASS N22 IN ACCORDANCE WITH AS 4117.
6. ALL IN-SITU CONCRETE CORNERS SHALL HAVE A 20 CHAMFER UNLESS OTHERWISE NOTED.
7. CEMENT MortAR SHALL ConsIST OF ONE PART PORTLAND CEMENT OR SIMILAR AND THREE PARTS SAND.
8. SLR REINFORCEMENT SHALL CONFORM WITH HARD DRAWN PAPER TO AS/NZS 5276.
9. MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE 50.

LINER
10. THE PRECAST LINER SHALL BE REINFORCED CONCRETE TO AS/NZS 4450 AND TO SPECIFICATION USE.
11. THE MAXIMUM INLET/OUTLET PIPE OUTSIDE DIAMETER MUST BE LESS THAN 50% OF THE LINER INTERNAL DIAMETER. SEE TABLE 2.
12. MINIMUM SPACE OF 500 BETWEEN HOLES IN LINER.
13. MINIMUM OF 50% OF LINER SHALL BE ELONGATED IN ANY HORIZONTAL PLANE.
14. HOLES TO BE PUNCHED/CUT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION.
15. THE LINER SHALL HAVE EQUITABLE PROPERTIES AND REINFORCEMENT OF CLASS 2 REP EXCEPT THAT THE REINFORCEMENT SHALL BE CIRCULAR.
16. ALL GAPS AND VOIDS BETWEEN AND/OF AND SURROUNDING THE LINER AND COVER SLAB SHALL BE SEAL BEEN WITH N22 CONCRETE. SLEEPING PAVING TAPE SHALL BE USED WHERE THE CONCRETE IS UNDER THE ROAD SEATED SURFACE. REFER TO Dwg No. 200231-022 FOR DETAILS.

STEP IRONS
17. FOR STRUCTURES DEEPER THAN 900, STEP IRONS OR PREFabRICATION GALVANISED STEEL LADDER SHALL BE FITTED. THE LADDER SHALL Be FIXED WITH STAINLESS STEEL MASTERY ANCHORS IN ACCORDANCE WITH AS 237.8.
18. ORIENTATE STEP IRONS OR LADDER TO ENABLE EASY ACCESS AND TO FACE ONCOMING TRAFFIC.

OPEN GRADED ASPHALT
19. REFER TO DRAWING 20231-022 IF OPEN GRADED ASPHALT IS USED FOR THE FINISHED SURFACE.

SUPERSEDED DRAWINGS
20. THIS DRAWINGS SUPERSEDES DRAWINGS No31-5557 & No31-5610.

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TABLE 1
<table>
<thead>
<tr>
<th>STRUCTURE TYPE</th>
<th>PIT DEPTH</th>
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<tbody>
<tr>
<td>TGT</td>
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<tr>
<td>SGT</td>
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TABLE 2
<table>
<thead>
<tr>
<th>LINER Ø</th>
<th>MAX. Ø PIPE CONNECTING TO LINER</th>
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<tr>
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<tr>
<td>No. 105</td>
<td>No. 625</td>
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<tr>
<td>No. 120</td>
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</table>

DRAWING REFERENCES
- STRUCTURE SELECTION GUIDE: 200231-084
- COVER TYPE GT (RECTANGULAR): 200231-105
- COVER TYPE GT (ROUND): 200231-106
- STEP IRON DETAILS: 200231-116
- GRATE AND FRAME: 200231-198
- PIT SLIT TRAP (IF REQUIRED): 200231-121

DRAINAGE STANDARD DRAWINGS
- TGT & SGT STRUCTURES
- CONSTRUCTED WITH LINERS

ROAD AND TRAFFIC ENGINEERING BRANCH
- MAIN ROADS WESTERN AUSTRALIA
- TECHNOLOGY AND ENVIRONMENT DIRECTORATE
- DRAWING TYPE: 9006
- DRAWING NO: 9002
- DRAWING DATE: 200231-094-3
- APPROVED: 200231-094-3
- REVIEWED: 67-O8-52
- DRAWN BY: J. KIRKHAM/THOB
- CHECKED BY: D. N. R. W. M. W. M. W.
- APPROVED BY: A. R. W. M. W. M. W.