

**CYCLIC BEHAVIOR OF PRECAST CONCRETE  
BEAM-COLUMN CONNECTIONS WITH  
PLASTIC HINGE RELOCATION USING  
T-SECTION STEEL INSERT**



**RATTAPON KETIYOT**

**DOCTOR OF ENGINEERING**

**IN CIVIL ENGINEERING**

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**GRADUATE SCHOOL  
CHIANG MAI UNIVERSITY**

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**CYCLIC BEHAVIOR OF PRECAST CONCRETE BEAM-  
COLUMN CONNECTIONS WITH PLASTIC HINGE  
RELOCATION USING T-SECTION STEEL INSERT**

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**RATTAPON KETIYOT**

**A THESIS SUBMITTED TO CHIANG MAI UNIVERSITY IN PARTIAL  
FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF  
DOCTOR OF ENGINEERING  
IN CIVIL ENGINEERING**

**GRUDUATE SCHOOL, CHIANG MAI UNIVERSITY**


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RATTAPON KETIYOT


THIS THESIS HAS BEEN APPROVED TO BE A PARTIAL FULFILLMENT OF  
THE REQUIREMENTS FOR THE DEGREE OF  
DOCTOR OF ENGINEERING  
IN CIVIL ENGINEERING


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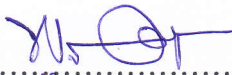
  
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