

## DAFTAR ISI

|                                      |          |
|--------------------------------------|----------|
| Lembar Pengesahan                    |          |
| Lembar Persetujuan                   |          |
| Surat Pernyataan                     |          |
| Kata Pengantar .....                 | i        |
| Daftar Isi .....                     | iii      |
| Daftar Tabel .....                   | vi       |
| Daftar Gambar .....                  | vii      |
| Daftar Lampiran.....                 | viii     |
| <b>Bab I Pendahuluan .....</b>       | <b>1</b> |
| 1.1 Latar Belakang .....             | 1        |
| 1.2 Identifikasi Masalah.....        | 3        |
| 1.3 Batasan Masalah .....            | 3        |
| 1.4 Rumusan Masalah .....            | 4        |
| 1.5 Tujuan Penelitian .....          | 4        |
| 1.6 Manfaat Penelitian .....         | 4        |
| 1.7 Metodologi Penelitian.....       | 5        |
| <b>BAB II Landasan Teori.....</b>    | <b>6</b> |
| 2.1 Pengertian Perkerasan Kaku ..... | 6        |
| 2.2 Sambungan Perkerasan .....       | 8        |
| 2.2.1 Sambungan Perlemahan.....      | 8        |
| 2.2.2 Sambungan Pengembangan .....   | 9        |
| 2.2.3 Sambungan Konstruksi .....     | 10       |
| 2.3 Pengendalian Mutu .....          | 11       |

|                                             |           |
|---------------------------------------------|-----------|
| 2.4 Bahan .....                             | 13        |
| 2.4.1 Beton .....                           | 14        |
| 2.4.1.1 Agregat .....                       | 20        |
| 2.4.1.2 Semen .....                         | 24        |
| 2.4.1.3 Air .....                           | 26        |
| 2.4.1.4 Admixture (campuran tambahan) ..... | 27        |
| 2.4.2. Ruji (Dowel) .....                   | 28        |
| 2.4.3 Tie Bar (Batang Pengikat) .....       | 30        |
| 2.4.4 Joint Sealenet .....                  | 33        |
| 2.4.5 Plastik Membran Kedap Air .....       | 34        |
| 2.4.6 Curring Compound .....                | 35        |
| 2.5 Teori Pelaksanaan .....                 | 35        |
| 2.5.1 Lean Concrete .....                   | 35        |
| 2.5.2 Rigid Pavement .....                  | 36        |
| 2.6 Pengendalian Mutu Rigid .....           | 42        |
| 2.6.1 Pengujain Bahan .....                 | 44        |
| 2.6.2 Kuat Lentur Beton .....               | 44        |
| 2.7.2 Kuat Tekan Beton .....                | 45        |
| BAB III Metodologi Penelitian .....         | 47        |
| 3.1 Lokasi dan Waktu Penelitian .....       | 47        |
| 3.2 Sumber Data .....                       | 47        |
| 3.3 Metode .....                            | 48        |
| 3.4 Teknik Pengumpulan Data .....           | 49        |
| 3.5 Bagan Alir Penelitian .....             | 50        |
| <b>BAB IV Pembahasan .....</b>              | <b>51</b> |
| 4.1 Metode Pelaksanaan .....                | 51        |
| 4.1.1 Lean Concrete .....                   | 51        |
| 4.1.2 Perkerasan Rigid Pavement .....       | 52        |

|                                    |           |
|------------------------------------|-----------|
| 4.2 Pengendalian Mutu Bahan .....  | 59        |
| 4.2.1 Lean Concrete .....          | 59        |
| 4.2.1.1 Semen.....                 | 60        |
| 4.2.1.2 Air .....                  | 61        |
| 4.2.1.3 Agregat.....               | 61        |
| 4.2.2 Rigid Paavement .....        | 66        |
| 4.2.2.1 Semen.....                 | 67        |
| 4.2.1.2 Air .....                  | 68        |
| 4.2.1.3 Agregat.....               | 69        |
| 4.2.3 Beton Ready Mix .....        | 78        |
| 4.2.5 Tulangan Rigid Pavement..... | 82        |
| <b>BAB V Penutup .....</b>         | <b>95</b> |
| 5.1 Kesimpulan .....               | 95        |
| 5.2 Saran .....                    | 100       |