



NOTES:

1. ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH AS3800 CURRENT EDITIONS WITH AMENDMENTS.
2. CONCRETE CHARACTERISTICS.

| ELEMENT | COMPRESSIVE STRENGTH F _{CD} (MPa) | TENSILE F _{TD} (MPa) | SLIP RESISTANCE R ₁₀ (%) | MAX AGE DAYS |
|----------|---|----------------------------------|--|-----------------|
| PAVEMENT | 48 | 100 | 25 | |
3. NO 'BRECQIA' TYPE AGGREGATE IS TO BE USED.
4. CEMENT TO BE TYPE GP TO AS3807 U.N.O. MAX CONCRETE SHRINKAGE TO BE 760 TO AS1072.
5. NO ADMIXTURES ARE TO BE USED WITHOUT THE APPROVAL OF THE ENGINEERS.
6. A VIBRATOR IS TO BE USED FOR THE COMPACTION OF ALL CONCRETE.
7. ALL CONCRETE PLACEMENT TO UTILISE ALIPHATIC ALCOHOL APPLIED TO THE CONCRETE AFTER THE INITIAL SPORED. CONCRETE SHALL BE CURED IN ACCORDANCE WITH AS1013 FOR A MINIMUM OF 7 DAYS AFTER POURING UTILISING AN APPROVED, NON-OIL BASED CURING COMPOUND IN ACCORDANCE WITH AS1013.
8. ALL CONCRETE SHALL BE SUBJECT TO PROJECT CONTROL SAMPLE AND TESTING TO AS 3800.
9. REINFORCEMENT QUALITY

| SYMBOL | DENOTES | STRENGTH GRADE | DUCTILITY CLASS | TO COMPLY WITH |
|--------|-----------------|----------------|-----------------|----------------|
| % | STAINLESS STEEL | S52 | LOM | AS 4781 |
10. FABRIC LAP
11. MINIMUM TOP COVER OF 50mm.
12. ALL CONCRETE TO BE BROOM FINISHED FOR NON SLIP RESISTANCE AS PER AUSTRALIAN STANDARDS.
13. THE THICKNESS OF ANY DECORATIVE SURFACING, WHERE APPROVED, IS ADDITIONAL TO THE CONCRETE THICKNESS SPECIFIED.
14. ALL EXISTING ASPHALT OR CONCRETE PAVEMENTS TO BE SAW CUT.
15. ROADWAY MATERIAL EXCAVATED ALONG THE FRONT OF THE CROSSING MUST BE REINTEGRATED TO ORIGINAL PAVEMENT STANDARD AND AS 1288.1.1 STANDARD METHOD FOR CONCRETELESS SOILS.
16. PAVEMENT SUBGRADE TO ACHIEVE THE FOLLOWING MINIMUM COMPACTION VALUES.

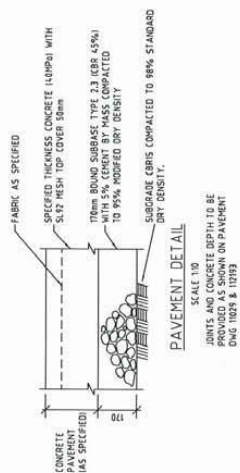
| LOCATION | CONCRETE | CONCRETELESS |
|--------------------|----------|--------------|
| PAVEMENT | 95% | 95% |
| 100mm BELOW | 95% | 95% |
| 100mm TO TOP 200mm | 95% | 95% |
17. WHERE THE ABOVE VALUES ARE DETERMINED IN ACCORDANCE WITH THE AS 1288.1.1 STANDARD METHOD FOR CONCRETELESS SOILS, ALL SUB-BASE MATERIALS SHALL BE COMPACTED AT OPTIMUM MOISTURE CONTENT OF (OR - 2%) TO ACHIEVE A DRY DENSITY IN ACCORDANCE WITH A.S. 1288.1.2.1 OF NOT LESS THAN THE FOLLOWING:

| LAYER | TOP-BASE COURSE | BASE COURSE |
|--------------------|-----------------|-------------|
| 100mm BELOW | 95% | 95% |
| 100mm TO TOP 200mm | 95% | 95% |
18. VARIATIONS TO THE DESIGNS SHOWN ARE SUBJECT TO APPROVAL FROM THE PORT OF BRISBANE CORPORATIONS ENGINEERING MANAGER OR DELEGATE.
19. KERB TAPER TREATMENTS ARE TO BE USED ON ALL STANDARD CROSSINGS. THE 60mm KERB TAPER TREATMENTS ARE TO BE ADDED TO THE EXTENT OF CROSSOVERS SHOWN ON LAYOUT DETAILS.

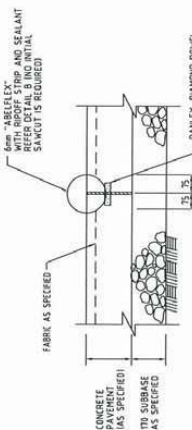
FOR RPEQ CERTIFICATION REFER
TO DRAWING No. 112405/Rgv A

| NO. | REVISION | DATE | BY | APP. | DATE |
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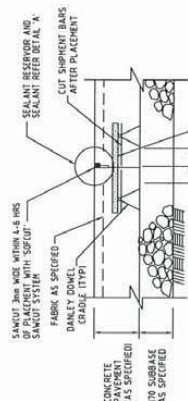
SCALE: 1: 100 (Before Reduction)

PAVEMENT DETAIL
SCALE 1:10

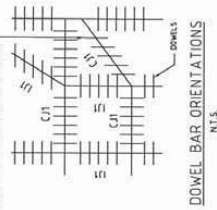
JOINTS AND CONCRETE DEPTH TO BE PROVIDED AS SHOWN ON PAVEMENT Dwg 112405 & 112093

ISOLATION JOINT TYPE 'I' (I/J)
SCALE 1:10
ALSO TRANSVERSE STOP WORK JOINT

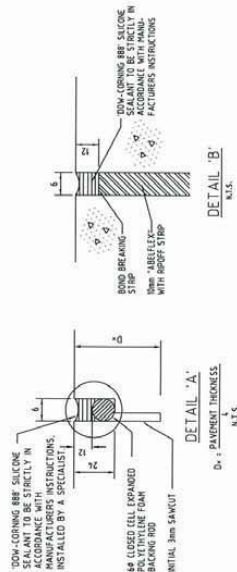
SCALE 1:10

CONTRACTION JOINT TYPE 'C' (C/J)
SCALE 1:10

SCALE 1:10

DOWEL BAR ORIENTATIONS
N.T.S.

WHERE CONTRACTION JOINTS ARE SEEN TO THE MAIN JOINTING LAYOUT, ENSURE THAT THE DOWELS ARE ALIGNED PARALLEL TO THE MAIN JOINTING LAYOUT.

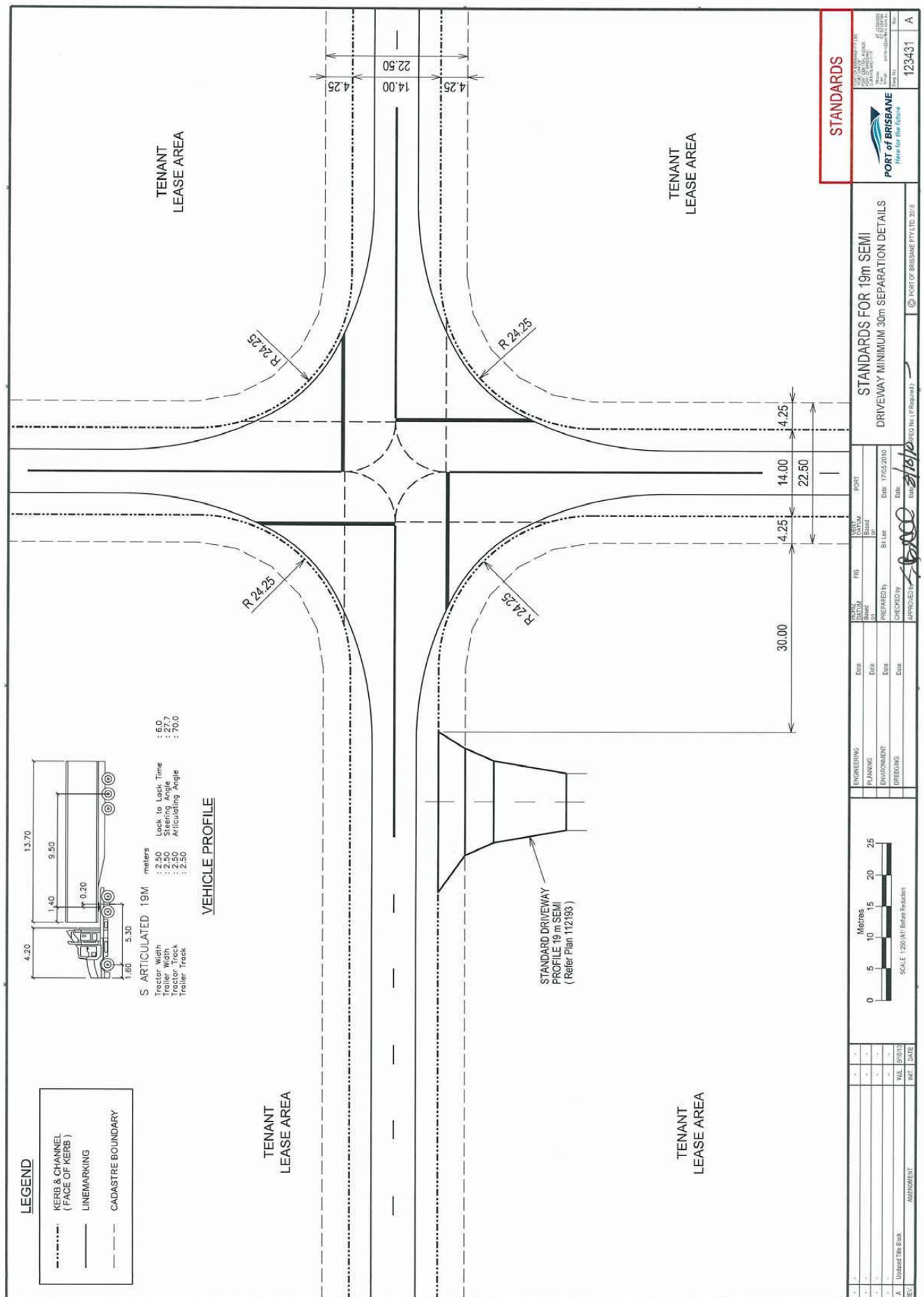
DETAIL 'A'
N.T.S.
D = PAVEMENT THICKNESSDETAIL 'B'
N.T.S.

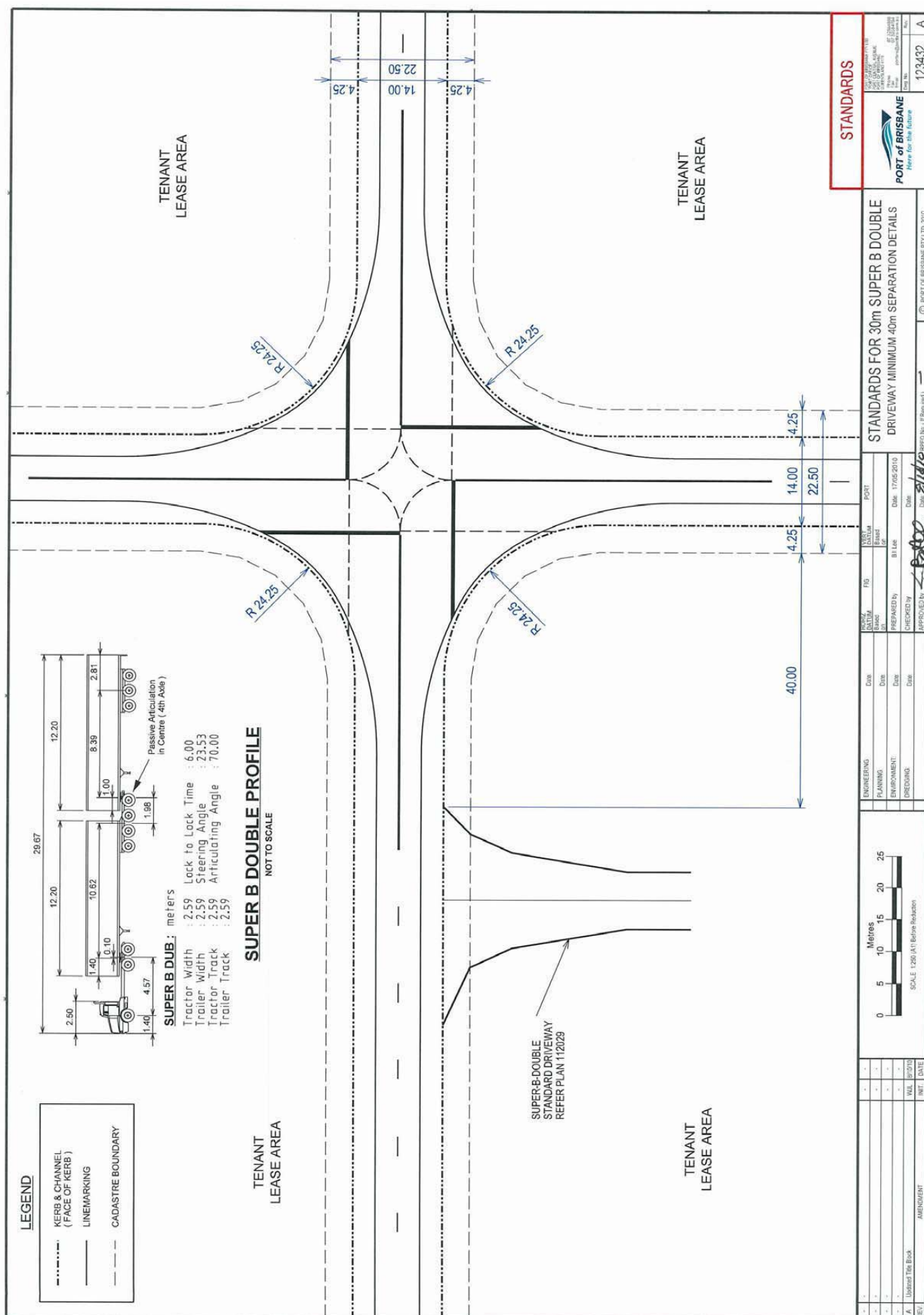
FOR CONSTRUCTION




STANDARD VEHICLE CROSSING DETAIL
NOTES AND JOINTING DETAILS

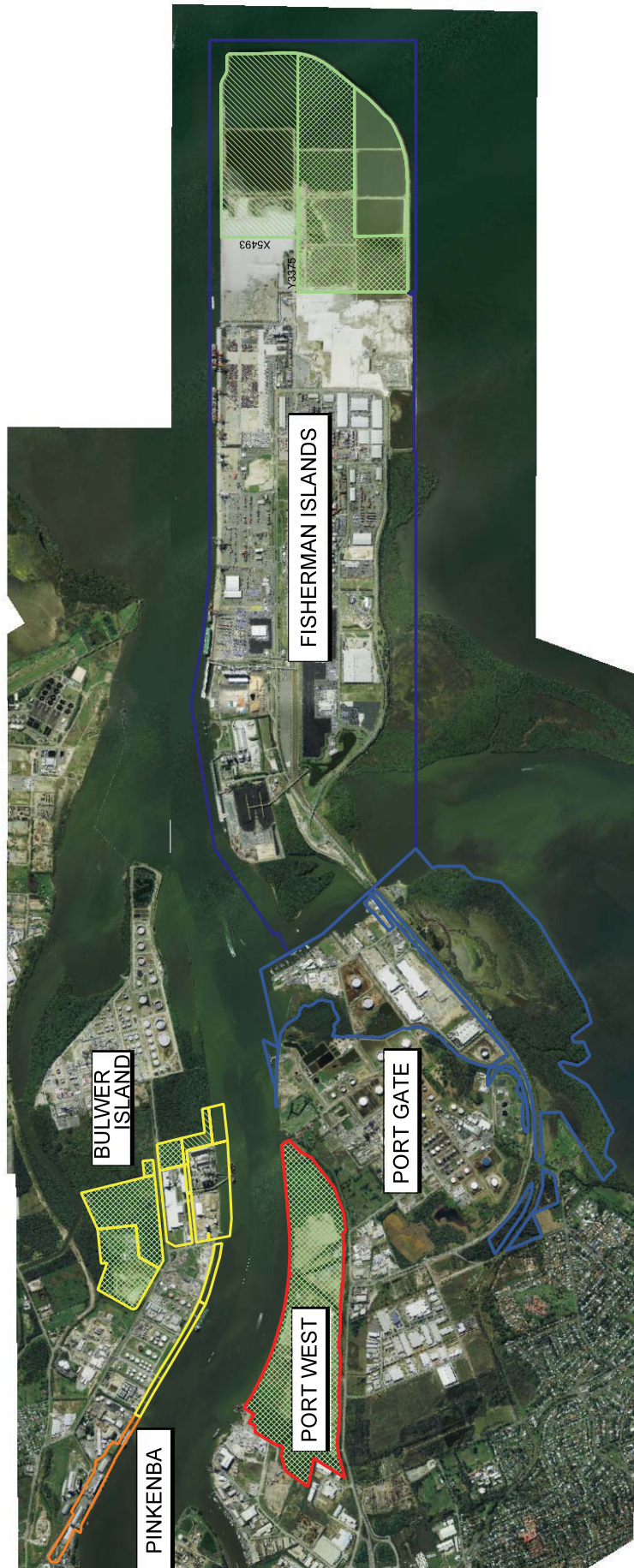
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| ENGINEERING | Date |
| PLANNING | Date |
| ENVIRONMENT | Date |
| DREDGING | Date |





| AREA | TABLE 1 PORT SPECIFIC DEMAND RATES | LEGEND |
|------|------------------------------------|---|
| 1 | 8 ET/ha |  |
| 2 | 10 ET/ha |  |
| 3 | 0.5 ET/ha |  |



| | | | |
|---|---|--|--|
|  PORT OF BRISBANE <small>TRADING AND LOGISTICS</small> | | 122292 B <small>Number</small> | |
| INFRASTRUCTURE DEMAND RATES PORT OF BRISBANE LAND HOLDINGS 2010 | | | |
| PREPARED BY K TUCKER | DATE 2/11/2009 | | |
| CHECKED BY - | DATE - | | |
| APPROVED BY - | DATE - | | |
| GDA <small>Geographic Data Australia</small> | MGA <small>Map Grid of Australia</small> | | |
| DATUM Based on GDA | DATUM Based on AHD | | |
| SCALE 1:1 000 (A3) | | | |
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